

Telangana State Council Higher Education

Notations :

- 1.Options shown in **green** color and with  icon are correct.
- 2.Options shown in **red** color and with  icon are incorrect.

Question Paper Name :	TS ICET 2021 20th Aug 2021 Shift 1
Subject Name :	TS ICET 2021
Creation Date :	2021-08-20 14:11:03
Duration :	150
Total Marks :	200
Display Marks:	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console? (SA type of questions will be always auto saved) :	Yes

TS ICET 2021

Group Number :	1
Group Id :	39448435

Group Maximum Duration :	0
Group Minimum Duration :	150
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	200
Is this Group for Examiner? :	No

Analytical Ability

Section Id :	394484103
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	45
Number of Questions to be attempted :	45
Section Marks :	75
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	394484715
Question Shuffling Allowed :	Yes

Question Id : 3944847073 Question Type : COMPREHENSION Sub Question Shuffling Allowed :
Yes Group Comprehension Questions : No
Question Numbers : (1 to 20)

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labelled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

- (a) Mark choice (1) if the statement I alone is sufficient to answer the question.
- (b) Mark choice (2) if the statement II alone is sufficient to answer the question.
- (c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statement alone is sufficient.
- (d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

సూచన: 1 నుండి 20 వరకు ఇచ్చిన ప్రతి ప్రశ్నలోను ఒక ప్రశ్న, దాని క్రింద I, II అని గుర్తులు గల రెండు ప్రవచనాలు దత్తాంశంగా ఇవ్వబడ్డాయి. ఇచ్చిన దత్తాంశాన్ని ఉపయోగించి, ఇచ్చిన ప్రవచనాలు ప్రశ్నకు సమాధానాన్ని ఇచ్చేందుకు పర్యాప్తాలు అవుతాయా లేదా అని మీరు నిర్ధారించాలి. ఈ నిర్ధారణకు క్రింది మార్గదర్శక సూత్రాలు ఉపయోగించి (1) నుండి (4) వరకు సరి అయిన జవాబును ఎంపిక చేయండి.

- (a) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం I మాత్రమే పర్యాప్తమయితే మీ జవాబు (1) గా గుర్తించండి.
- (b) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం II మాత్రమే పర్యాప్తమయితే మీ జవాబు (2) గా గుర్తించండి.
- (c) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనాలు I, II కలిసి పర్యాప్తమయి అందులో ఏ ఒక్కటి కూడా పర్యాప్తం కాకపోతే మీ జవాబు (3) గా గుర్తించండి.
- (d) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనాలు I, II కలిసి కూడా పర్యాప్తం కాక అదనపు దత్తాంశం అవసరమయితే మీ జవాబు (4) గా గుర్తించండి.

Sub questions

Question Number : 1 Question Id : 3944847074 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Find the values of x and y .

x మరియు y ల విలువలు కనుగొనుము.

I) $2x + 3y = -2$

II) $-x - \frac{3y}{2} = 1$

Options :

39448427201. ✖ 1

39448427202. ✖ 2

39448427203. ✖ 3

39448427204. ✔ 4

Question Number : 2 Question Id : 3944847075 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the value of $\cos^2 \theta - \sin^2 \theta$?

$\cos^2 \theta - \sin^2 \theta$ విలువ ఎంత ?

I) $\sin 2\theta = \frac{7}{25}$

II) θ lies in first quadrant

θ మొదటి పాదంలో ఉంటుంది

Options :

39448427205. ✖ 1

39448427206. ✖ 2

39448427207. ✖ 3

39448427208. ✔ 4

Question Number : 3 Question Id : 3944847076 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

A is a non-empty set and R,S are two relations defined on A. Is $R \cap S$ a reflexive relation?

A ఒక శూన్యేతర సమితి మరియు A పై నిర్వచితమైన రెండు సంబంధాలు R,S

లు. $R \cap S$ ఒక పరావర్తనం సంబంధమా ?

I) R and S are reflexive relations

R మరియు S లు పరావర్తన సంబంధాలు

II) R is symmetric relation

R సౌష్ఠ్య సంబంధం

Options :

39448427209. ✓ 1

39448427210. ✗ 2

39448427211. ✗ 3

39448427212. ✗ 4

Question Number : 4 Question Id : 3944847077 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

R is a relation defined on A , where A is the set $\{a, b, c, d, e\}$.

Is R symmetric?

సమితి $A = \{a, b, c, d, e\}$ పై నిర్వచించబడిన ఒక సంబంధం R .

R సౌష్ఠవమా?

I) $R \subseteq A \times A$

II) $R = \{ (x, y) \mid x \text{ is vowel and } y = e \}$

$$R = \{ (x, y) \mid x \text{ అచ్చు, } y = e \}$$

Options :

39448427213. ✖ 1

39448427214. ✔ 2

39448427215. ✖ 3

39448427216. ✖ 4

Question Number : 5 Question Id : 3944847078 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many colors have been used to paint the outer surface of the cube?

ఒక ఘనము యొక్క ఉపరితలాన్ని రంగు వేయుటకు ఉపయోగించిన
రంగులెన్ని?

I) Each face of the cube is painted using only one color, and no two adjacent faces have the same color.

ఆ ఘనము యొక్క ప్రతీ ముఖాన్ని ఒకే రంగుతోనూ, మరియు ఏ రెండు
ఆసన్న భుజాలు ఒకే రంగుతో లేకుండా రంగు వేసిరి.

II) At least two pairs of opposite faces have the same color.

కనీసం రెండు జతల ఎదురెదురు ముఖాలు ఒకే రంగుతో ఉండాలి.

Options :

39448427217. ✖ 1

39448427218. ✖ 2

39448427219. ✖ 3

39448427220. ✔ 4

Question Number : 6 Question Id : 3944847079 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Is 5 a root of the polynomial $p(x)$?

బహుపది $p(x)$ కు 5 ఒక మూలమా?

I) $p(p(p(7))) \neq 0$

II) $p(7) = 21$ and $p(21) = 5$

Options :

39448427221. ✖ 1

39448427222. ✖ 2

39448427223. ✔ 3

39448427224. ✖ 4

Question Number : 7 Question Id : 3944847080 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the value of the positive two digit number?

రెండంకెల ధన పూర్ణాంకం విలువ ఎంత ?

I) The number is six times the sum of its digits.

ఆ సంఖ్య దాని అంకెల మొత్తానికి ఆరు రెట్లు.

II) The number obtained by reversing the digits is less than the original number by nine.

అంకెలను తారుమారు చేయగా వచ్చే సంఖ్య మొదటి సంఖ్య కన్నా తొమ్మిది తక్కువగా ఉంది.

Options :

39448427225. ✓ 1

39448427226. ✗ 2

39448427227. ✗ 3

39448427228. ✗ 4

Question Number : 8 Question Id : 3944847081 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What will be the population in the city A in 2025?

2025లో నగరం-A జనాభా ఎంత ఉండవచ్చు ?

I) In 2020 the population of the city A was 10 million.

2020లో ఆ నగరం-A జనాభా 10 మిలియన్లు.

II) In 2015 the population of the city A was much less than that of 2020.

2015లో ఆ నగరం-A జనాభా 2020 లో కన్నా చాలా తక్కువగా ఉండెను.

Options :

39448427229. ✖ 1

39448427230. ✖ 2

39448427231. ✖ 3

39448427232. ✔ 4

Question Number : 9 Question Id : 3944847082 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If a and b are two digit numbers that share the same digits except in reverse order,

then what is the sum of a and b ?

a , b లు రెండంకెల సంఖ్య లే కాక వాటిలోని అంకెలు ఒకటే కానీ అని

తారుమారైనవి, అప్పుడు a , b ల మొత్తమెంత ?

I) $a - b = 45$

II) The difference between the two digits in each number is 5

ప్రతీ సంఖ్యలో అంకెల భేదం 5

Options :

39448427233. ✖ 1

39448427234. ✖ 2

39448427235. ✖ 3

39448427236. ✔ 4

Question Number : 10 Question Id : 3944847083 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Is $\frac{1}{a_1}, \frac{1}{a_2}, \frac{1}{a_3} \dots$ a Geometric Progression ?

$\frac{1}{a_1}, \frac{1}{a_2}, \frac{1}{a_3} \dots$ ఒక గుణశ్రేణియో ?

I) $a_1, a_2, a_3 \dots$ is an Arithmetic Progression.

$a_1, a_2, a_3 \dots$ ఒక అంశశ్రేణి.

II) $a_1, a_2, a_3 \dots$ is a Geometric Progression..

$a_1, a_2, a_3 \dots$ ఒక గుణశ్రేణి.

Options :

39448427237. ✖ 1

39448427238. ✔ 2

39448427239. ✖ 3

39448427240. ✖ 4

Question Number : 11 Question Id : 3944847084 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What are the values of x, y and z ?

x, y మరియు z ల విలువలు ఎంత?

I) $x : y : z = 1 : 2 : 5$

II) $x + y + z = 64$

Options :

39448427241. ✖ 1

39448427242. ✖ 2

39448427243. ✔ 3

39448427244. ✖ 4

Question Number : 12 Question Id : 3944847085 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which quadrant the angle θ lies ?

కోణం θ ఏ పాదంలో ఉంటుంది?

I) $\tan \frac{\theta}{2} + \cot \frac{\theta}{2} = -3$

II) $\sec \theta > 1$

Options :

39448427245. ✖ 1

39448427246. ✖ 2

39448427247. ✔ 3

39448427248. ✖ 4

Question Number : 13 Question Id : 3944847086 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

If the median of the set S is 19, what is the range of S?

సమితి S యొక్క మధ్యగతము 19 అయినప్పుడు S యొక్క వ్యాప్తి ఎంత ?

I) $S = \{18, 28, 11, x, 15, y\}$

II) Arithmetic mean of the elements of S is 20

సమితి S లోని మూలకాల అంకమధ్యమం 20.

Options :

39448427249. ✖ 1

39448427250. ✖ 2

39448427251. ✔ 3

39448427252. ✖ 4

Question Number : 14 Question Id : 3944847087 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Who is the tallest person among a , b , c ?

a , b , c లలో పొడవైన వ్యక్తి ఎవరు ?

I) a is taller than c

c కన్నా a పొడగరి

II) c is shorter than b

b కన్నా c పొట్టిగా ఉంటాడు

Options :

39448427253. ✖ 1

39448427254. ✖ 2

39448427255. ✖ 3

39448427256. ✔ 4

Question Number : 15 Question Id : 3944847088 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

x and y are integers, x is even and y is odd. Is the integer z odd?

పూర్ణ సంఖ్యలు x, y లలో x సరి సంఖ్య మరియు y బేసి సంఖ్య.
 z బేసి సంఖ్య అవుతుందా ?

I) $xyz + 1$ is odd

$xyz + 1$ బేసి సంఖ్య

II) $xy + yz + zx$ is even

$xy + yz + zx$ సరి సంఖ్య

Options :

39448427257. ✖ 1

39448427258. ✔ 2

39448427259. ✖ 3

39448427260. ✖ 4

Question Number : 16 Question Id : 3944847089 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the area of the square?

చతురస్ర వైశాల్యమెంత ?

I) The ratio of the length of a diagonal and the length of a side is $\sqrt{2} : 1$

చతురస్ర వికర్ణము మరియు భుజాల పొడవుల నిష్పత్తి $\sqrt{2} : 1$

II) The area of the circumcircle of the square is $18\pi \text{ cm}^2$

చతురస్రం యొక్క పరివృత్తపు వైశాల్యం 18π చ. సెం.మీ.

Options :

39448427261. ✖ 1

39448427262. ✔ 2

39448427263. ✖ 3

39448427264. ✖ 4

Question Number : 17 Question Id : 3944847090 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Is the square matrix A non singular ?

చతురస్ర మాతృక A , సాధారణ మాతృక అవుతుందా ?

I) A is a 3×3 matrix

A ఒక 3×3 మాతృక

II) The elements of A are distinct positive integers

A యొక్క మూలకాలు విభిన్న ధన పూర్ణ సంఖ్యలు

Options :

39448427265. ✖ 1

39448427266. ✖ 2

39448427267. ✖ 3

39448427268. ✔ 4

Question Number : 18 Question Id : 3944847091 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the length of the rectangle R ?

దీర్ఘ చతురస్రం R పొడవు ఎంత ?

I) Area of the rectangle R is 1200 sq. ft.

దీర్ఘ చతురస్రం R వైశాల్యం 1200 చ.అ.

II) The cost of fencing the plot R along the side is Rs.56000 at the rate of Rs.400 per foot.

క్షేత్రం R చుట్టూ భుజాల వెంబడి కంచె వేయుటకు ప్రతి అడుగుకు రూ. 400 చొప్పున అయ్యే ఖర్చు 56000 రూపాయలు.

Options :

39448427269. ✖ 1

39448427270. ✖ 2

39448427271. ✔ 3

39448427272. ✖ 4

Question Number : 19 Question Id : 3944847092 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If $x \neq 0$, is $\frac{1}{x} > 1$?

$x \neq 0$ అయినప్పుడు, $\frac{1}{x} > 1$ అవుతుందా?

I) $\frac{y}{x} > y$

II) $x^3 > x^2$

Options :

39448427273. ✖ 1

39448427274. ✔ 2

39448427275. ✖ 3

39448427276. ✖ 4

Question Number : 20 Question Id : 3944847093 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A, B, C, D are points on the circumference of a circle. What is the area of quadrilateral $ABCD$?

ఒక వృత్త పరిధిపై A, B, C, D లు బిందువులు అయినప్పుడు, చతుర్భుజం $ABCD$ యొక్క వైశాల్యం ఎంత?

I) Radius of the circle is $\frac{\sqrt{2}}{2}$

వృత్త వ్యాసార్థం $\frac{\sqrt{2}}{2}$

II) $ABCD$ is a square

$ABCD$ ఒక చతురస్రం

Options :

39448427277. ✖ 1

39448427278. ✖ 2

39448427279. ✔ 3

39448427280. ✖ 4

Sub-Section Number :

2

Sub-Section Id :

394484716

Question Shuffling Allowed :

Yes

Question Number : 21 Question Id : 3944847094 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

Island : Water :: Oasis : _____

ద్వీపం : నీరు :: ఒయాసిస్ : _____

1) Mountain

పర్వతం

2) Forest

అడవి

3) Desert

ఎడారి

4) Ocean

సముద్రం

Options :

39448427281. ✖ 1

39448427282. ✖ 2

39448427283. ✔ 3

39448427284. ✖ 4

Question Number : 22 Question Id : 3944847095 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

If A, N, G, E, L are removed from English alphabet, then which letter occurs in 13th place from the end?

ఆంగ్ల వర్ణమాలలో A, N, G, E, L లను తొలిగిస్తే చివరి నుండి 13వ స్థానములో ఉన్న అక్షరము ఏది ?

1) R

2) N

3) M

4) O

Options :

39448427285. ✖ 1

39448427286. ✖ 2

39448427287. ✔ 3

39448427288. ✖ 4

Question Number : 23 Question Id : 3944847096 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

How many consonants are there between *e* and *u* in English alphabet?

ఆంగ్ల వర్ణమాలలో *e* మరియు *u* మధ్యలో ఉండే హల్లులెన్ని ?

