



Centurion
UNIVERSITY

CENTURION POLYTECHNIC

DIPLOMA ENTRANCE TEST 2015-16



QUESTION BOOKLET

INSTRUCTIONS

Roll Number

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Please read the following instructions carefully:

1. Mention carefully your Roll Number, Question Booklet number in the OMR Answer Sheet and sign at the appropriate place. Write your Roll Number on the question booklet.
2. Strictly follow the instructions given by the Centre Supervisor/ Room Invigilator and those given on the Question Booklet.
3. Please mark the answer ONLY with a Black/Blue Ball Point Pen on the OMR Answer Sheet.
4. Candidates are not allowed to carry any papers, notes, books, log table, calculators or calculating devices, scanning devices, communication devices like cellular phone/pager/duopen, etc. to the examination hall. Any candidate found using, or in possession of such unauthorized material, indulging in copying or impersonation, adopting unfair means is liable to be summarily disqualified and may be subjected to penal action.
5. After finishing the examination, hand over the complete question booklet and OMR Answer Sheet to the Room Invigilator. DO NOT carry the question booklet or any part there of outside the examination room. Doing so, is a punishable offence.
6. The test is of objective type. This Question Booklet contains three parts, with a total of 180 questions and the total time allotted is 2.00 hours.
7. Each objective type question is followed by four responses. Your task is to choose the correct/best

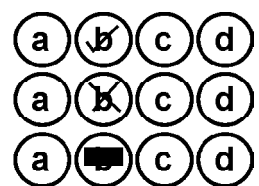
response and mark your response by darkening the relevant CIRCLE with Black/Blue Ball Point Pen on the OMR Answer Sheet and do not on the Question Booklet.

8. All questions are COMPULSORY. There will be "No NEGATIVE MARKING".
9. Completely darken the CIRCLE so that the number inside the CIRCLE is not visible. Darken ONLY ONE CIRCLE for each answer as shown in the example below. The CORRECT and the WRONG method of darkening the CIRCLE on the OMR sheet is given below.

CORRECT Method



WRONG Method



10. DO NOT make any stray marks anywhere on the OMR answer sheet. DO NOT fold or wrinkle the OMR answer sheet. Rough work MUST NOT be done on the answer sheet. Use your test booklet for this purpose.
11. In case you notice any questions missing in the question booklet, kindly bring it to the attention of the Invigilator.

Space for rough work

1. $0.3010 \times 10 = ?$
(a) 0.30100 (b) 3.010 (c) 30.10 (d) 30.100
2. The price of a pen was Rs.5 in 1995. How much price will be now if the price index is 140%.
(a) Rs.6 (b) Rs.7 (c) Rs.8 (d) Rs.9
3. $15689 - 12534 + 8972 = ?$
(a) 12131 (b) 12127 (c) 13127 (d) 12138
4. Find out $5^3 - 2^3 = ?$
(a) 117 (b) 17 (c) 8 (d) 133
5. If $x = 5$, $y = 4$, then $2x + y = ?$
(a) 14 (b) 9 (c) 13 (d) 11
6. What should be added to 88.19 to get 97.32 ?
(a) 9.13 (b) 9.33 (c) 11.23 (d) 9.03
7. $\frac{3}{4} + \frac{4}{5} + 1\frac{1}{2} = ?$
(a) $\frac{51}{20}$ (b) $\frac{34}{20}$ (c) $\frac{10}{11}$ (d) None of these
8. $4712 + 33889 - ? = 7148$
(a) 843 (b) 853 (c) 953 (d) 1053
9. $\frac{4}{6} \times \frac{18}{14} \times \frac{8}{6} = ?$
(a) $\frac{8}{7}$ (b) $\frac{4}{7}$ (c) $\frac{9}{14}$ (d) $\frac{18}{7}$
10. $\frac{50 - 21 \times 2}{18 \times 6 - 4} = ?$
(a) $\frac{1}{15}$ (b) $\frac{2}{9}$ (c) $\frac{29}{52}$ (d) $\frac{29}{18}$
11. $5809 + 7138 - 4125 = ?$
(a) 8812 (b) 8102 (c) 8922 (d) 8921
12. The product of two number is 180, if one number is 6 then find out the other number ?
(a) 33 (b) 30 (c) 25 (d) 35
13. $\frac{12345}{567} = ?$
(a) 21.7724 (b) 59.6078 (c) 88.1089 (d) 12.9105
14. $8514 + 3028 + 1213 = ?$
(a) 12855 (b) 12755 (c) 12935 (d) 12665
15. In a school 70% students are girls. The number of boys are 510. Then the total number of students in the school is.
(a) 850 (b) 1700 (c) 1830 (d) 1900
16. The average of five numbers is 27. If one number is excluded, the average becomes 25. The excluded number is.
(a) 25 (b) 27 (c) 30 (d) 35
17. A person sells two machines at Rs.369 each. On one he gains 10% and on the other he losses 10%. His profit or loss in the whole transaction is.
(a) No loss, no gain (b) 1% loss
(c) 1% profit (d) 8% profit
18. The simple interests on a certain sum at 5% per annum for 3 years and 4 years differ by Rs.42. The sum is.
(a) Rs.210 (b) Rs.280 (c) Rs.750 (d) Rs.840
19. Find out : 16% of 500.
(a) 80 (b) 40 (c) 8 (d) 50
20. Which of the following is the largest ?
(a) 0.105 (b) 0.501 (c) 0.015 (d) 0.15
21. $7.86 \times 4.6 = ?$
(a) 36.156 (b) 36.216 (c) 351.56 (d) 361.56
22. A train moves with a speed of 72 kmph. Its speed in m/sec is.
(a) 20 (b) $\frac{5}{18}$ (c) $\frac{18}{5}$ (d) 7
23. A soccer team played 160 games & won 65 percent of them. How many games did it win ?
(a) 94 (b) 104 (c) 114 (d) 124
24. 32 is 40 percent of what number ?
(a) 12.8 (b) 128 (c) 80 (d) 800
25. $3\frac{1}{3} - 2\frac{2}{5} = ?$
(a) $1\frac{1}{2}$ (b) $\frac{1}{15}$ (c) $\frac{14}{15}$ (d) $1\frac{1}{15}$
26. $2\frac{1}{2} - 4\frac{2}{3} = ?$
(a) $6\frac{1}{6}$ (b) $6\frac{5}{6}$ (c) $7\frac{1}{6}$ (d) $7\frac{5}{6}$