1) 13

2) 15

3) 14

4) 12

Options :

39448427289. ✓ 1

39448427290. ✗ 2

39448427291. ✗ 3

39448427292. ✗ 4

Question Number : 24 Question Id : 3944847097 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

POST : VUYZ :: CPME : ____

- 1) IVSK
- 2) IUKT
- 3) IVSJ
- 4) IVSO

Options :

39448427293. ✓ 1

39448427294. ✗ 2

39448427295. ✗ 3

39448427296. ✗ 4

Question Number : 25 Question Id : 3944847098 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

D C A B, _____, A B D C, B D C A

- 1) ABCD
- 2) ACDB
- 3) CABD
- 4) DBAC

Options :

39448427297. ✖ 1
39448427298. ✖ 2
39448427299. ✔ 3
39448427300. ✖ 4

Question Number : 26 Question Id : 3944847099 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

TLRIA : WOULD :: BEYOND : _____

- 1) DGAQPF
2) EHBRQG
3) FICSRH
4) ADXNME

Options :

39448427301. ✖ 1
39448427302. ✔ 2
39448427303. ✖ 3
39448427304. ✖ 4

Question Number : 27 Question Id : 3944847100 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation :

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

L ⊗ N ⊗ P : 12 ⊗ 14 ⊗ 16 :: U ⊗ W ⊗ Y: _____

1) 19 ⊗ 21 ⊗ 23

2) 21 ⊗ 23 ⊗ 25

3) 22 ⊗ 24 ⊗ 26

4) 25 ⊗ 1 ⊗ 3

Options :

39448427305. ✖ 1

39448427306. ✔ 2

39448427307. ✖ 3

39448427308. ✖ 4

Question Number : 28 Question Id : 3944847101 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

DECA : _____ :: MORE : OSXM

- 1) FIJK
- 2) FIJJ
- 3) FIJJ
- 4) FIJL

Options :

39448427309. ✖ 1

39448427310. ✖ 2

39448427311. ✔ 3

39448427312. ✖ 4

Question Number : 29 Question Id : 3944847102 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

RAT : OXQ :: OLX : _____

- 1) LIX
- 2) LIW
- 3) LIU
- 4) LIV

Options :

39448427313. ✖ 1

39448427314. ✖ 2

39448427315. ✔ 3

39448427316. ✖ 4

Question Number : 30 Question Id : 3944847103 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving

సమస్య సాధన

Sequence and Series

అనుక్రమాలు, శ్రేణులు

30 : 42 :: 56 : _____

- 1) 71
- 2) 72
- 3) 75
- 4) 104

Options :

39448427317. ✖ 1

39448427318. ✔ 2

39448427319. ✖ 3

39448427320. ✖ 4

Sub-Section Number :

3

Sub-Section Id :

394484717

Question Shuffling Allowed :

Yes

Question Number : 31 Question Id : 3944847104 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

- 1) 9
- 2) 25
- 3) 49
- 4) 81

Options :

39448427321. ✖ 1

39448427322. ✖ 2

39448427323. ✖ 3

39448427324. ✔ 4

Question Number : 32 Question Id : 3944847105 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

- 1) (3, 5, 34)
- 2) (5, 7, 74)
- 3) (7, 9, 130)
- 4) (11, 13, 265)

Options :

39448427325. ✖ 1

39448427326. ✖ 2

39448427327. ✖ 3

39448427328. ✔ 4

Question Number : 33 Question Id : 3944847106 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

1) DOG

కుక్క

2) HEN

కోడి

3) CAT

పిల్లి

4) RAT

ఎలుక

Options :

39448427329. ✖ 1

39448427330. ✔ 2

39448427331. ✖ 3

39448427332. ✖ 4

Question Number : 34 Question Id : 3944847107 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

- 1) UIRTAG
- 2) RTAIS
- 3) EUTLF
- 4) ADROI

Options :

39448427333. ✖ 1

39448427334. ✖ 2

39448427335. ✖ 3

39448427336. ✔ 4

Question Number : 35 Question Id : 3944847108 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

1) $\sqrt{5 + 2\sqrt{6}}$

2) $\sqrt{6 + 2\sqrt{5}}$

3) $\sqrt{7 + 2\sqrt{10}}$

4) $\sqrt{11 + 2\sqrt{77}}$

Options :

39448427337. ✖ 1

39448427338. ✖ 2

39448427339. ✖ 3

39448427340. ✔ 4

Sub-Section Number :

4

Sub-Section Id :

394484718

Question Shuffling Allowed :

Yes

Question Number : 36 Question Id : 3944847109 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$10_2, 100_2, 110_2, 1000_2, 1010_2, \underline{\hspace{2cm}}$

1) 1011_2

2) 1100_2

3) 1110_2

4) 1111_2

Options :

39448427341. ✖ 1

39448427342. ✔ 2

39448427343. ✖ 3

39448427344. ✖ 4

Question Number : 37 Question Id : 3944847110 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$a^{1/z}, b^{1/c}, c^{1/x}, d^{1/d}, \underline{\hspace{2cm}}$

1) $e^{1/e}$

2) $e^{1/w}$

3) $w^{1/e}$

4) $e^{1/v}$

Options :

39448427345. ✖ 1

39448427346. ✖ 2

39448427347. ✖ 3

39448427348. ✔ 4

Question Number : 38 Question Id : 3944847111 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$$1\frac{8}{9}, 2\frac{2}{9}, 2\frac{5}{9}, 2\frac{8}{9}, 3\frac{2}{9}, \text{---}$$

1) $3\frac{1}{3}$

2) $3\frac{4}{9}$

3) $3\frac{7}{9}$

4) $3\frac{5}{9}$

Options :

39448427349. ✖ 1

39448427350. ✖ 2

39448427351. ✖ 3

39448427352. ✔ 4

Question Number : 39 Question Id : 3944847112 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

1, 5, 9, 15, _____

1) 19

2) 20

3) 21

4) 22

Options :

39448427353. ✖ 1

39448427354. ✖ 2

39448427355. ✔ 3

39448427356. ✖ 4

Question Number : 40 Question Id : 3944847113 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

3, 5, _____, 17, 33, _____

1) 9, 65

2) 8, 65

3) 9, 64

4) 8, 66

Options :

39448427357. ✓ 1

39448427358. ✗ 2

39448427359. ✗ 3

39448427360. ✗ 4

Question Number : 41 Question Id : 3944847114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$$\frac{3}{8}, \frac{15}{24}, \frac{35}{48}, \text{---}$$

1) $\frac{45}{64}$

2) $\frac{53}{70}$

3) $\frac{63}{80}$

4) $\frac{75}{96}$

Options :

39448427361. ✖ 1

39448427362. ✖ 2

39448427363. ✔ 3

39448427364. ✖ 4

Question Number : 42 Question Id : 3944847115 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

525, 646, 477, 702, _____, 774

1) 413

2) 448

3) 514

4) 538

Options :

39448427365. ✓ 1

39448427366. ✖ 2

39448427367. ✖ 3

39448427368. ✖ 4

Question Number : 43 Question Id : 3944847116 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

36, 150, 392, 1452, _____

1) 2351

2) 2366

3) 2197

4) 2258

Options :

39448427369. ✖ 1

39448427370. ✔ 2

39448427371. ✖ 3

39448427372. ✖ 4

Question Number : 44 Question Id : 3944847117 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

$$\frac{3}{5}, \frac{8}{10}, \frac{15}{17}, \frac{24}{26}, \frac{35}{37}, \text{---}$$

1) $\frac{24}{25}$

2) $\frac{23}{25}$

3) $\frac{22}{25}$

4) $\frac{21}{25}$

Options :

39448427373. ✓ 1

39448427374. ✗ 2

39448427375. ✗ 3

39448427376. ✗ 4

Question Number : 45 Question Id : 3944847118 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక : 36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

2500, 250, 3750, 187.5, _____

1) 1875.0

2) 2812.5

3) 3750.0

4) 4687.5

Options :

39448427377. ✖ 1

39448427378. ✖ 2

39448427379. ✖ 3

39448427380. ✔ 4

Sub-Section Number :

5

Sub-Section Id :

394484719

Question Shuffling Allowed :

Yes

Question Id : 3944847119 Question Type : COMPREHENSION Sub Question Shuffling Allowed :

Yes Group Comprehension Questions : No

Question Numbers : (46 to 48)

(b) Data Analysis

(Marks : 10)

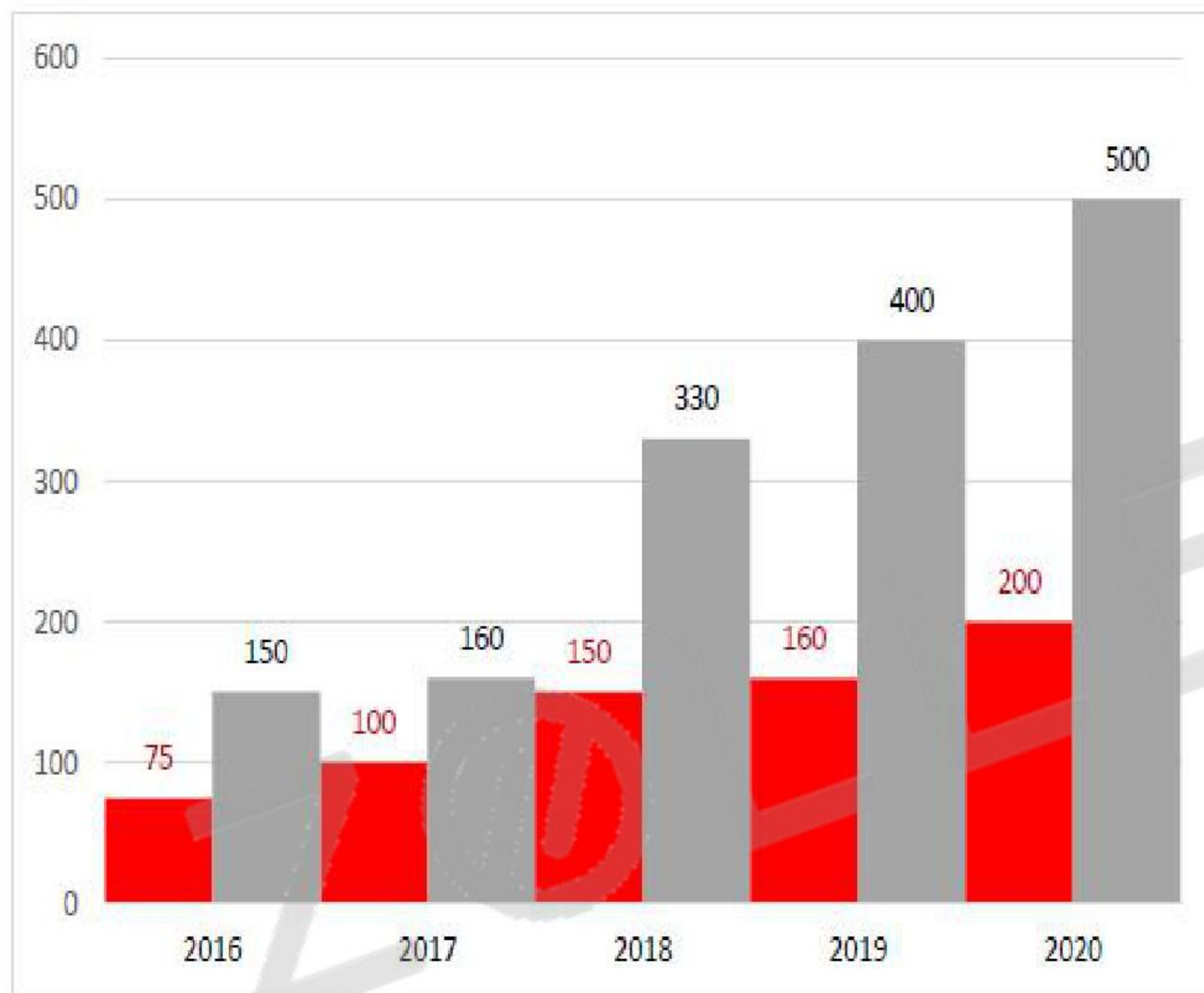
దత్తాంశ విశ్లేషణ

(మార్కులు : 10)

The following chart indicates biscuit tins produced and their value in 2016 to 2020.

Based on the information answer questions 46 to 48.

ఈ క్రింది కమ్చీ చిత్రంలో 2016 నుండి 2020 వరకు ఉత్పత్తి చేయబడిన బిస్కట్ డబ్బాల సంఖ్యను మరియు వాటి విలువను ఇవ్వబడినది. ఈ సమాచారం ఆధారంగా 46 నుండి 48 వరకు గల ప్రశ్నలకు సమాధానాలిమ్ము.



Year సంవత్సరము	2016	2017	2018	2019	2020
Biscuit tins in lakhs బిస్కట్ డబ్బాలు (లక్షలలో)	75	100	150	160	200
Value in crores విలువ (రూ. కోట్లలో)	150	160	330	400	500

Sub questions

Question Number : 46 Question Id : 3944847120 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which year the value of a biscuit tin is minimum?

ఏ సంవత్సరంలో బిస్కట్ డబ్బా విలువ అత్యల్పం గా ఉంది?

1) 2016

2) 2017

3) 2018

4) 2020

Options :

39448427381. ✖ 1

39448427382. ✔ 2

39448427383. ✖ 3

39448427384. ✖ 4

Question Number : 47 Question Id : 3944847121 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The difference of cost per tin in the year 2018 and 2020, in rupees, is

2020 మరియు 2018 సంవత్సరాలలో ఒక డబ్బా ధర లో ఉన్న తేడా

1) 30

2) 300

3) 3

4) 0.3

Options :

39448427385. ✓ 1

39448427386. ✖ 2

39448427387. ✖ 3

39448427388. ✖ 4

Question Number : 48 Question Id : 3944847122 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The percentage increase in the cost per tin from 2016 to 2020 is

2016 నుండి 2020 సంవత్సరం వరకు ఒక డబ్బా ధర లో పెరుగుదల శాతము

1) 25

2) 50

3) 75

4) 150

Options :

39448427389. ✓ 1

39448427390. ✖ 2

39448427391. ✖ 3

39448427392. ✖ 4

Sub-Section Number :

6

Sub-Section Id :

394484720

Question Shuffling Allowed :

Yes

Question Id : 3944847123 Question Type : COMPREHENSION Sub Question Shuffling Allowed :

Yes Group Comprehension Questions : No

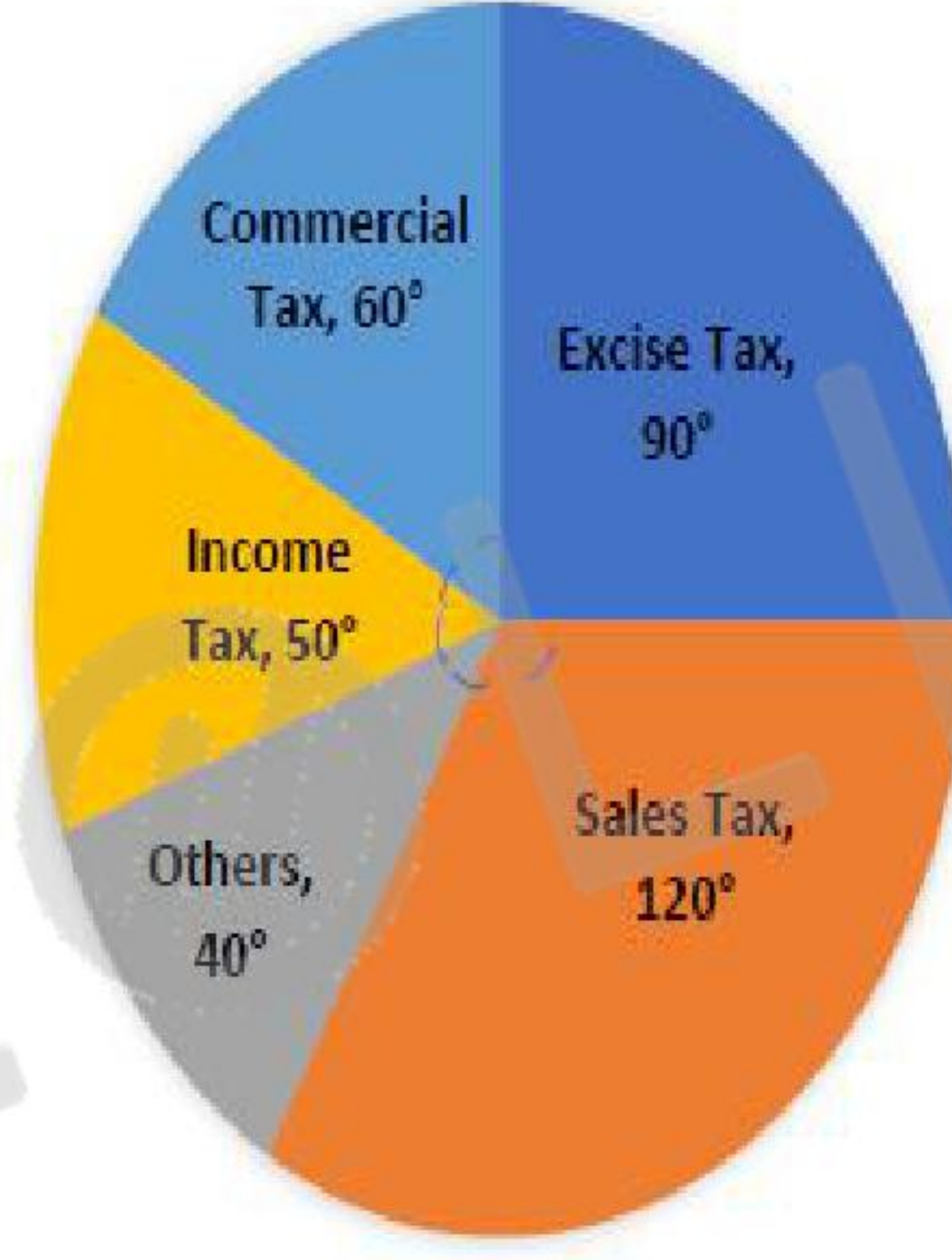
Question Numbers : (49 to 53)

(b) Data Analysis
దత్తాంశ విశ్లేషణ

(Marks : 10)
(మార్కులు : 10)

The following Pie chart shows the income of a state under different heads. Based on the information given in the chart answer questions from 49 to 53.

విభిన్న పద్ధుల క్రింద ఒక రాష్ట్రానికి వచ్చే ఆదాయాన్ని ఈ క్రింద పీ చిత్రములో చూపబడినది. ఈ సమాచారం ఆధారంగా 49 నుండి 53 వరకు గల ప్రశ్నలకు సమాధానాలిమ్ము.



Excise Tax	
ఎక్సైజ్ పన్ను	90°
Sales Tax	
అమ్మకం పన్ను	120°
Others	
ఇతరములు	40°
Income Tax	
ఆదాయపు పన్ను	50°
Commercial Tax	
వాణిజ్య పన్ను	60°

Sub questions

Question Number : 49 Question Id : 3944847124 Question Type : MCQ Option :

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the Excise tax collected in that year is Rs.1250 crores then sales tax collected in that year in rupees (in crores)

ఎక్సయిజ్ పన్ను ద్వారా రూ. 1250 కోట్లు సేకరించబడిన సంవత్సరంలో అమ్మకం పన్ను రూపంలో సేకరించబడిన ఆదాయం (కోట్ల రూపాయలలో)

1) $1450\frac{1}{3}$

2) $1666\frac{2}{3}$

3) $1742\frac{1}{3}$

4) $1820\frac{2}{3}$

Options :

39448427393. ✖ 1

39448427394. ✔ 2

39448427395. ✖ 3

39448427396. ✖ 4

Question Number : 50 Question Id : 3944847125 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The percentage of income tax in the total income of the state, corrected to two decimal places is

రాష్ట్రం యొక్క మొత్తం ఆదాయంలో ఆదాయపు పన్ను శాతం రెండు దశాంశ స్థానాలకు సవరించినపుడు

- 1) 13.89
- 2) 12.98
- 3) 13.98
- 4) 12.89

Options :

- 39448427397. ✓ 1
- 39448427398. ✗ 2
- 39448427399. ✗ 3
- 39448427400. ✗ 4

Question Number : 51 Question Id : 3944847126 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

If the Income Tax collected in the year is Rs.175 crores, then the total income of the state in that year (Rupees in crores) is

ఆదాయపు పన్ను ద్వారా రూ. 175 కోట్లు సేకరించినట్టి సంవత్సరంలో, రాష్ట్రం యొక్క మొత్తం ఆదాయం (కోట్ల రూపాయలలో)

1) 1240

2) 1250

3) 1260

4) 1275

Options :

39448427401. ✖ 1

39448427402. ✖ 2

39448427403. ✔ 3

39448427404. ✖ 4

Question Number : 52 Question Id : 3944847127 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The percentage of the total income collected through commercial tax, income tax and others together in the sales tax collected in that year is

ఒకానొక సంవత్సరంలో వాణిజ్య పన్ను, ఆదాయపు పన్ను మరియు ఇతరముల ద్వారా సేకరించబడిన ఆదాయం, అదే సంవత్సరంలో అమ్మకం పన్ను ద్వారా సేకరించబడిన ఆదాయంలో ఎంత శాతం

1) 80

2) 90

3) 105

4) 125

Options :

39448427405. ✖ 1

39448427406. ✖ 2

39448427407. ✖ 3

39448427408. ✔ 4

Question Number : 53 Question Id : 3944847128 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the total income of the state is Rs.12000 crores, then the difference of commercial tax and income tax in that year (Rupees in crores)

రాష్ట్రం మొత్తం ఆదాయం రూ. 1200 కోట్లు గా ఉన్న సంవత్సరంలో వాణిజ్య పన్ను మరియు అమ్మకం పన్నుల ద్వారా లభించిన ఆదాయం లలో భేదం (కోట్ల రూపాయలలో)

1) 2000

2) $666\frac{2}{3}$

3) $333\frac{1}{3}$

4) 625

Options :

39448427409. ✖ 1

39448427410. ✖ 2

39448427411. ✔ 3

39448427412. ✖ 4

Sub-Section Number :

7

Sub-Section Id :

394484721

Question Shuffling Allowed :

Yes

Question Id : 3944847129 Question Type : COMPREHENSION Sub Question Shuffling Allowed :

Yes Group Comprehension Questions : No

Question Numbers : (54 to 55)

(b) Data Analysis

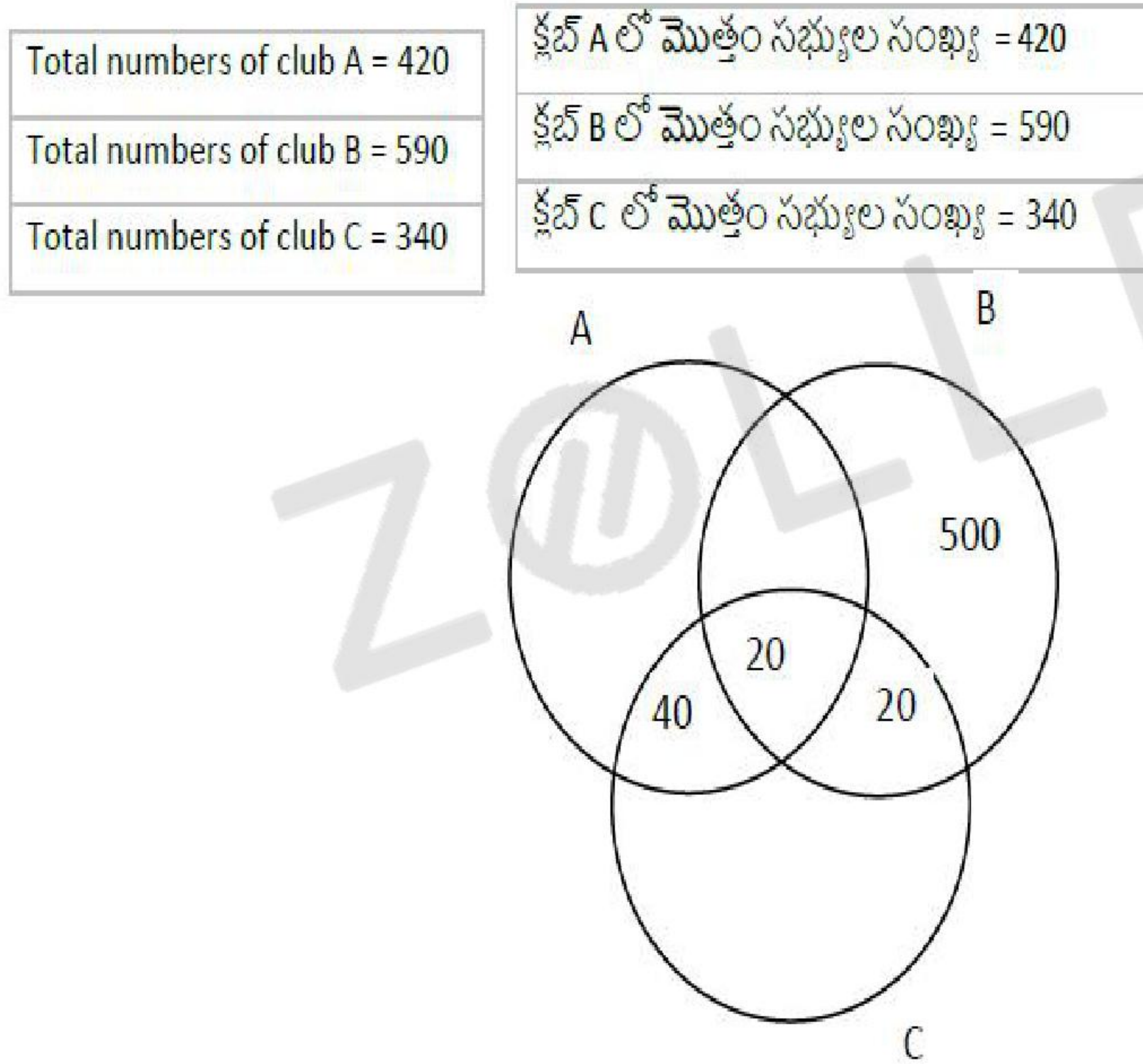
(Marks : 10)

దత్తాంశ విశ్లేషణ

(మార్కులు : 10)

The following Venn diagram represents the 1200 employees of a company. Each of the employee is a member of at least one of three clubs A, B and C. Using the given data, answer the questions 54 and 55.

ఈ క్రింద ఇవ్వబడిన వెన్ చిత్రము ఒక సంస్థలోని 1200 మంది ఉద్యోగులను సూచిస్తుంది. ప్రతి ఉద్యోగి A, B, C అనే క్లబ్ లలో కనీసం ఒక దానిలో సభ్యత్వాన్ని కలిగి ఉంటాడు. ఈ దత్తాంశాన్ని ఉపయోగించి 54 మరియు 55 ప్రశ్నలకు సమాధానములు గుర్తించుము.



Sub questions

Question Number : 54 Question Id : 3944847130 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

How many employees are members of club C only?

క్లబ్ C లో మాత్రమే సభ్యత్వం ఉన్న ఉద్యోగుల సంఖ్య ఎంత?

1) 250

2) 240

3) 180

4) 260

Options :

39448427413. ✖ 1

39448427414. ✖ 2

39448427415. ✖ 3

39448427416. ✔ 4

Question Number : 55 Question Id : 3944847131 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many employees are not members of club B?

క్లబ్ B లో సభ్యత్వం లేని ఉద్యోగుల సంఖ్య ఎంత?

1) 340

2) 610

3) 630

4) 290

Options :

39448427417. ✖ 1

39448427418. ✔ 2

39448427419. ✖ 3

39448427420. ✖ 4

Sub-Section Number : 8

Sub-Section Id : 394484722

Question Shuffling Allowed : Yes

Question Id : 3944847132 Question Type : COMPREHENSION Sub Question Shuffling Allowed :

Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

(c) Coding and Decoding Problems

(Marks: 10)

కోడింగ్, డీకోడింగ్ సమస్యలు

(మార్కులు : 10)

The 26 letters of the English alphabet are written around a circle in anticlockwise direction. Then each vowel is coded as the 2nd vowel from it (for example, A is coded as I, E is coded as O etc) and each consonant is coded as 4th consonant from it (for example, B is coded as G, C is coded as H etc). For decoding reverse process is adopted. Based on this information, answer the questions from 56 to 60

ఆంగ్ల వర్ణమాలలోని 26 అక్షరాలను ఒక వృత్తం చుట్టూ అపసవ్యదిశలో వ్రాయబడినవి. ప్రతీ అచ్చు దానికి తర్వాత ఉన్న 2వ అచ్చు కు కోడ్ చేయబడింది. (ఉదాహరణకు A ను I కి, E ను O కి మొ.), మరియు ప్రతీ హల్లు ను దాని తర్వాత 4వ హల్లుకు కోడ్ చేయబడినది (ఉదాహరణకు B ను G కు, C ను H కు మొ). డీ కోడింగ్ కు విలోమ పద్ధతి పాటించాలి. ఈ సమాచారం ఆధారంగా 56 నుండి 60 వరకు గల ప్రశ్నలకు సమాధానాలిమ్ము.

Sub questions

Question Number : 56 Question Id : 3944847133 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The letter that is coded as T is

T గా కోడ్ చేయబడిన అక్షరం

1) N

2) P

3) Q

4) R

Options :

39448427421. ✖ 1

39448427422. ✔ 2

39448427423. ✖ 3

39448427424. ✖ 4

Question Number : 57 Question Id : 3944847134 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The code word for WORD is _____

WORD యొక్క కోడ్ పదం

- 1) ZUVH
- 2) ZUWJ
- 3) BAWJ
- 4) BAVH

Options :

39448427425. ✖ 1

39448427426. ✖ 2

39448427427. ✔ 3

39448427428. ✖ 4

Question Number : 58 Question Id : 3944847135 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The code word for TABLET is

TABLET యొక్క కోడ్ పదం

- 1) XIFPOX
- 2) YIFPOY
- 3) XIGQOX
- 4) YIGQOY

Options :

39448427429. ✖ 1

39448427430. ✖ 2

39448427431. ✖ 3

39448427432. ✔ 4

Question Number : 59 Question Id : 3944847136 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The string of letters that is coded as PRIME is

PRIME గా కోడ్ చేయబడిన అక్షర సమూహం

1) LNAHU

2) KMAEU

3) KMAHU

4) LNAEU

Options :

39448427433. ✖ 1

39448427434. ✖ 2

39448427435. ✔ 3

39448427436. ✖ 4

Question Number : 60 Question Id : 3944847137 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The string of letters that is coded as TSICET is

TSICET గా కోడ్ చేయబడిన అక్షర సమూహం

- 1) PNAXUP
- 2) PMAYUP
- 3) QMAXUQ
- 4) QMAYUQ

Options :

39448427437. ✓ 1

39448427438. ✗ 2

39448427439. ✗ 3

39448427440. ✗ 4

Sub-Section Number :

9

Sub-Section Id :

394484723

Question Shuffling Allowed :

Yes

Question Number : 61 Question Id : 3944847138 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(c) Coding and Decoding Problems

కోడింగ్, డీకోడింగ్ సమస్యలు

(Marks: 10)

(మార్కులు : 10)

If MASK is coded as HVNF, then the code for GLOVE is

MASK ను HVNF గా కోడ్ చేయబడినపుడు, GLOVE యొక్క కోడ్

- 1) BGKPY
- 2) BGJQZ
- 3) CHJQZ
- 4) CHKPY

Options :

39448427441. ✖ 1

39448427442. ✔ 2

39448427443. ✖ 3

39448427444. ✖ 4

Question Number : 62 Question Id : 3944847139 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(c) Coding and Decoding Problems

కోడింగ్, డీకోడింగ్ సమస్యలు

(Marks: 10)

(మార్కులు : 10)

In a certain code language, if the word REJECTION is coded as SGMIHZPWW, then

how is the word MECHANIC coded in that language?

ఒకానొక కోడ్ భాష లో REJECTION పదాన్ని SGMIHZPWW గా కోడ్ చేయబడినది.

అదే భాష లో MECHANIC యొక్క కోడ్ పదం

1) NGFLFTP

2) NGPLFTP

3) NGFKFTP

4) NGPTPKIL

Options :

39448427445. ✓ 1

39448427446. ✗ 2

39448427447. ✗ 3

39448427448. ✗ 4

Question Number : 63 Question Id : 3944847140 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(c) Coding and Decoding Problems

కోడింగ్, డీకోడింగ్ సమస్యలు

(Marks: 10)

(మార్కులు : 10)

If TRIGONOMETRY is coded as UTLKTTVUNDCK, then TRIANGLE will be coded as

TRIGONOMETRY ని UTLKTTVUNDCK గా కోడ్ చేసినప్పుడు TRIANGLE ను ఈ క్రింది విధంగా కోడ్ చేస్తారు

- 1) UTLSESMN
- 2) UTLESSMN
- 3) UTLSEMSM
- 4) UTLESMSM

Options :

39448427449. ✖ 1

39448427450. ✖ 2

39448427451. ✖ 3

39448427452. ✔ 4

Question Number : 64 Question Id : 3944847141 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(c) Coding and Decoding Problems
కోడింగ్, డీకోడింగ్ సమస్యలు

(Marks: 10)
(మార్కులు : 10)

If ISOLATED is coded as EOKHWPAZ, then which word is coded
as LKOEPEA ?

ISOLATED ను EOKHWPAZ గా కోడ్ చేయబడినపుడు LKOEPEA గా కోడ్
చేయబడిన పదం ఏది ?

- 1) PRESSURE
- 2) PUNCTURE
- 3) POSITIVE
- 4) POISSON

Options :

39448427453. ✖ 1

39448427454. ✖ 2

39448427455. ✔ 3

39448427456. ✖ 4

Question Number : 65 Question Id : 3944847142 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(c) Coding and Decoding Problems
కోడింగ్, డీకోడింగ్ సమస్యలు

(Marks: 10)
(మార్కులు : 10)

If ENGLAND is coded as 1234526 and FRANCE is coded as 785291 then the code for GREECE is

ENGLAND ను 1234526 గాను, మరియు FRANCE ను 785291 గాను కోడ్ చేయబడినపుడు, GREECE యొక్క కోడ్

- 1) 572262
- 2) 493373
- 3) 371181
- 4) 381191

Options :

39448427457. ✖ 1

39448427458. ✖ 2

39448427459. ✖ 3

39448427460. ✔ 4

Sub-Section Number : 10

Sub-Section Id : 394484724

Question Shuffling Allowed : Yes

Question Number : 66 Question Id : 3944847143 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

If today is Sunday what day it was 126 days ago?

ఈ రోజు ఆదివారం అయితే, 126 రోజుల క్రితం అది ఏ రోజు అయి ఉండేను?