27. The measure of two angles of a triangle are 35° & 45° . What is the measure of third angle of the triangle ?
 (a) 95° (b) 100° (c) 105° (d) 110°
28. Erica bought $3\frac{1}{2}$ yards of fabric. If she uses $\frac{2}{3}$ of the fabric to make a curtain, how much will she have left ?
 (a) $\frac{1}{6}yd$ (b) $\frac{1}{3}yd$ (c) $1\frac{1}{6}yd$ (d) $2\frac{1}{3}yd$
29. $(4)^4 = ?$
 (a) 512 (b) 224 (c) - 256 (d) 256
30. If $M = 2$, then value of $M - 2$ is ?
 (a) 0 (b) 2 (c) 1 (d) 4
31. $256 = ?$
 (a) 2^9 (b) 2^6 (c) 2^7 (d) 2^8
32. $72 = ?$
 (a) $2^3 \times 3^5$ (b) $2^3 \times 3^3$ (c) $2^2 \times 3^2$ (d) $2^3 \times 3^2$
33. $(-5)^4 = ?$
 (a) 5 (b) 25 (c) 125 (d) 625
34. A car covers a distance of 320 km in 2 hours. The average distance covered by it in 1 hour is ?
 (a) 40 km (b) 160 km (c) 15 km (d) 220 km
35. Ramu deposits Rs.3,500 in his bank account & withdraws Rs.2,450 from it, the next day. The balance in Ramu's account after the withdrawal is ?
 (a) Rs.1150 (b) Rs.1050 (c) Rs.1250 (d) Rs.950
36. $(-36) \div (-9) = ?$
 (a) -4 (b) 4 (c) 0 (d) 9
37. The value of $2\frac{2}{3} + 4\frac{2}{3}$ is.
 (a) $\frac{37}{2}$ (b) $\frac{35}{6}$ (c) $\frac{41}{6}$ (d) $\frac{43}{6}$
38. If $N + 5 = 19$, then the value of N is ?
 (a) 8 (b) 14 (c) 12 (d) 10
39. The value of $(\frac{2}{5} \text{ of } 25)$ is ?
 (a) 10 (b) 15 (c) 5 (d) 12
40. If $20 = 6 + 2x$, then the value of x is .
 (a) 5 (b) 7 (c) 4 (d) 1
41. One morning after sunrise, Gangadhar was standing facing a pole. The shadow of the pole fell exactly to his right, which direction was he facing ?
 (a) East (b) West (c) South (d) North
42. If PAGES is written as SEGAP than STATE will be written as
 (a) ETATS (b) STTAE (c) ETSAT (d) TATSE
43. If WHITE is written as YHKVG then EXAM will be written as.
 (a) GCZO (b) GYBO (c) GZCO (d) GZBO
44. 1, 3, 7, 15, 31, 63, 127, ?
 (a) 250 (b) 150 (c) 225 (d) 255 (e) 350
45. 10, 18, 26, 34, ?, 50
 (a) 48 (b) 42 (c) 63 (d) 72 (e) 81
46. A C A E A G A I A ?
 (a) N (b) K (c) P (d) Q
47. 4, 9, 16, 25, ?
 (a) 30 (b) 32 (c) 36 (d) 40
48. Four amongst the following five are some how similar and from a group. Which one does not belong to the group ?
 (a) CEG (b) IKM (c) PRT (d) QOM (e) UWY
49. Ram goes 10 meter East, then turn left and goes 5 meters, then turn left again, goes 10 meters ahead and then turn left again and goes 10 meters. In which direction Ram was from his position in the beginning ?
 (a) North (b) South (c) East (d) West