- | | |
|-------------|-----------|
| 1) Sunday | ఆదివారం |
| 2) Saturday | శనివారం |
| 3) Friday | శుక్రవారం |
| 4) Monday | సోమవారం |

Options :

39448427461. ✓ 1

39448427462. ✗ 2

39448427463. ✗ 3

39448427464. ✗ 4

Question Number : 67 Question Id : 3944847144 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

If the length of the minute hand of a clock is 14 cm, then the area swept by the minute hand in 15 minutes is (in sq. cm)

ఒక గడియారంలో నిమిషాలముల్లు పొడవు 14 సెం.మీ. ఐతే, ఆ నిమిషాల ముల్లు 15 నిమిషాలలో చుట్టొచ్చిన వైశాల్యం? (చ.సెం.మీ.)

- 1) 154
- 2) 164
- 3) 184
- 4) 210

Options :

39448427465. ✓ 1

39448427466. ✗ 2

39448427467. ✗ 3

39448427468. ✗ 4

Question Number : 68 Question Id : 3944847145 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

The smaller angle between the two hands of a clock at 3.49 pm, in degrees is

ఒక గడియారంలో 3.49 pm వద్ద రెండు ముల్లల మధ్య కనిష్ఠ కోణం డిగ్రీలలో

1) $165\frac{1}{2}$

2) $169\frac{1}{2}$

3) $175\frac{1}{2}$

4) $179\frac{1}{2}$

Options :

39448427469. ✖ 1

39448427470. ✖ 2

39448427471. ✖ 3

39448427472. ✔ 4

Question Number : 69 Question Id : 3944847146 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

A man goes to a park and sees a girl who he recognised to be his relative. The girl was the daughter of his sister's husband's wife. How is the girl related to the man?

పార్కులో ఒక వ్యక్తి ఒక అమ్మాయిని అతని బంధువుగా గుర్తిస్తాడు. ఆ అమ్మాయి అతని సోదరి భర్త భార్య యొక్క కూతురు. ఐతే, ఆ వ్యక్తి తో ఆ అమ్మాయికి ఏ విధమైన సంబంధాన్ని కలిగి ఉంది ?

- | | |
|------------------|----------|
| 1) Sister | సోదరి |
| 2) Niece | మేనకోడలు |
| 3) Wife | భార్య |
| 4) Sister-in-law | కోడలు |

Options :

39448427473. ✖ 1

39448427474. ✔ 2

39448427475. ✖ 3

39448427476. ✖ 4

Question Number : 70 Question Id : 3944847147 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

Two local trains arrived at a station at 12.30 pm and 2.40 pm each running late by 20 minutes and 40 minutes respectively. What was the difference (in minutes) in their original scheduled times of arrivals?

వరుసగా 20ని. , 40ని., ఆలస్యంగా రెండు స్థానిక రైళ్ళు ఒక స్టేషనుకు మ. 12.30 మరియు మ. 2.40కి చేరుకున్నాయి. అవి నిర్దారిత వేళలకు చేరుకోవాల్సిన సమయాల భేదం (నిమిషాల్లో) ఎంత ఉండెను?

- 1) 150
- 2) 130
- 3) 120
- 4) 110

Options :

- 39448427477. ✖ 1
- 39448427478. ✖ 2
- 39448427479. ✖ 3
- 39448427480. ✔ 4

Question Number : 71 Question Id : 3944847148 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

A person comes for a job interview at 10.20 am, which was 40 minutes before the scheduled time which, in fact, was already delayed by 20 minutes. What was the original scheduled time of the interview?

నిర్దేశిత సమయముకన్న 20 నిమిషాలు ఆలస్యంగా ప్రారంభమయిన ఒక మౌఖిక పరీక్ష కొరకు 40 నిమిషాలు ముందుగా, ఉదయం 10. 20 ని. లకు ఒక వ్యక్తి హాజరయినాడు. మౌఖిక పరీక్ష యొక్క అసలైన నిర్దేశిత సమయం ఎంత ?

- 1) 10.40 am
- 2) 10.50 am
- 3) 10.55 am
- 4) 11.00 am

Options :

39448427481. ✓ 1

39448427482. ✗ 2

39448427483. ✗ 3

39448427484. ✗ 4

Question Number : 72 Question Id : 3944847149 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

Five friends A, B, C, D and E are posing for a photograph standing in a line in some order such that

- i) D is to the right of E
- ii) B is to the left of E and to the right of A
- iii) D is to the left of C

What is their order of standing ?

ఐదుగురు మిత్రులు A, B, C, D మరియు E లు ఏదో ఒక క్రమంలో ఫోటో తీయించుకోవడానికి ఒక వరుసలో ఏ విధంగా నిలబడి ఉన్నారంటే

- i) E కు కుడివైపున D ,
- ii) E కు ఎడమవైపున మరియు A కు కుడివైపున B ఉన్నాడు
- iii) C కు ఎడమవైపున D ఉన్నాడు

వారు ఏ క్రమంలో నిలబడి ఉన్నారు?

- 1) A, D, B, E, C
- 2) A, E, B, D, C
- 3) C, D, E, B, A
- 4) A, B, E, D, C

Options :

39448427485. ✖ 1

39448427486. ✖ 2

39448427487. ✖ 3

39448427488. ✔ 4

Question Number : 73 Question Id : 3944847150 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

If $24 \& 32 = -2$ and $52 \& 68 = -4$, then $76 \& 36 =$

$24 \& 32 = -2$ మరియు $52 \& 68 = -4$ అయితే, అప్పుడు $76 \& 36 =$

1) 10

2) 18

3) 24

4) 48

Options :

39448427489. ✓ 1

39448427490. ✗ 2

39448427491. ✗ 3

39448427492. ✗ 4

Question Number : 74 Question Id : 3944847151 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

For $a, b \in \mathbb{R}$, define $a * b = a + b + ab$. Then $5 * (-5 * 6) =$

$a, b \in \mathbb{R}$, లకు $a * b = a + b + ab$ గా నిర్వచించబడింది. అయితే, $5 * (-5 * 6) =$

1) -169

2) -168

3) -170

4) -171

Options :

39448427493. ✓ 1

39448427494. ✗ 2

39448427495. ✗ 3

39448427496. ✗ 4

Question Number : 75 Question Id : 3944847152 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(d) Date, Time & Arrangement Problems

(Marks : 10)

తేదీ, సమయం, అమరికల సమస్యలు

(మార్కులు : 10)

If $a * b = (a + b)^2 - (a - b)^2$, then $((1 * 2) * 3) * 4 =$

$a * b = (a + b)^2 - (a - b)^2$ అయితే, అప్పుడు $((1 * 2) * 3) * 4 =$

1) 1366

2) 768

3) 1536

4) 683

Options :

39448427497. ✖ 1

39448427498. ✖ 2

39448427499. ✔ 3

39448427500. ✖ 4

Mathematical Ability

Section Id :	394484104
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	75
Number of Questions to be attempted :	75
Section Marks :	75
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1

Sub-Section Id :

394484725

Question Shuffling Allowed :

Yes

Question Number : 76 Question Id : 3944847153 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If $x^{x\sqrt{x}} = (x\sqrt{x})^x$, then $x =$

$x^{x\sqrt{x}} = (x\sqrt{x})^x$, అయితే $x =$

1) 1

2) $\frac{3}{4}$

3) $\frac{3}{2}$

4) $\frac{9}{4}$

Options :

39448427501. ✖ 1

39448427502. ✖ 2

39448427503. ✖ 3

39448427504. ✔ 4

Question Number : 77 Question Id : 3944847154 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation :

ZOLLEGE.in

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If $3^x = 9^y = 27^z$ and $xyz = 2304$, then $3x + 2y + z =$

$3^x = 9^y = 27^z$ మరియు $xyz = 2304$ అయితే, $3x + 2y + z =$

1) 54

2) 104

3) 96

4) 116

Options :

39448427505. ✖ 1

39448427506. ✔ 2

39448427507. ✖ 3

39448427508. ✖ 4

Question Number : 78 Question Id : 3944847155 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If $A : B = 2 : 3$; $B : C = 3 : 4$; $C : D = 4 : 5$, then $D : A =$

$A : B = 2 : 3$; $B : C = 3 : 4$; $C : D = 4 : 5$ అయితే, $D : A =$

1) $1 : 5$

2) $2 : 5$

3) $5 : 2$

4) $5 : 1$

Options :

39448427509. ✖ 1

39448427510. ✖ 2

39448427511. ✔ 3

39448427512. ✖ 4

Question Number : 79 Question Id : 3944847156 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The ratio of the volumes of a cylinder and a cone having same base radius and same height is

ఒకే భూవ్యాసార్థం మరియు ఎత్తులను కలిగిన స్థూపం మరియు శంఖువు
ఘనపరిమాణముల నిష్పత్తి

1) 2 : 1

2) 1 : 2

3) 3 : 1

4) 1 : 3

Options :

39448427513. ✖ 1

39448427514. ✖ 2

39448427515. ✔ 3

39448427516. ✖ 4

Question Number : 80 Question Id : 3944847157 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If $x = \sqrt{3} - \sqrt{2}$, then the value of $\frac{1}{x^4} - x^4$ is

$x = \sqrt{3} - \sqrt{2}$ అయితే, $\frac{1}{x^4} - x^4$ యొక్క విలువ

1) $40\sqrt{3}$

2) $40\sqrt{6}$

3) $20\sqrt{6}$

4) $20\sqrt{2}$

Options :

39448427517. ✖ 1

39448427518. ✔ 2

39448427519. ✖ 3

39448427520. ✖ 4

Question Number : 81 Question Id : 3944847158 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

$$\frac{1}{\sqrt{18}+3} + \frac{1}{\sqrt{27}+\sqrt{18}} + \frac{1}{\sqrt{36}+\sqrt{27}} + \dots + \frac{1}{\sqrt{900}+\sqrt{891}} =$$

1) 3

2) 4

3) 6

4) 9

Options :

39448427521. ✓ 1

39448427522. ✗ 2

39448427523. ✗ 3

39448427524. ✗ 4

Question Number : 82 Question Id : 3944847159 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If 2^k divides $19!$, then the largest positive integer k is

19! ను 2^k నిశ్శేషంగా భాగింపబడేట్లుగా గరిష్ఠ ధన పూర్ణాంకం k విలువ

1) 14

2) 15

3) 16

4) 17

Options :

39448427525. ✖ 1

39448427526. ✖ 2

39448427527. ✔ 3

39448427528. ✖ 4

Question Number : 83 Question Id : 3944847160 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The remainder when $(48)^5$ is divided by 5 is

$(48)^5$ ను 5చే భాగిస్తే వచ్చే శేషం

1) 1

2) 2

3) 3

4) 4

Options :

39448427529. ✖ 1

39448427530. ✖ 2

39448427531. ✔ 3

39448427532. ✖ 4

Question Number : 84 Question Id : 3944847161 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

What is the least number that should be subtracted from 5337 to make it a perfect square?

ఏ కనిష్ఠ సంఖ్యను 5337 నుండి తీసివేయగా వచ్చునది ఒక పరిపూర్ణ వర్గమౌతుంది?

1) 4

2) 6

3) 8

4) 2

Options :

39448427533. ✖ 1

39448427534. ✖ 2

39448427535. ✔ 3

39448427536. ✖ 4

Question Number : 85 Question Id : 3944847162 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If the LCM and the GCD of two positive integers are 4641 and 21 respectively, and if one of the numbers is greater than 300 then the other number is

రెండు ధన సంఖ్యల క.సా.గు. మరియు గ.సా.భా. లు వరుసగా 4641 మరియు 21 లు మరియు ఆ రెండు సంఖ్యలలో ఒకటి 300 కన్న పెద్దదైతే, మరొక సంఖ్య

- 1) 357
- 2) 293
- 3) 273
- 4) 257

Options :

- 39448427537. ✖ 1
- 39448427538. ✖ 2
- 39448427539. ✔ 3
- 39448427540. ✖ 4

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The product of two natural numbers is 17. Then, the sum of the reciprocals of their squares is ____

రెండు సహజ సంఖ్యల లబ్ధం 17, అప్పుడు వాటి వర్గాల వ్యుత్క్రమాల మొత్తం

1) $\frac{1}{289}$

2) $\frac{289}{290}$

3) $\frac{290}{289}$

4) 289

Options :

39448427541. ✖ 1

39448427542. ✖ 2

39448427543. ✔ 3

39448427544. ✖ 4

Question Number : 87 Question Id : 3944847164 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the numerator of a fraction is increased by 2 and the denominator is increased by 3, the fraction becomes $\frac{7}{9}$ and if both the numerator as well as the denominator are increased by 1, the fraction becomes $\frac{4}{5}$. What is the original fraction?

ఒక భిన్నం యొక్క లవంను 2 పెంచి, హారాన్ని 3 పెంచితే వచ్చే భిన్నం $\frac{7}{9}$ కాగా అదే భిన్నం యొక్క లవ, హారాలను 1 చొప్పున పెంచితే వచ్చు భిన్నం $\frac{4}{5}$ అవుతు అసలు భిన్నం ఏది?

1) $\frac{19}{24}$

2) $\frac{9}{11}$

3) $\frac{13}{16}$

4) $\frac{17}{21}$

Options :

39448427545. ✓ 1

39448427546. ✗ 2

39448427547. ✗ 3

Question Number : 88 Question Id : 3944847165 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If the fractions $\frac{19}{21}$, $\frac{21}{25}$, $\frac{25}{29}$, $\frac{29}{31}$ and $\frac{31}{37}$ are arranged in the ascending order, then the largest fraction is

$\frac{19}{21}$, $\frac{21}{25}$, $\frac{25}{29}$, $\frac{29}{31}$ మరియు $\frac{31}{37}$ అనే భిన్నాలను ఆరోహణక్రమం లో వ్రాయగా, వాటిలో గరిష్ఠ భిన్నం

1) $\frac{19}{21}$

2) $\frac{25}{29}$

3) $\frac{29}{31}$

4) $\frac{21}{25}$

Options :

39448427549. ✖ 1

39448427550. ✖ 2

39448427551. ✔ 3

39448427552. ✖ 4

Question Number : 89 Question Id : 3944847166 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

The ascending order of the following rational numbers is

క్రింది అకరణీయ సంఖ్యల ఆరోహణక్రమం

$$A = \frac{4}{9}; B = \frac{7}{12}; C = \frac{3}{7}; D = \frac{8}{15}; E = \frac{1}{2}$$

- 1) A, B, C, D, E
- 2) E, D, C, B, A
- 3) B, D, E, A, C
- 4) C, A, E, D, B

Options :

39448427553. ✖ 1
39448427554. ✖ 2
39448427555. ✖ 3
39448427556. ✔ 4

Question Number : 90 Question Id : 3944847167 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

The price of petrol is increased by 40%. By how much percent should a citizen reduce his purchase so as not to increase his expenditure?

పెట్రోలు ధర 40% పెరిగింది. తన ఖర్చు పెరగని విధంగా ఒక వ్యక్తి తన పెట్రోల్ కొనడాన్ని ఎంత శాతం తగ్గించుకోవాలి?

- 1) 257%
- 2) $27\frac{1}{7}\%$
- 3) $28\frac{4}{7}\%$
- 4) $29\frac{4}{7}\%$

Options :

39448427557. ✖ 1
39448427558. ✖ 2
39448427559. ✔ 3
39448427560. ✖ 4

Question Number : 91 Question Id : 3944847168 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

In an election a candidate who gets 84% of the votes is elected by a majority of 476 votes. What is the total number of votes polled?

ఒకానొక ఎన్నికలో 84% ఓట్లు లభించిన వ్యక్తి 476 ఓట్ల మెజారిటీ తో ఎన్నిక కాబడినాడు. పోలయిన మొత్తం ఓట్లు ఎన్ని?

1) 672

2) 700

3) 749

4) 848

Options :

39448427561. ✖ 1

39448427562. ✔ 2

39448427563. ✖ 3

39448427564. ✖ 4

Question Number : 92 Question Id : 3944847169 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

A person sold a cow at a gain of 15%. Had he bought it for 25% less and sold it for Rs.600 loss, he would have made a profit of 32%. The cost price of the cow is (in rupees)

ఒక వ్యక్తి ఒక ఆవును అమ్మగా 15% లాభం వచ్చింది. అతడు దానిని 25% తక్కువకు కొని రూ. 600 ల నష్టం తో అమ్మినపుడు అతనికి 32% లాభం వచ్చిఉండేడిది . ఆవును కొన్న వెల (రూ.లలో)

- 1) 3750
- 2) 3450
- 3) 3360
- 4) 3240

Options :

- 39448427565. ✓ 1
- 39448427566. ✗ 2
- 39448427567. ✗ 3
- 39448427568. ✗ 4

Question Number : 93 Question Id : 3944847170 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

The cost price of 15 articles is equal to the sale price of the 12 articles. What is the final outcome of this transaction?

15 వస్తువుల కొన్న వెల, 12 వస్తువుల అమ్మిన వెల కు సమానం. ఈ లావాదేవీల్లో చివరిగా లభించు ఫలితం ఏమిటి?

- | | |
|---------------|-----------|
| 1) 25% profit | 25% లాభం |
| 2) 30% profit | 30% లాభం |
| 3) 25% loss | 25% నష్టం |
| 4) 30% loss | 30% నష్టం |

Options :

39448427569. ✓ 1

39448427570. ✗ 2

39448427571. ✗ 3

39448427572. ✗ 4

Question Number : 94 Question Id : 3944847171 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Three persons A, B and C enter into a business. A invests some money at the beginning, B invests double the amount after 6 months and C invests thrice the amount after 8 months. If the annual profit be Rs.27000, C's share in rupees is

ముగ్గురు వ్యక్తులు A, B, C లు ఒక వ్యాపారాన్ని ప్రారంభించిరి. కొంతమొత్తాన్ని A పెట్టుబడిగా ఉంచగా, దానికి రెండింతల మొత్తాన్ని 6 నెలల తరువాత B పెట్టుబడిగా పెట్టగా, 8 నెలల తరువాత Aకు మూడింతల మొత్తాన్ని C పెట్టుబడిగా పెట్టెను. సంవత్సరాంత లాభం రూ. 27000 లలో C వాటా (రూ.లలో)

- 1) 8625
- 2) 9000
- 3) 10800
- 4) 11250

Options :

39448427573. ✖ 1

39448427574. ✔ 2

39448427575. ✖ 3

39448427576. ✖ 4

Question Number : 95 Question Id : 3944847172 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

A person started a business with Rs.900000. After sometime, another person B joined him by investing Rs.400000. At the end of the year they share their profit in the ratio 9 : 2. After how many months B joined A?

ఒక వ్యక్తి A ఒక వ్యాపారాన్ని రూ. 900000లతో ప్రారంభించెను. కొంతకాలం తరువాత B అనే మరొక వ్యక్తి రూ. 400000ల పెట్టుబడితో అతనితో కలిసెను. సంవత్సరాంత లాభంలో వారి వాటాల నిష్పత్తి 9 : 2. అప్పుడు ఎన్ని నెలల తరువాత A తో B జత కలిసెను?

- 1) 5
- 2) 3
- 3) 6
- 4) 4

Options :

- 39448427577. ✖ 1
- 39448427578. ✖ 2
- 39448427579. ✔ 3
- 39448427580. ✖ 4

Question Number : 96 Question Id : 3944847173 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

An electric pump can fill a tank in 5 hours. Because of a leak it took 6 hours to fill the tank. In how many hours the leak can empty the tank (in hours)?

ఒక తొట్టెను ఒక విద్యుత్ గొట్టం 5 గంటలలో నింపగలదు కానీ, ఆ తొట్టె కారడం వల్ల 6 గంటలలో నింపుతుంది. అయితే, ఆ కారడంవల్ల తొట్టె ఎన్ని గంటలలో ఖాళీ అవుతుంది?

- 1) 26
- 2) 20
- 3) 24
- 4) 30

Options :

- 39448427581. ✖ 1
- 39448427582. ✖ 2
- 39448427583. ✖ 3
- 39448427584. ✔ 4

Question Number : 97 Question Id : 3944847174 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

Two pipes A, B can fill a tank independently in 4, 6 hours respectively. Both the pipes are opened at the same instant and after x hours pipe A is stopped.

If the total time taken to fill the tank is $3\frac{1}{2}$ hours, then x is

ఒక తొట్టెను రెండు గొట్టాలు A, B లు స్వతంత్రంగా వరుసగా 4 మరియు 6 గంటలలో నింపగలవు. ఆ రెండు గొట్టాలను ఒకే సమయంలో తెరిచి x గంటల తర్వాత గొట్టం A ఆపేయబడింది. ఆ తొట్టెను నింపడానికి పట్టే సమయం $3\frac{1}{2}$ గంటలయితే x విలువ

1) $\frac{2}{3}$

2) $\frac{5}{3}$

3) $\frac{4}{3}$

4) $\frac{4}{5}$

Options :

39448427585. ✖ 1

39448427586. ✔ 2

39448427587. ✖ 3

39448427588. ✖ 4

Question Number : 98 Question Id : 3944847175 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

If a car is moving at 5 meters per second, the time taken for it to cover a distance of 60 km is

సెకనుకు 5 మీ. చొప్పున కదులుతున్న ఒక కారు, 60 కి.మీ.ల దూరాన్ని ప్రయాణించుటకు పట్టు సమయం

- | | |
|-----------------|-------------|
| 1) 2 hrs 50 min | 2గం. 50 ని. |
| 2) 3 hrs 10 min | 3గం. 10 ని. |
| 3) 3 hrs 20 min | 3గం. 20 ని. |
| 4) 3 hrs 50 min | 3గం. 50 ని. |

Options :

39448427589. ✖ 1

39448427590. ✖ 2

39448427591. ✔ 3

39448427592. ✖ 4

Question Number : 99 Question Id : 3944847176 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

A person goes from city-A to city-B at 60 kmph speed and returns from city-B to city-A at 40kmph speed. If the total journey time is 5 hours the distance between A and B (in km)

ఒక వ్యక్తి నగరం-A నుండి నగరం-B కు గంటకు 60 కి.మీ. వేగంతో, నగరం-B నుండి నగరం-A కు గంటకు 40 కి.మీ. వేగంతోనూ వెళ్లారు. మొత్తం ప్రయాణకాలం 5 గంటలైతే A మరియు B ల మధ్య దూరం (కి.మీ.లలో)

- 1) 100
- 2) 120
- 3) 150
- 4) 175

Options :

39448427593. ✖ 1

39448427594. ✔ 2

39448427595. ✖ 3

39448427596. ✖ 4

Question Number : 100 Question Id : 3944847177 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Two persons A and B can complete a piece of work in 4 days; B and another person C in 6 days and A, B, C together in 3 days. If A and C alone work on the same piece of work the number of days required to complete it is:

ఇద్దరు వ్యక్తులు A, B లు కలిసి ఒక పనిని 4 రోజుల్లో పూర్తి చేయగలరు; B మరియు మరొక వ్యక్తి C లు కలిసి అదే పనిని 6 రోజుల్లోనూ మరియు A, B, C లు కలిసి 3 రోజుల్లోనూ పూర్తి చేయగలరు. అదే పనిని A మరియు C మాత్రమే కలిసి పూర్తి చేయుటకు పట్టు రోజుల సంఖ్య:

- 1) 3
- 2) 4
- 3) 5
- 4) 6

Options :

39448427597. ✖ 1

39448427598. ✔ 2

39448427599. ✖ 3

39448427600. ✖ 4

Question Number : 101 Question Id : 3944847178 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Ravi alone can complete a piece of work in 30 days. After working for 10 days Ravi invites Ramu to join the work. If they together finish the work in the next 8 days, then Ramu alone can require the number of days to complete the work is

రవి ఒక్కడే పనిలో ఒక భాగాన్ని 30 రోజులలో పూర్తి చేయగలడు. రవి 10 రోజులు పని చేసిన తర్వాత రామును ఆ పనిలో చేరడానికి ఆహ్వానిస్తాడు. వాళ్లిద్దరూ కలిసి ఆ పనిని తర్వాత 8 రోజులలో పూర్తి చేస్తే, అప్పుడు రాము, ఒక్కడే ఆ పనిని పూర్తి చేయుటకు కావలసిన రోజుల సంఖ్య

- 1) 12
- 2) 15
- 3) 18
- 4) 20

Options :

- 39448427601. ✖ 1
- 39448427602. ✖ 2
- 39448427603. ✖ 3
- 39448427604. ✔ 4

Question Number : 102 Question Id : 3944847179 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

A man walks 89 meters along the diagonal of a rectangular field. If, the length of the field is 80 meters, find the cost of fencing the field at the rate of Rs.100 per meter (in rupees)?

ఒక వ్యక్తి దీర్ఘ చతురస్రాకార క్షేత్రం యొక్క వికర్ణం వెంట 89 మీటర్లు నడుస్తాడు. ఆ దీర్ఘ చతురస్రాకార క్షేత్రం పొడవు 80 మీటర్లు అయితే, ఆ క్షేత్రం చుట్టూ కంచె వేయుటకు ప్రతి మీటరుకు రూ. 100 చొప్పున అయ్యే ఖర్చు (రూ.లలో)

- 1) 20000
- 2) 23800
- 3) 24000
- 4) 18000

Options :

- 39448427605. ✖ 1
- 39448427606. ✔ 2
- 39448427607. ✖ 3
- 39448427608. ✖ 4

Question Number : 103 Question Id : 3944847180 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Two poles of heights 78 meters and 30 meters stand up in a play ground. If

their feet are 55 meters apart, find the distance between the tops (in meters)

ఒక ఆట స్థలంలో 78 మీ. మరియు 30 మీ. ఎత్తుగల రెండు నిలువెత్తు
స్తంభాలున్నాయి. వాటి పాదముల మధ్య దూరం 55 మీ. అయితే , వాటి
శిఖరాల మధ్య దూరం (మీటర్లలో)

1) 70

2) 75

3) 73

4) 72

Options :

39448427609. ✖ 1

39448427610. ✖ 2

39448427611. ✔ 3

39448427612. ✖ 4

Question Number : 104 Question Id : 3944847181 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

From a right circular cylinder of height 21 meters and the base diameter of 20 meters a cone of same dimensions is removed. The volume of the remaining portion will be (in m^3)

21 మీటర్ల ఎత్తు, భూవ్యాసం 20 మీటర్లు గల ఒక స్తూపం నుండి అవే కొలతలు కల ఒక శంఖువును తొలగించగా మిగిలిన భాగం యొక్క ఘనపరిమాణం (ఘ. మీ. లలో)

- 1) 1600π
- 2) 1400π
- 3) 1200π
- 4) 1100π

Options :

39448427613. ✖ 1

39448427614. ✔ 2

39448427615. ✖ 3

39448427616. ✖ 4

Question Number : 105 Question Id : 3944847182 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If a hemisphere has radius 24 cm, then its total surface area, in cm^2 is

ఒక అర్థ గోళ వ్యాసార్థము 24 సెం. మీ. అయితే, దాని సంపూర్ణతల వైశాల్యం
(సెం. మీ². లలో)

1) 576π

2) 1152π

3) 1728π

4) 2016π

Options :

39448427617. ✖ 1

39448427618. ✖ 2

39448427619. ✔ 3

39448427620. ✖ 4

Question Number : 106 Question Id : 3944847183 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The area of a square field is 3136 sq.m. This is to be fenced on all the four sides by a barbed wire three times (at different heights) leaving space for 2 gates of width of 1 meter each. If the cost of fencing is Rs.150 per metre the total cost (in rupees is)

ఒక చతురస్రాకారపు క్షేత్రం వైశాల్యం 3136 చ. మీ. ఈ క్షేత్రం చుట్టూ, 1 మీటరు నిడివిగల 2 గేట్లకు చోటు వదిలి, మూడు సార్లు (విభిన్న ఎత్తులలో) ఇనుప కంచెను వేయాలి ఉంది. ప్రతి మీటరు కంచె వేయుటకు రూ. 150 చొప్పున ఖర్చు అయినచో మొత్తం ఖర్చు (రూపాయలలో)

- 1) 109800
- 2) 100900
- 3) 99999
- 4) 99900

Options :

39448427621. ✖ 1
39448427622. ✖ 2
39448427623. ✖ 3
39448427624. ✔ 4

Question Number : 107 Question Id : 3944847184 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The amount (in sq.m.) of canvas required to erect a conical tent whose height is 8.4 m and having area of the base as 38.5 sq.m is (taking the approximate value of π as $\frac{22}{7}$)

38.5 చ. మీ. భూవైశాల్యం, ఎత్తు 8.4 మీటర్లను కలిగి ఉన్న శంఖువు ఆకారపు గుడారాన్ని ఏర్పాటు చేయడానికి కావలసిన గుడ్డ (π యొక్క సుమారు విలువను $\frac{22}{7}$ గా తీసుకొనుము) పరిమాణము (చ.మీ.లలో)

- 1) 100.10
- 2) 110.10
- 3) 111.00
- 4) 111.10

Options :

- 39448427625. ✓ 1
- 39448427626. ✗ 2
- 39448427627. ✗ 3
- 39448427628. ✗ 4

Question Number : 108 Question Id : 3944847185 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

If the lateral surface area and the total surface area of a right circular cylinder are in the ratio 7 : 9 and its base radius is 4 cm, then the height of the cylinder (in cm) is

ఒక స్తూపం యొక్క ప్రక్కతల వైశాల్యం మరియు సంపూర్ణతల వైశాల్యాల నిష్పత్తి 7 : 9 కాగా దాని భూ వ్యాసార్థం 4 సెం. మీ. అయితే, ఆ స్తూపం ఎత్తు (సెం. మీ.లలో)

- 1) 14
- 2) 24
- 3) 34
- 4) 44

Options :

39448427629. ✓ 1

39448427630. ✗ 2

39448427631. ✗ 3

39448427632. ✗ 4

Question Number : 109 Question Id : 3944847186 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If $n^2 - 1$ is divisible by 8, then, n is

8 తో $n^2 - 1$ భాగించబడితే అప్పుడు, n అనేది

- | | |
|---------------------|-------------------|
| 1) An integer | ఒక పూర్ణాంకం |
| 2) A natural number | ఒక సహజ సంఖ్య |
| 3) An odd integer | ఒక బేసి పూర్ణాంకం |
| 4) An even integer | ఒక సరి పూర్ణాంకం |

Options :

39448427633. ✖ 1

39448427634. ✖ 2

39448427635. ✔ 3

39448427636. ✖ 4

Question Number : 110 Question Id : 3944847187 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

$$4212_7 + 5136_7 - 2354_7 =$$

1) 11456_7

2) 10324_7

3) 6664_7

4) 5555_7

Options :

39448427637. ✖ 1

39448427638. ✖ 2

39448427639. ✔ 3

39448427640. ✖ 4

Sub-Section Number :

2

Sub-Section Id :

394484726

Question Shuffling Allowed :

Yes

Question Number : 111 Question Id : 3944847188 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The statement $p \wedge (\sim q) \rightarrow p$ is a _____

ప్రవచనం $p \wedge (\sim q) \rightarrow p$ అనునది

- | | |
|------------------|----------------|
| 1) Tautology | నిత్యసత్యం |
| 2) Biimplication | ద్వి అనుషంగికం |
| 3) Contradiction | విరోధాభాసం |
| 4) Complement | పూరకం |

Options :

39448427641. ✓ 1

39448427642. ✗ 2

39448427643. ✗ 3

39448427644. ✗ 4

Question Number : 112 Question Id : 3944847189 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Consider the following statement,

p : A is good at mathematics

q : A is good at English

for the statement $p \rightarrow q$, the statement

‘A is good in mathematics and A is not good in English’ is

క్రింది ప్రవచనాలను గైకొనుము.

p : A గణితంలో నిష్ణాతుడు

q : A ఆంగ్లములో నిష్ణాతుడు

$p \rightarrow q$ అనే ప్రవచనానికి A గణితంలో నిష్ణాతుడు, మరియు A ఆంగ్లములో నిష్ణాతుడు కాదు అనే ప్రవచనం

- | | |
|-------------------|------------------|
| 1) Converse | విపర్యయం |
| 2) Negation | వ్యతిరేక ప్రవచనం |
| 3) Inverse | విలోమం |
| 4) Contrapositive | ప్రతి వర్తితం |

Options :

39448427645. ✖ 1

39448427646. ✔ 2

39448427647. ✖ 3

39448427648. ✖ 4

Question Number : 113 Question Id : 3944847190 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

In a town of 840 persons, 450 persons read Hindi newspaper, 300 read English newspaper and 200 both. Then the number of persons who read neither Hindi nor English news paper is

840 వ్యక్తులు గల ఒక పట్టణంలో, 450 మంది హిందీ వార్తా పత్రికను, 300 మంది ఆంగ్లం వార్తా పత్రికను మరియు 200 మంది ఆ రెంటినీ చదువుతారు. అయితే, ఆ రెండు వార్తా పత్రికలను చదవని వ్యక్తుల సంఖ్య

- 1) 210
- 2) 290
- 3) 180
- 4) 260

Options :

- 39448427649. ✖ 1
- 39448427650. ✔ 2
- 39448427651. ✖ 3
- 39448427652. ✖ 4

Question Number : 114 Question Id : 3944847191 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

If a set A has 4 elements, and the number of binary relations on A which are anti symmetric is $2^\alpha \times 3^\beta$, then $\alpha + \beta =$

ఒక సమితి A లో 4 మూలకాలు ఉన్నాయి, మరియు ఆ సమితి పై ఉండే ప్రతిసౌష్ఠవ సంబంధాల సంఖ్య $2^\alpha \times 3^\beta$ అయితే, $\alpha + \beta =$

- 1) 10
- 2) 8
- 3) 6
- 4) 4

Options :

39448427653. ✓ 1

39448427654. ✗ 2

39448427655. ✗ 3

39448427656. ✗ 4

Question Number : 115 Question Id : 3944847192 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be defined as $f(x) = 3x^2 - 7$ for all $x \in \mathbb{R}$ then f is

$x \in \mathbb{R}$ కు $f : \mathbb{R} \rightarrow \mathbb{R}$ ను $f(x) = 3x^2 - 7$ గా నిర్వచిస్తే, అప్పుడు, f

అనేది

- | | |
|-----------------------------|------------------------------|
| 1) one-one and onto | అన్వేషకం మరియు సంగ్రహం |
| 2) one-one but not onto | అన్వేషకం కానీ సంగ్రహం కాదు |
| 3) onto but not one-one | సంగ్రహం కానీ అన్వేషకం కాదు |
| 4) neither one-one nor onto | రెండూ అన్వేషకం, సంగ్రహం కాదు |

Options :

39448427657. ✖ 1

39448427658. ✖ 2

39448427659. ✖ 3

39448427660. ✔ 4

Question Number : 116 Question Id : 3944847193 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

బీజీయం, జ్యామితీయ సామర్థ్యం

A line makes intercept -3 from on the y-axis and has slope is $\frac{3}{5}$, Then, its

equation is

$\frac{3}{5}$ వాలుగా గల ఒక సరళరేఖ y-అక్షం పై -3 అంతరాఖండం చేస్తుంది.