Odd man-out

50. (a) SRT (b) PQO (c) KJL (d) VUW (e) FEG
51. (a) MNOM (b) BDCB (c) XZYX (d) PRQP (e) GIHG
52. (a) KNQR (b) CFIJ (c) MPST (d) NQTU (e) OQUR
53. (a) JKL (b) PQR (c) STU (d) EFG (e) XBE
54. (a) DBE (b) HIF (c) NOL (d) RTP (e) TUR
55. If S x T means 'S' is brother of 'T' and S + T means 'S' is father of 'T'. Which of the following shows 'O' is the cousin of 'R' ?
 (a) R x T + O (b) R + T x O (c) R x O x T (d) T x O + R (e) None of these

56. How many 5's are there in the following number sequence which are immediately followed by 3 but not immediately preceded by 7 ?
8953253855687335775365337538
(a) one (b) two
(c) three (d) four (e) None of these
57. Sudin remembers that his mother's birthday is after 15th but before 20th of April, while his sister Kalpira remembers that her mother's birthday is before 22nd but after 18th of April. If both of them are correct, which date is the birthday of their mother ?
(a) 18th (b) 19th (c) 20th (d) 16th (e) 17th
58. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to the group ?
(a) listen (b) walk (c) run (d) swim (e) climb
59. Prakash started walking from a point P towards south. After walking 40 metres, he took a left turn. He then walked 30 meters and reached a point Q. What is the straight line distance between P and Q and Q is towards which direction of P ?
(a) 60 meters south-east (b) 50 meters south-west
(c) 50 meters south-east (d) Data inadequate
(e) None of these
60. If '+' means division, '-' means addition, 'x' means subtraction and '÷' means multiplication, then
 $8 \div 4 - 6 + 3 \times 4 = ?$
(a) 18 (b) 14 (c) 16 (d) 26
61. If in a certain code language BUILDING is written as ZNCALCDQ and REPEAT is written as EGSGMV, how is DINE written in that code ?
(a) LDCG (b) LDDG (c) LCGD (d) LDGC
62. 'A' is taller than 'B' but shorter than 'C', 'D' is shorter than 'E' and 'E' is not as tall as 'B'. Who should be in the middle if they stand in a row according to their height ?
(a) B (b) A (c) D (d) E
63. If '+' means 'x', '-' means '÷', 'x' means '-', and '÷' means '+' then,
 $10 \div 40 - 4 \times 5 + 2 = ?$
(a) 12 (b) 10 (c) 14 (d) 16
64. Pointing to a boy in the photograph, Rajat said, 'His mother is the only daughter of my grandfather's only son'. How is the boy's mother related to Rajat's father ?
(a) Mother (b) Daughter
(c) Grand daughter (d) Daughter-in-law
65. In a certain code language DIVIDERS is coded as 49229451819 in the same way how SREDIVID will be coded ?
(a) 19185492294 (b) 19181543224
(c) 19184529294 (d) 19185143294
66. In a certain code language TEST is coded as UGVX in the same way how ROSE will be coded ?
(a) PQVE (b) SQVI (c) SPVI (d) QPVE
67. If MLC = ONE then, BME = ?
(a) DOG (b) CAT (c) TWO (d) SIX
68. 3, 15, 35, ?, 99, 143
(a) 63 (b) 45 (c) 65 (d) 72
69. 128, 110, 90, ?, 52
(a) 82 (b) 88 (c) 72 (d) 75
70. 5, 11, 17, 25, 33, 43, ?
(a) 53 (b) 58 (c) 56 (d) 43
71. Who is the Chief Minister of Delhi ?
(a) Seela Dixit (b) Narendra Damodar Modi
(c) Arabind Kejeriwal (d) Sruti Irani
72. Who is the Governor of Odisha ?
(a) S. C. Jamir (b) Janaki Bahlav Pattnaik
(c) Bbupinder Singh (d) Nabeen Pattnaik
73. Lingaraj temple is located at.
(a) Puri (b) Bhubaneswar
(c) Cuttack (d) Lingaraj Nagar
74. Who is the President of India ?
(a) Narendra Damodar Modi
(b) Pranab Mukharje
(c) Manmohan Singh
(d) Sonia Gandhi
75. Which language speak in Odisha ?
(a) Odia (b) Bengali (c) Hindi (d) Santali
76. Tajmahal is situated at ?
(a) Delhi (b) Punjab (c) Agra (d) Mathura
77. To become a citizen of India what is the minimum age required ?
(a) 20 (b) 18 (c) 14 (d) 30
78. Chief Minister of Odisha is nominated by ?
(a) President of India
(b) Governor of Odisha
(c) Prime Minister of India
(d) None of these