అప్పుడు, దాని సమీకరణం

1) $5y - 3x + 15 = 0$

2) $3y - 5x + 15 = 0$

3) $5y - 3x - 15 = 0$

4) $3y + 5x - 15 = 0$

Options :

39448427661. ✓ 1

39448427662. ✗ 2

39448427663. ✗ 3

39448427664. ✗ 4

Question Number : 117 Question Id : 3944847194 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The points $(p + 1, 1)$, $(2p + 1, 3)$ and $(2p + 2, 2p)$ lie on the same straight line only if $p =$

$(p + 1, 1)$, $(2p + 1, 3)$ మరియు $(2p + 2, 2p)$ లు ఒకే సరళరేఖపై

ఉండటానికి $p =$

1) -1 or 2 -1 లేదా 2

2) 2 or 1 2 లేదా 1

3) 2 or $\frac{-1}{2}$ 2 లేదా $\frac{-1}{2}$

4) $\frac{1}{2}$ or 2 $\frac{1}{2}$ లేదా 2

Options :

39448427665. ✖ 1

39448427666. ✖ 2

39448427667. ✔ 3

39448427668. ✖ 4

Question Number : 118 Question Id : 3944847195 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If $\tan \alpha = \cot \beta = 1$ and α, β are both acute angles, then the value of $2\alpha + \beta$ is

$\tan \alpha = \cot \beta = 1$ అయి α, β లు లఘు కోణాలయినపుడు, $2\alpha + \beta$ విలువ

1) $\frac{3\pi}{4}$

2) $\frac{\pi}{2}$

3) $\frac{2\pi}{3}$

4) $\frac{4\pi}{3}$

Options :

39448427669. ✓ 1

39448427670. ✗ 2

39448427671. ✗ 3

39448427672. ✗ 4

Question Number : 119 Question Id : 3944847196 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If $13 \sin \theta = 12$ and θ is acute, then $\frac{\operatorname{cosec} \theta + \cot \theta}{\tan \theta + \sec \theta} =$

$13 \sin \theta = 12$ మరియు θ అనేది లఘు కోణం అయినప్పుడు,

$$\frac{\operatorname{cosec} \theta + \cot \theta}{\tan \theta + \sec \theta} =$$

1) $\frac{3}{8}$

2) $\frac{3}{10}$

3) $\frac{10}{3}$

4) $\frac{8}{3}$

Options :

39448427673. ✖ 1

39448427674. ✔ 2

39448427675. ✖ 3

39448427676. ✖ 4

Question Number : 120 Question Id : 3944847197 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

$$\frac{1+\sin \theta+\cos \theta}{1+\sin \theta-\cos \theta} =$$

1) $\tan \frac{\theta}{2}$

2) $\cot \frac{\theta}{2}$

3) $-\tan \frac{\theta}{2}$

4) $-\cot \frac{\theta}{2}$

Options :

39448427677. ✖ 1

39448427678. ✔ 2

39448427679. ✖ 3

39448427680. ✖ 4

Question Number : 121 Question Id : 3944847198 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

Seen from the top of a tower 100 meters tall the angles of depression of two points A and B on the ground which are on the opposite sides of the tower are 30° and 60° respectively. The distance AB in meters is:

100మీ. పొడవైన ఒక స్తంభం పైననుండి చూసినపుడు, ఆ స్తంభానికి వ్యతిరేకదిశలో నేలపై గల రెండు బిందువులు A, B లకు నిమ్న కోణాలు వరుసగా 30° మరియు 60° , అప్పుడు A,B ల మధ్యదూరం

1) $400\sqrt{6}$

2) $400\sqrt{3}$

3) $\frac{400\sqrt{3}}{3}$

4) $\frac{400}{3}$

Options :

39448427681. ✖ 1

39448427682. ✖ 2

39448427683. ✔ 3

39448427684. ✖ 4

Question Number : 122 Question Id : 3944847199 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If a polynomial in x leaves remainder -2 and 19 when divided by $(x + 3)$ and $(x - 4)$ then the remainder it leaves when it is divided by $x^2 - x - 12$ is

x లో ఏదేని బహుపదిని $(x + 3)$ మరియు $(x - 4)$ లచే భాగించినపుడు -2, మరియు 19లను శేషంగా ఇచ్చినపుడు, అదే బహుపదిని $x^2 - x - 12$ చే భాగించినపుడు వచ్చే శేషం

- 1) $3x + 7$
- 2) $2x + 6$
- 3) $-2x + 7$
- 4) $3x - 19$

Options :

- 39448427685. ✓ 1
- 39448427686. ✗ 2
- 39448427687. ✗ 3
- 39448427688. ✗ 4

Question Number : 123 Question Id : 3944847200 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

The roots of the equation $\sqrt{6}x^2 - 5x + \sqrt{6} = 0$ are

$\sqrt{6}x^2 - 5x + \sqrt{6} = 0$ అనే సమీకరణపు మూలాలు

1) $\sqrt{6}, \frac{1}{\sqrt{6}}$

2) $\sqrt{6}, \frac{-1}{\sqrt{6}}$

3) $\sqrt{\frac{2}{3}}, \sqrt{\frac{3}{2}}$

4) $\sqrt{\frac{2}{3}}, -\sqrt{\frac{3}{2}}$

Options :

39448427689. ✖ 1

39448427690. ✖ 2

39448427691. ✔ 3

39448427692. ✖ 4

Question Number : 124 Question Id : 3944847201 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If $(x - 5)$ is a factor of the polynomial $p(x)$, then a factor of the polynomial

$p(x^3 - 3)$ is

బహుపది $p(x)$ నకు $(x - 5)$ ఒక కారణాంకం అయినపుడు, $p(x^3 - 3)$ యొక్క
ఒక కారణాంకము

1) $x + 1$

2) $x + 2$

3) $x - 1$

4) $x - 2$

Options :

39448427693. ✖ 1

39448427694. ✖ 2

39448427695. ✖ 3

39448427696. ✔ 4

Question Number : 125 Question Id : 3944847202 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

A number when divided by 5, leaves 3 as remainder. When the square of that number is divided by 5, then the remainder will be

ఒక సంఖ్యను 5చే భాగించగా 3 శేషంగా వచ్చింది. అదే సంఖ్య యొక్క వర్గాన్ని 5 చే భాగించగా వచ్చు శేషం

1) 0

2) 2

3) 3

4) 4

Options :

39448427697. ✖ 1

39448427698. ✖ 2

39448427699. ✖ 3

39448427700. ✔ 4

Question Number : 126 Question Id : 3944847203 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Three pens and four pencils cost Rs.18. Four pens and three pencils cost Rs.17.

Then, the cost of 14 pens and 14 pencils (in rupees) is

మూడు పెన్నులు, నాలుగు పెన్సిళ్ళ ధర రూ.18, నాలుగు పెన్నులు, మూడు పెన్సిళ్ళ ధర రూ.17, అయితే, 14పెన్నులు, 14 పెన్సిళ్ళ ధర (రూ.లలో)

1) 70

2) 60

3) 50

4) 40

Options :

39448427701. ✓ 1

39448427702. ✗ 2

39448427703. ✗ 3

39448427704. ✗ 4

Question Number : 127 Question Id : 3944847204 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

బీజీయ, జ్యామితీయ సామర్థ్యత

If $|x - 2| + |x - 3| < 4$, then the range of x is

$|x - 2| + |x - 3| < 4$ అయినపుడు, x యొక్క వ్యాప్తి

1) $\left(\frac{1}{2}, 2\right)$

2) $[2, 3]$

3) $\left(3, \frac{9}{2}\right)$

4) $\left(\frac{1}{2}, \frac{9}{2}\right)$

Options :

39448427705. ✖ 1

39448427706. ✖ 2

39448427707. ✖ 3

39448427708. ✔ 4

Question Number : 128 Question Id : 3944847205 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

బీజీయం, జ్యామితీయ సామర్థ్యం

The sum of n terms of a progression is $S_n = 5n^2 + 2n$. Then, the n^{th} term t_n ?

ఒక శ్రేణి లోని n పదాల మొత్తం $S_n = 5n^2 + 2n$. అయినపుడు, n వ పదం

$t_n =$

1) $10n - 3$

2) $10n - 5$

3) $10n - 7$

4) $10n - 9$

Options :

39448427709. ✓ 1

39448427710. ✗ 2

39448427711. ✗ 3

39448427712. ✗ 4

Question Number : 129 Question Id : 3944847206 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

If the 5th and 9th terms of a Geometric Progression are $\frac{1}{9}$ and $\frac{1}{729}$, then the first term of that Geometric Progression is

ఒక గుణశ్రేణి లోని 5వ పదం మరియు 9వ పదాలు $\frac{1}{9}$ మరియు $\frac{1}{729}$,

అయినపుడు, ఆ గుణశ్రేణిలోని మొదటి పదం

1) 27

2) 9

3) 3

4) $\frac{1}{3}$

Options :

39448427713. ✖ 1

39448427714. ✔ 2

39448427715. ✖ 3

39448427716. ✖ 4

Question Number : 130 Question Id : 3944847207 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

బీజీయం, జ్యామితీయ సామర్థ్యం

The coefficient of x^7 in the binomial expansion of $\left(x^3 - \frac{2}{x^2}\right)^5$ is

$\left(x^3 - \frac{2}{x^2}\right)^5$ యొక్క ద్విపదవిస్తరణలో x^7 యొక్క గుణకం

1) 0

2) ${}^5C_2(-2)^2$

3) ${}^5C_3(-2)^3$

4) ${}^5C_4(-2)^4$

Options :

39448427717. ✓ 1

39448427718. ✗ 2

39448427719. ✗ 3

39448427720. ✗ 4

Question Number : 131 Question Id : 3944847208 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

Find the term independent of x , where $x \neq 0$, in the expansion of $\left(\frac{3x^2}{2} - \frac{1}{3x}\right)^{15}$

$x \neq 0$, అయినప్పుడు, $\left(\frac{3x^2}{2} - \frac{1}{3x}\right)^{15}$ విస్తరణలో x లేని పదం

1) ${}^{15}C_{10} \left(\frac{1}{6}\right)^5$

2) ${}^{15}C_{10} \left(\frac{1}{6}\right)^6$

3) ${}^{15}C_9 \left(\frac{1}{6}\right)^4$

4) ${}^{15}C_9 \left(\frac{1}{6}\right)^5$

Options :

39448427721. ✓ 1

39448427722. ✗ 2

39448427723. ✗ 3

39448427724. ✗ 4

Question Number : 132 Question Id : 3944847209 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

బీజీయం, జ్యామితీయ సామర్థ్యం

If $A = \begin{bmatrix} 2 & 2 & 1 \\ 1 & 0 & 2 \\ 2 & 1 & 2 \end{bmatrix}$ is the inverse of $B = \begin{bmatrix} -2 & a & 4 \\ 2 & 2 & -3 \\ 1 & 2 & -2 \end{bmatrix}$ then $a =$

$B = \begin{bmatrix} -2 & a & 4 \\ 2 & 2 & -3 \\ 1 & 2 & -2 \end{bmatrix}$ యొక్క విలోమం $A = \begin{bmatrix} 2 & 2 & 1 \\ 1 & 0 & 2 \\ 2 & 1 & 2 \end{bmatrix}$ అయితే, అప్పుడు $a =$

1) 4

2) 3

3) 0

4) -3

Options :

39448427725. ✖ 1

39448427726. ✖ 2

39448427727. ✖ 3

39448427728. ✔ 4

Question Number : 133 Question Id : 3944847210 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

If $A = \begin{bmatrix} 1 & 2 & 3 \\ 0 & 1 & 2 \\ 0 & 0 & 1 \end{bmatrix}$, $B = \begin{bmatrix} x \\ y \\ z \end{bmatrix}$ and $AB = \begin{bmatrix} 6 \\ 3 \\ 1 \end{bmatrix}$ then $x + y + z =$

$A = \begin{bmatrix} 1 & 2 & 3 \\ 0 & 1 & 2 \\ 0 & 0 & 1 \end{bmatrix}$, $B = \begin{bmatrix} x \\ y \\ z \end{bmatrix}$ మరియు $AB = \begin{bmatrix} 6 \\ 3 \\ 1 \end{bmatrix}$ అయితే, అప్పుడు $x + y + z =$

1) 0

2) 1

3) 3

4) 10

Options :

39448427729. ✖ 1

39448427730. ✖ 2

39448427731. ✔ 3

39448427732. ✖ 4

Question Number : 134 Question Id : 3944847211 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

$$\lim_{x \rightarrow 0} \frac{2 \sin x - \sin 2x}{x^3} =$$

1) $\frac{1}{4}$

2) $\frac{1}{2}$

3) 1

4) 2

Options :

39448427733. ✖ 1

39448427734. ✖ 2

39448427735. ✔ 3

39448427736. ✖ 4

Question Number : 135 Question Id : 3944847212 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If $y = \frac{x^3-3}{7x^2+2}$, then at $x = 2$, $\frac{dy}{dx} =$

$y = \frac{x^3-3}{7x^2+2}$ అయినప్పుడు, $x = 2$ వద్ద $\frac{dy}{dx} =$

1) $\frac{121}{900}$

2) $\frac{5}{9}$

3) $\frac{221}{900}$

4) $\frac{11}{45}$

Options :

39448427737. ✖ 1

39448427738. ✖ 2

39448427739. ✖ 3

39448427740. ✔ 4

Question Number : 136 Question Id : 3944847213 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

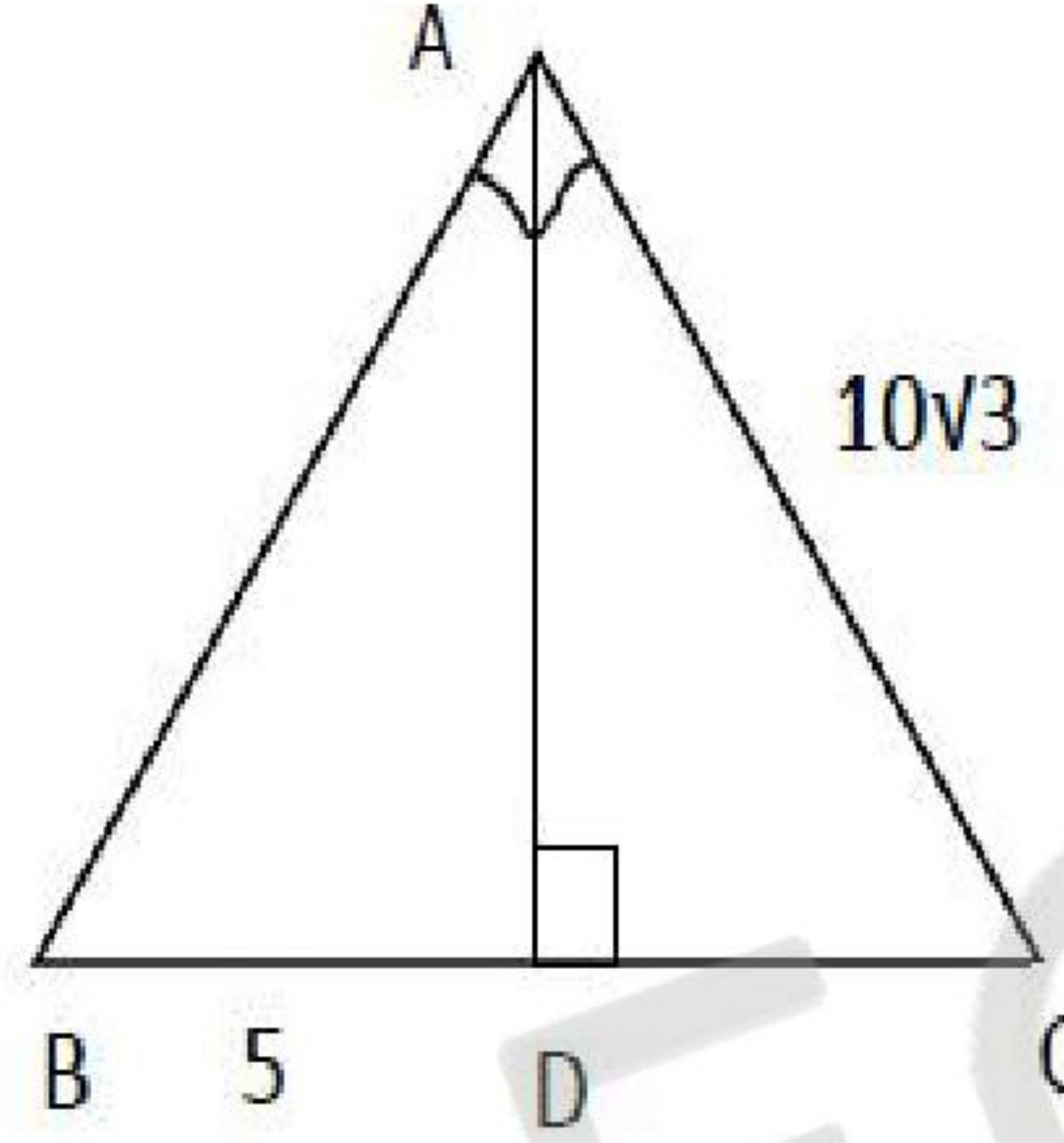
Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

In the adjacent figure $\angle A = 90^\circ$ and $AD \perp BC$. If $AC = 10\sqrt{3}$ and $AD = 5$

then $DC =$

ప్రక్కన ఇవ్వబడిన చిత్రంలో $\angle A = 90^\circ$ మరియు $AD \perp BC$. $AC = 10\sqrt{3}$
మరియు $AD = 5$ అయిన $DC =$



- 1) 15
- 2) $12\sqrt{3}$
- 3) 12
- 4) $13\sqrt{3}$

Options :

39448427741. ✓ 1

39448427742. ✗ 2

39448427743. ✗ 3

39448427744. ✗ 4

Question Number : 137 Question Id : 3944847214 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

In the quadrilateral ABCD, $AB = AD$. The bisectors of $\angle BAC$ and $\angle CAD$ meet the sides BC and CD at points E and F respectively. If $CE = 6$ cm, $BE = 4$ cm and $BD = 15$ cm, then the length of EF (in cm) is

ABCD అనే చతుర్భుజంలో $AB = AD$. $\angle BAC$ మరియు $\angle CAD$ ల కోణ సమద్విఖండన రేఖలు BC మరియు CD భుజాలను వరుసగా E మరియు F బిందువులతో కలుస్తున్నాయి. $CE = 6$ సెం.మీ., $BE = 4$ సెం.మీ., మరియు $BD = 15$ సెం.మీ., అయితే, EF పొడవు (సెం.మీ.లలో)

- 1) 8
- 2) 9
- 3) 10
- 4) 6

Options :

- 39448427745. ✖ 1
- 39448427746. ✔ 2
- 39448427747. ✖ 3
- 39448427748. ✖ 4

Question Number : 138 Question Id : 3944847215 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

A, B, C are three points on the circumference of a circle. If $AB = 6$ cm, $AC = 8$ cm and $\angle BAC = 90^\circ$ then the radius of the circle (in cm) is

ఒక వృత్త పరిధి పై A, B, C లు మూడు బిందువులు $AB = 6$ సెం.మీ.,
 $AC = 8$ సెం.మీ. మరియు $\angle BAC = 90^\circ$ అయితే, అప్పుడు ఆ వృత్త
వ్యాసార్థం (సెం.మీ. లలో)

- 1) 10
- 2) 8
- 3) 9
- 4) 5

Options :

- 39448427749. ✖ 1
- 39448427750. ✖ 2
- 39448427751. ✖ 3
- 39448427752. ✔ 4

Question Number : 139 Question Id : 3944847216 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

The perimeter of the triangle ABC with the vertices A(3, 2); B(-3, 2); C(0, 2 - 3√3) is

A(3, 2); B(-3, 2); C(0, 2 - 3√3) లను శీర్షాలుగా కల్గిన త్రిభుజం ABC యొక్క చుట్టు కొలత

1) $\sqrt{108}$

2) $\sqrt{72}$

3) 18

4) $12\sqrt{3}$

Options :

39448427753. ✖ 1

39448427754. ✖ 2

39448427755. ✔ 3

39448427756. ✖ 4

Question Number : 140 Question Id : 3944847217 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability
బీజీయం, జ్యామితీయ సామర్థ్యం

The fourth vertex D of a parallelogram ABCD whose three vertices are A(-2, 3), B(6, 7) and C(8, 3) is

A(-2, 3), B(6, 7) మరియు C(8, 3)లు శీర్షాలుగాగల ఒక చతుర్భుజం ABCD యొక్క నాలుగవ శీర్షం D

- 1) (0, 1)
- 2) (-1, 0)
- 3) (0, -1)
- 4) (1, 0)

Options :

39448427757. ✖ 1
39448427758. ✖ 2
39448427759. ✔ 3
39448427760. ✖ 4

Sub-Section Number : 3

Sub-Section Id : 394484727

Question Shuffling Allowed : Yes

Question Number : 141 Question Id : 3944847218 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability
సాంఖ్యికశాస్త్ర సామర్థ్యత

The Arithmetic Mean of the following distribution is

ఈ క్రింది దత్తాంశపు అంకమధ్యమం

$$x_i: 1 \ 2 \ 3 \ \dots 21$$

$$f_i : 1^2 \ 2^2 \ 3^2 \ \dots 21^2$$

1) 231

2) $\frac{663}{45}$

3) 451

4) $\frac{693}{43}$

Options :

39448427761. ✖ 1

39448427762. ✖ 2

39448427763. ✖ 3

39448427764. ✔ 4

Question Number : 142 Question Id : 3944847219 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

The median of the observations 7, 8, 7, 9, 7, 14, 15, 6, 8, 14, 9, 17, 15, 16 is

7, 8, 7, 9, 7, 14, 15, 6, 8, 14, 9, 17, 15, 16 అనే పరిశీలనల మధ్యగతము

- 1) 8
- 2) 8.5
- 3) 9
- 4) 11.5

Options :

39448427765. ✖ 1

39448427766. ✖ 2

39448427767. ✔ 3

39448427768. ✖ 4

Question Number : 143 Question Id : 3944847220 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

If the Mean and Median of a set of observed data are 36 and 44 respectively,
the Mode of that data is

ఒక దత్తాంశపు అంకమధ్యమం మరియు మధ్యగతములు వరుసగా 36
మరియు 44 అయినపుడు, ఆ దత్తాంశపు బహుళకము

- 1) 52
- 2) 58
- 3) 60
- 4) 62

Options :

- 39448427769. ✖ 1
- 39448427770. ✖ 2
- 39448427771. ✔ 3
- 39448427772. ✖ 4

Question Number : 144 Question Id : 3944847221 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

The standard deviation of the data is 73, 74, 75, ... , 85

73, 74, 75, ... , 85 అనే దత్తాంశపు క్రమవిచలనం

1) $\sqrt{21}$

2) $\sqrt{19}$

3) $\sqrt{17}$

4) $\sqrt{14}$

Options :

39448427773. ✖ 1

39448427774. ✖ 2

39448427775. ✖ 3

39448427776. ✔ 4

Question Number : 145 Question Id : 3944847222 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

If the standard deviation of the data : 7, 10, 13, 16, ... , 121 is σ then the standard deviation of the data 50, 71, 92, ... , 848 is

7, 10, 13, 16, ... , 121 అనే దత్తాంశపు క్రమ విచలనం σ అయినపుడు,
50, 71, 92, ... , 848 అనే దత్తాంశపు క్రమ విచలనం

- 1) $\sigma^2 + 1$
- 2) 8σ
- 3) $7\sigma + 1$
- 4) 7σ

Options :

- 39448427777. ✖ 1
- 39448427778. ✖ 2
- 39448427779. ✖ 3
- 39448427780. ✔ 4

Question Number : 146 Question Id : 3944847223 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

From the data of 8 comparable observations, the sum of the squares of the deviations in their ranks is found to be 31.5. Then coefficient of rank correlation is:

8 పోల్చదగిన పరిశీలనల దత్తాంశంలో వాటి కోటి లలో విచలనాల యొక్క వర్గాల మొత్తం 31.5 గా ఇవ్వబడినది. అప్పుడు కోటి సహ సంబంధ గుణకం

1) $\frac{1}{2}$

2) $\frac{1}{3}$

3) $\frac{5}{8}$

4) $\frac{7}{8}$

Options :

39448427781. ✖ 1

39448427782. ✖ 2

39448427783. ✔ 3

39448427784. ✖ 4

Question Number : 147 Question Id : 3944847224 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

A pair of unbiased dice is thrown. The probability that there is either there appear same number on both or a sum of the numbers on their faces less than six, is

రెండు నిష్పక్షిక పాచికలను దొర్లించిరి. రెండింటిపై ఒకే సంఖ్య రావడం లేదా వాటి పైముఖాల మొత్తం 6 కన్న తక్కువ అయ్యేందుకు సంభావ్యత

1) $\frac{7}{18}$

2) $\frac{4}{9}$

3) $\frac{5}{18}$

4) $\frac{5}{9}$

Options :

39448427785. ✓ 1

39448427786. ✗ 2

39448427787. ✗ 3

39448427788. ✗ 4

Question Number : 148 Question Id : 3944847225 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

If two unbiased dice are thrown simultaneously, then, the probability of getting a total of 8 with at least one prime number

రెండు నిష్పక్షిక పాచికలు ఒకేసారి దొర్లించబడినప్పుడు కనీసం ఒక ప్రధాన సంఖ్య ఉంటూ పాచిక ముఖాలపై అంకెల మొత్తం 8 అయ్యే ఘటనకు సంభావ్యత

1) $\frac{1}{9}$

2) $\frac{2}{9}$

3) $\frac{7}{18}$

4) $\frac{1}{18}$

Options :

39448427789. ✓ 1

39448427790. ✗ 2

39448427791. ✗ 3

39448427792. ✗ 4

Question Number : 149 Question Id : 3944847226 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

A box contains 5 red and 3 green and 4 black balls. Two balls are drawn in succession without replacement. Then, the probability that they are green and black in color is

ఒక పెట్టెలో 5 ఎర్రని, 3 ఆకుపచ్చని మరియు 4 నల్లని బంతులున్నాయి. రెండు బంతులను వరుసగా తీస్తే, (తిరిగి చేర్చకుండా), అవి ఆకుపచ్చని మరియు నల్లనివి అయ్యే సంభావ్యత

1) $\frac{1}{11}$

2) $\frac{1}{12}$

3) $\frac{7}{60}$

4) $\frac{1}{5}$

Options :

39448427793. ✓ 1

39448427794. ✗ 2

39448427795. ✗ 3

39448427796. ✗ 4

Question Number : 150 Question Id : 3944847227 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యికశాస్త్ర సామర్థ్యత

If A and B are two events such that $P(A) = \frac{3}{8}$; $P(B) = \frac{1}{3}$ and $P(A \cap B) = \frac{1}{4}$

Then $P(\bar{A} \cap \bar{B}) =$

$P(A) = \frac{3}{8}$; $P(B) = \frac{1}{3}$ మరియు $P(A \cap B) = \frac{1}{4}$ అయ్యే విధంగా ఉన్న రెండు

ఘటనలు A, B లు అయినప్పుడు, $P(\bar{A} \cap \bar{B}) =$

1) $\frac{17}{24}$

2) $\frac{13}{24}$

3) $\frac{11}{24}$

4) $\frac{5}{12}$

Options :

39448427797. ✖ 1

39448427798. ✔ 2

39448427799. ✖ 3

39448427800. ✖ 4

Communication Ability

Section Id :

394484105

Section Number :

3

Section type :

Online

Mandatory or Optional :

Mandatory

Number of Questions :

38

Number of Questions to be attempted :

38

Section Marks : 50
Enable Mark as Answered Mark for Review and Clear Response : Yes
Sub-Section Number : 1
Sub-Section Id : 394484728
Question Shuffling Allowed : Yes

Question Number : 151 Question Id : 3944847228 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Incredible

- 1) unintentional
- 2) unbelievable
- 3) incremental
- 4) believable

Options :

39448427801. ✖ 1
39448427802. ✔ 2
39448427803. ✖ 3
39448427804. ✖ 4

Question Number : 152 Question Id : 3944847229 Question Type : MCQ Option

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Contentious

- 1) amicable
- 2) contented
- 3) controversial
- 4) agreeable

Options :

39448427805. ✖ 1

39448427806. ✖ 2

39448427807. ✔ 3

39448427808. ✖ 4

Question Number : 153 Question Id : 3944847230 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Imperative

- 1) inoperative
- 2) unimportant
- 3) cooperative
- 4) essential

Options :

39448427809. ✖ 1

39448427810. ✖ 2

39448427811. ✖ 3

39448427812. ✔ 4

Question Number : 154 Question Id : 3944847231 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Retrograde

- 1) progressive
- 2) degrading
- 3) regressive
- 4) upgrading

Options :

39448427813. ✖ 1

39448427814. ✖ 2

39448427815. ✔ 3

39448427816. ✖ 4

Question Number : 155 Question Id : 3944847232 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Lethargic

- 1) spirited
- 2) allergic
- 3) lazy
- 4) depressive

Options :

39448427817. ✖ 1

39448427818. ✖ 2

39448427819. ✔ 3

39448427820. ✖ 4

Question Number : 156 Question Id : 3944847233 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Tactical

- 1) joined
- 2) calculated
- 3) immediate
- 4) extreme

Options :

39448427821. ✖ 1

39448427822. ✔ 2

39448427823. ✖ 3

39448427824. ✖ 4

Sub-Section Number :

2

Sub-Section Id :

394484729

Question Shuffling Allowed :

Yes

Question Number : 157 Question Id : 3944847234 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

A critical judge of any art and craft is _____ .

- 1) connoisseur
- 2) critic
- 3) craftsman
- 4) notice

Options :

39448427825. ✓ 1

39448427826. ✗ 2

39448427827. ✗ 3

39448427828. ✗ 4

Question Number : 158 Question Id : 3944847235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

A person who attacks popular beliefs or established customs is a/an _____.

- 1) rationalist
- 2) revisionist
- 3) iconoclast
- 4) propagandist

Options :

39448427829. ✖ 1

39448427830. ✖ 2

39448427831. ✔ 3

39448427832. ✖ 4

Question Number : 159 Question Id : 3944847236 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Our boss is interested in making money and nothing else. Behind all his actions, he has a _____ motive.

- 1) gluttonous
- 2) mercenary
- 3) universal
- 4) mechanical

Options :

39448427833. ✖ 1

39448427834. ✔ 2

39448427835. ✖ 3

39448427836. ✖ 4

Question Number : 160 Question Id : 3944847237 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

I tried in vain to please him by all means. But he appears to be quite _____.

1) amenable

2) agreeable

3) fastidious

4) pleasing

Options :

39448427837. ✖ 1

39448427838. ✖ 2

39448427839. ✔ 3

39448427840. ✖ 4

Sub-Section Number :

3

Sub-Section Id :

394484730

Question Shuffling Allowed :

Yes

Question Number : 161 Question Id : 3944847238 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

The full form of LOGO is _____.

- 1) Language of Government Order
- 2) Language of Grammar Orientation
- 3) Language of Graphics-Oriented
- 4) Language of Graphics of Organization

Options :

39448427841. ✖ 1

39448427842. ✖ 2

39448427843. ✔ 3

39448427844. ✖ 4

Question Number : 162 Question Id : 3944847239 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Liability is _____.

- 1) Something a company or a person owns
- 2) Assets accumulated by a company
- 3) Loan of a person or company has paid
- 4) A sum of money a person or company owes

Options :

39448427845. ✖ 1

39448427846. ✖ 2

39448427847. ✖ 3

39448427848. ✔ 4

Question Number : 163 Question Id : 3944847240 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

The assets and cash in a business are called _____.

- 1) credit
- 2) capital
- 3) debit
- 4) subsidy

Options :

39448427849. ✖ 1

39448427850. ✔ 2

39448427851. ✖ 3

39448427852. ✖ 4

Question Number : 164 Question Id : 3944847241 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

A kilobaud is _____.

- 1) one hundred bits per second
- 2) one thousand bits per second
- 3) one lakh bits per minute
- 4) ten thousand bits per second

Options :

39448427853. ✖ 1

39448427854. ✔ 2

39448427855. ✖ 3

39448427856. ✖ 4

Question Number : 165 Question Id : 3944847242 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

A financial statement that reports a company's assets, liabilities and shareholders' equity at a given time is called _____.

- 1) finance sheet
- 2) ledger book
- 3) profits and loss account
- 4) balance sheet

Options :

39448427857. ✖ 1

39448427858. ✖ 2

39448427859. ✖ 3

39448427860. ✔ 4

Question Number : 166 Question Id : 3944847243 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Pictorial representation of step by step sequence for solving a problem is called _____.

- 1) graphics
- 2) photoshop
- 3) flow chart
- 4) pie chart

Options :

39448427861. ✖ 1

39448427862. ✖ 2

39448427863. ✔ 3

39448427864. ✖ 4

Question Number : 167 Question Id : 3944847244 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

A failure or flaw in the software programme is called _____.

- 1) byte
- 2) bug
- 3) virus
- 4) anti-virus

Options :

39448427865. ✖ 1

39448427866. ✔ 2

39448427867. ✖ 3

39448427868. ✖ 4

Question Number : 168 Question Id : 3944847245 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

One gigabyte is equal to _____.

- 1) 1024 bytes
- 2) 1024 kilobytes
- 3) 1024 bits
- 4) 1024 megabytes

Options :

39448427869. ✖ 1

39448427870. ✖ 2

39448427871. ✖ 3

39448427872. ✔ 4

Question Number : 169 Question Id : 3944847246 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

ROM stands for _____.

- 1) Random Open Memory
- 2) Read Only Memory
- 3) Rapid Only Memory
- 4) Running Of Memory

Options :

39448427873. ✖ 1

39448427874. ✔ 2

39448427875. ✖ 3

39448427876. ✖ 4

Question Number : 170 Question Id : 3944847247 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

HTML stands for _____.

- 1) Hyper Text for Multilevel Language
- 2) Hourly Terminal for Marked Language
- 3) Hypertext Markup Language
- 4) Marked Language for Hyper Text

Options :

39448427877. ✖ 1

39448427878. ✖ 2

39448427879. ✔ 3

39448427880. ✖ 4

Sub-Section Number : 4

Sub-Section Id : 394484731

Question Shuffling Allowed : Yes

Question Number : 171 Question Id : 3944847248 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

A: My new car cost me an arm and a leg.

'A' means that the car _____

- 1) caused an accident
- 2) was very expensive
- 3) was too small for him
- 4) gave him pain in the arm and leg

Options :

39448427881. ✖ 1

39448427882. ✔ 2

39448427883. ✖ 3

39448427884. ✖ 4

Question Number : 172 Question Id : 3944847249 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

A: I know she is working full-time. How is she able to teach her kids for two days?

B: She is capable of managing to get the best of both worlds.

- 1) She is not able to cope with the work
- 2) She is the worst sufferer
- 3) She is able to enjoy twin opportunities
- 4) She works hard in vain

Options :

39448427885. ✖ 1

39448427886. ✖ 2

39448427887. ✔ 3

39448427888. ✖ 4

Question Number : 173 Question Id : 3944847250 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

The car hit the boy and to add insult to injury it drove off without stopping.

The underlined idiom means

- 1) to rake up the wound
- 2) to make the matters worse
- 3) to disobey the police
- 4) to insult the wounded

Options :

39448427889. ✖ 1

39448427890. ✔ 2

39448427891. ✖ 3

39448427892. ✖ 4

Question Number : 174 Question Id : 3944847251 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Change the following sentence into passive voice:

“Open the door.”

- 1) He ordered to open the door.
- 2) Let us open the door.
- 3) Let the door be opened.
- 4) The door may be opened.

Options :

39448427893. ✖ 1

39448427894. ✖ 2

39448427895. ✔ 3

39448427896. ✖ 4

Question Number : 175 Question Id : 3944847252 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Change the following sentence into indirect speech

He said to his son, "Cross the road always at zebra crossing."

- 1) He advised his son to cross the road always at zebra crossing.
- 2) He commanded his son that he should cross the road always at zebra crossing.
- 3) He told his son, let the road always be crossed at zebra crossing.
- 4) He advised his son not to cross the road at zebra crossing.

Options :

39448427897. ✓ 1

39448427898. ✗ 2

39448427899. ✗ 3

39448427900. ✗ 4

Question Number : 176 Question Id : 3944847253 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

One of the students _____ brilliant.

1) have

2) were

3) is

4) are

Options :

39448427901. ✖ 1

39448427902. ✖ 2

39448427903. ✔ 3

39448427904. ✖ 4

Question Number : 177 Question Id : 3944847254 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

He was murdered in cold blood.

The underlined idiom means

- 1) coolly
- 2) happily
- 3) deliberately
- 4) ruthlessly

Options :

39448427905. ✖ 1

39448427906. ✖ 2

39448427907. ✖ 3

39448427908. ✔ 4

Sub-Section Number :

5

Sub-Section Id :

394484732

Question Shuffling Allowed :

Yes

Question Number : 178 Question Id : 3944847255 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

I was late to the office as the car _____.

- 1) broke off
- 2) broke down
- 3) broke up
- 4) broke

Options :

39448427909. ✖ 1

39448427910. ✔ 2

39448427911. ✖ 3

39448427912. ✖ 4

Question Number : 179 Question Id : 3944847256 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

We ____ to our holidays.

- 1) look forward
- 2) look through
- 3) look on
- 4) look

Options :

39448427913. ✓ 1

39448427914. ✗ 2

39448427915. ✗ 3

39448427916. ✗ 4

Question Number : 180 Question Id : 3944847257 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

This work is _____.

- 1) the best of the two
- 2) good of the two
- 3) the better of the two
- 4) better of two

Options :

39448427917. ✖ 1

39448427918. ✖ 2

39448427919. ✔ 3

39448427920. ✖ 4

Question Number : 181 Question Id : 3944847258 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Though I shouted, there was no response from the old man. He seems to be hard ____ hearing.

1) on

2) off

3) of

4) at

Options :

39448427921. ✖ 1

39448427922. ✖ 2

39448427923. ✔ 3

39448427924. ✖ 4

Question Number : 182 Question Id : 3944847259 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

I don't know how she puts _____ his cruelty.

- 1) off
- 2) up
- 3) upon
- 4) up with

Options :

39448427925. ✖ 1

39448427926. ✖ 2

39448427927. ✖ 3

39448427928. ✔ 4

Question Number : 183 Question Id : 3944847260 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

I'd rather ____ than go to a movie in this pandemic situation.

- 1) stayed home
- 2) stayed at home
- 3) stay home
- 4) stay at home

Options :

39448427929. ✖ 1

39448427930. ✖ 2

39448427931. ✔ 3

39448427932. ✖ 4

Question Number : 184 Question Id : 3944847261 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

Dinesh has been working in this institution ____ 2009.

1) from

2) for

3) since

4) at

Options :

39448427933. ✖ 1

39448427934. ✖ 2

39448427935. ✔ 3

39448427936. ✖ 4

Question Number : 185 Question Id : 3944847262 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/correct meaning of the word/Fill in the blanks with correct word / verb/phrase/preposition.

No sooner had I reached the station, _____ the train arrived.

- 1) then
- 2) when
- 3) than
- 4) immediately

Options :

39448427937. ✖ 1

39448427938. ✖ 2

39448427939. ✔ 3

39448427940. ✖ 4

Sub-Section Number :

6

Sub-Section Id :

394484733

Question Shuffling Allowed :

Yes

Question Id : 3944847263 Question Type : COMPREHENSION Sub Question Shuffling Allowed :

Yes Group Comprehension Questions : No

Question Numbers : (186 to 190)

Read the following passage and answer the questions.

The ability to speak in words and to enunciate clearly is a blessing which the creator has bestowed on man alone. No other living creature can speak. This is a blessing which should be highly prized and respected. The English language as well as the organised languages of other people, and nations, is replete with words which carry every conceivable shade of meaning. It is possible to choose the right words; word which will attract and not repel. There is no excuse for the careless use of words which will offend the sensibilities of others. The appropriate use of words is regarded as a sign of education and culture. The person who is able to use the proper words at the proper time has developed a very important factor in the achievement of a pleasing personality. While the inappropriate use of words can repel, the appropriate use of words, together with a pleasing and motivating tone for voice and pleasant facial expression, can go a long way toward gaining for one the attention, respect, confidence and liking of other persons.

Sub questions

Question Number : 186 Question Id : 3944847264 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What can man alone do?

- 1) Walk
- 2) Eat
- 3) Swim
- 4) Speak

Options :

39448427941. ✖ 1

39448427942. ✖ 2

39448427943. ✖ 3

39448427944. ✔ 4

Question Number : 187 Question Id : 3944847265 Question Type : M

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the nature of an 'organised language'?

- 1) It is semantically rich
- 2) It is spoken
- 3) It is written
- 4) It is read

Options :

39448427945. ✓ 1

39448427946. ✗ 2

39448427947. ✗ 3

39448427948. ✗ 4

Question Number : 188 Question Id : 3944847266 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Why is it necessary to use appropriate words?

- 1) To show-off one's vocabulary
- 2) To get a bad name from others
- 3) To foster good relationships
- 4) To increase one's fluency

Options :

39448427949. ✗ 1

39448427950. ✗ 2

39448427951. ✓ 3

39448427952. ✗ 4

Question Number : 189 Question Id : 3944847267 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is inexcusable?

- 1) Inability to read
- 2) To motivate others
- 3) Inappropriate use of words
- 4) To attract others

Options :

39448427953. ✖ 1

39448427954. ✖ 2

39448427955. ✔ 3

39448427956. ✖ 4

Question Number : 190 Question Id : 3944847268 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Appropriate use of words is a sign of

- 1) education and culture
- 2) religion
- 3) social status
- 4) nobility

Options :

39448427957. ✔ 1

39448427958. ✖ 2

39448427959. ✖ 3

39448427960. ✖ 4

Sub-Section Number : 7

Sub-Section Id : 394484734

Question Shuffling Allowed : Yes

Question Id : 3944847269 Question Type : COMPREHENSION Sub Question Shuffling : No

Yes Group Comprehension Questions : No

Question Numbers : (191 to 195)

Read the following passage and answer the questions.

When I worked in a second-hand book shop—so easily pictured, if you don't work in one, as a kind of paradise, where charming old gentlemen browse eternally among calf-bound folios - the thing that chiefly struck me was the rarity of really bookish people. Our shop had exceptionally interesting stock, yet I doubt whether ten percent of our customers knew a good book from a bad one. First edition snobs were much commoner than lovers of literature, but oriental students haggling over cheap text books were commoner still, and vague-minded women looking for birthday presents for their nephews were commonest of all.

Many of the people who came to us were of the kind who would be nuisance anywhere but have special opportunities in a bookshop. For example, the dear old lady who 'wants a book for an invalid (a very common demand, that), and the other dear old lady who read such a nice book in 1897 and wonders whether you can find her a copy. Unfortunately she does not remember the title or the author's name or what the book was about, but she does remember that it had a red cover. But, apart from these there are two well-known types of pest by whom every second hand bookshop is haunted. One is the decayed person smelling of old bread crusts who comes every day, sometimes several times a day, and tries to sell you worthless books. The other is the person who orders large quantities of books for which he has not the smallest intention of paying. In our shop we sold nothing on credit, but we would put books aside, or order them if necessary, for people who arranged to fetch them away later. Scarcely half the people who ordered books from us ever came back.

Sub questions

Question Number : 191 Question Id : 3944847270 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

what do you mean by “calf-bound folios”?

- 1) Books bound in hard leather
- 2) Books bound in soft leather
- 3) Books carried on calves
- 4) unbound books

Options :

39448427961. ✖ 1

39448427962. ✔ 2

39448427963. ✖ 3

39448427964. ✖ 4

Question Number : 192 Question Id : 3944847271 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What did the author discover in the second-hand book shop?

- 1) regularity of book lovers
- 2) rarity of good books
- 3) rarity of book lovers
- 4) non-availability of rare books

Options :

39448427965. ✖ 1

39448427966. ✖ 2

39448427967. ✔ 3

39448427968. ✖ 4

Question Number : 193 Question Id : 3944847272 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What does the author mean by “First edition snobs”?

- 1) Those who buy first editions of books with great interest
- 2) Those who do not buy first editions of books
- 3) Those who buy first editions of books to spend money
- 4) Those who buy first editions of books without any concern for their real value

Options :

39448427969. ✖ 1

39448427970. ✖ 2

39448427971. ✖ 3

39448427972. ✔ 4

Question Number : 194 Question Id : 3944847273 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The tone of the author in the passage is

- 1) serious
- 2) half-hearted
- 3) ironical
- 4) ridiculous

Options :

39448427973. ✖ 1

39448427974. ✖ 2

39448427975. ✔ 3

39448427976. ✖ 4

Question Number : 195 Question Id : 3944847274 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

“Unfortunately she does not remember the title or the author’s name or what the book was about, but she does remember that it had a red cover.” What does it tell about the lady?

- 1) She likes the cover of the book
- 2) She likes the author
- 3) She is very much interested in reading the book
- 4) Her interest in the book is superficial

Options :

39448427977. ✖ 1

39448427978. ✖ 2

39448427979. ✖ 3

39448427980. ✔ 4

Sub-Section Number :

Sub-Section Id :

394484735

Question Shuffling Allowed :

Yes

Question Id : 3944847275 Question Type : COMPREHENSION Sub Question Shuffling Allowed :

Yes Group Comprehension Questions : No

Question Numbers : (196 to 200)

Read the following passage and answer the questions.

Since we now know what a terrible evil war is, we must spare no effort to prevent its recurrence.

To this reason must also be added an ethical one: In this course of the last two wars, we have been guilty of acts of inhumanity which make one shudder, and in any future war we would certainly be guilty of even worse. This must not happen!

Let us dare to face the situation. Man has become superman. He is a superman because he not only has at his disposal innate physical forces, but also commands, thanks to scientific and technological advances, the latent forces of nature which he can now put to his own use. To kill at a distance, man used to rely solely on his own physical strength; he used to bend the bow and to release the arrow. The superman has progressed to the stage where he can use the energy released by the combustion of a given combination of chemical products. This enables him to employ a much more effective projectile and to propel it over far greater distances.

However, the superman suffers from a fatal flaw. He has failed to rise to the level of superhuman reason which should match that of his superhuman strength. He requires such reason to put this vast power to solely reasonable and useful ends and not to destructive and murderous ones. Because he lacks it, the conquests of science and technology become a mortal danger to him rather than a blessing.

Sub questions

Question Number : 196 Question Id : 3944847276 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

“This must not happen” what does this refer to in the passage?

- 1) Large scale human slaughter
- 2) Man becoming a superman
- 3) Scientific advancements
- 4) Controlling natural forces

Options :

39448427981. ✓ 1

39448427982. ✗ 2

39448427983. ✗ 3

39448427984. ✗ 4

Question Number : 197 Question Id : 3944847277 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Man has become a 'super man', because of _____

- 1) His ethical reasoning
- 2) Waging huge wars
- 3) His physical strength
- 4) His command of natural forces

Options :

39448427985. ✖ 1

39448427986. ✖ 2

39448427987. ✖ 3

39448427988. ✔ 4

Question Number : 198 Question Id : 3944847278 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the 'fatal flaw' of the super man

- 1) Inability to use effective projectiles
- 2) Inability to rise to the level of lord of super human strength
- 3) Inability to harness his strength for the welfare of humanity
- 4) Inability to control the innate strength

Options :

39448427989. ✖ 1

39448427990. ✖ 2

39448427991. ✔ 3

39448427992. ✖ 4

Question Number : 199 Question Id : 3944847279 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the author's opinion, the scientific and technological conquests have turned out to be _____
to the humanity.

1) a super human force

2) a book

3) a bane

4) an aid

Options :

39448427993. ✖ 1

39448427994. ✖ 2

39448427995. ✔ 3

39448427996. ✖ 4

Question Number : 200 Question Id : 3944847280 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What does the author think of war in the modern context?

- 1) A proof of man's ability to kill from a distance
- 2) A proof of his superhuman strength
- 3) A proof of his super human reason
- 4) A terrible evil

Options :

39448427997. ✖ 1

39448427998. ✖ 2

39448427999. ✖ 3

39448428000. ✔ 4

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