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79. Why is 15th August is very important for India ?
(a) India got Independence on this day
(b) India won the war against Pakistan
(c) India made atom bomb on this day
(d) None of these
80. Which one of the following is our neighbouring country ?
(a) Nepal (b) Thailand (c) Iran (d) America
81. Sania Mirza is related to which sports ?
(a) Cricket (b) Hockey (c) Tennis (d) Badminton
82. Who invented Telephone ?
(a) Graham Bell (b) Charles Babbage
(c) Alexander Fleming (d) None of these
83. QutubMinar is the tallest minar in India. Who had built this minar ?
(a) Iltutmish (b) Akbar
(c) Qutubuddin Aibak (d) None of these
84. Which one of the following is the widest river in the world ?
(a) Ganga (b) Brahmaputra
(c) Nile (d) Amazon
85. What is the capital of Odisha ?
(a) Cuttack (b) Bhubaneswar
(c) Sambalpur (d) Keonjhar
86. When did our constitution came to in force ?
(a) 15th August, 1947 (b) 26th January 1947
(c) 26th January, 1950 (d) 26th January 1951
87. Which of the following is not a Fundamental Right as per Indian constitution ?
(a) Right to freedom
(b) Right to religion
(c) Right to property
(d) Right to equality
88. Who is the present president of National Congress ?
(a) Sonia Gandhi (b) Rahul Gandhi
(c) Manmohan Singh (d) None of these
89. How many colours in the National Flag of India?
(a) One (b) Four (c) Three (d) Seven
90. What is the name of the currency of Bangladesh ?
(a) Rupee (b) Taka (c) Yen (d) Lira
91. What is the name of the currency of India ?
(a) Euro (b) Rupee
(c) Pound (d) Dollar
92. Who is the present Finance Minister of India ?
(a) Arun Jaitley
(b) P. Chitambaram
(c) Manmohan Singh
(d) Sushama Swaraj
93. What is the name of our national Flower ?
(a) Lotus (b) Rose (c) Lily (d) Jasmin
94. Gupteswar Temple is located at which district?
(a) Sambalpur (b) Koraput
(c) Dhenkanal (d) Cuttack
95. Place where Lord Buddha dies is known as.
(a) Kushinagar (b) Sarnath
(c) Kapilvastu (d) Bodh Gaya
96. On which day Netajee Jayanti is observed ?
(a) 22nd February
(b) 23rd January
(c) 26th January
(d) None of these
97. The National Anthem 'Jana-Gana-Man' was originally composed in which language ?
(a) Odia (b) Bengali (c) Hindi (d) Sanskrit
98. The National song 'Bande Mataram' was composed by ?
(a) Rabindranath Tagore
(b) Bankim Chandra Chatterji
(c) Raja Ram Mohan Ray
(d) Lal Bahadur Sashtri
99. The National Animal of India is ?
(a) Tiger (b) Lion (c) Elephant (d) Leopard
100. The brightest planet in our solar system ?
(a) Jupiter (b) Venus (c) Mars (d) Mercury
101. Who is the Father of our Nation ?
(a) Subash Chandra Bose
(b) Mahatma Gandhi
(c) Sardar Vallabh Bhai Patel
(d) Bal Gangadhar Tilak
102. Who is known as Iron man of India ?
(a) Gobind Ballabh Pant
(b) Jawaharlal Nehru
(c) Subash Chandra Bose
(d) Sardar Vallabh Bhai Patel
103. Professor Amartya Sen is famous in which field ?
(a) Biochemistry (b) Electronics
(c) Economics (d) Geology
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Directions:

Find out the opposite words of the following words from four alternative words.

104. LARGE
(a) small (b) big (c) long (d) short
105. GOOD
(a) better (b) fine (c) bad (d) worse
106. SMILE
(a) laugh (b) crying (c) sought (d) loud
107. TAKE
(a) give (b) bring (c) donate (d) gift
108. MAKE
(a) create (b) destroy (c) readymade (d) doing

Directions: Find out the past tense of the following verbs.

109. GO
(a) went (b) gone
(c) going (d) None of these
110. EAT
(a) eating (b) ate
(c) eaten (d) None of these
111. COME
(a) came (b) come
(c) coming (d) None of these
112. DO
(a) did (b) done
(c) doing (d) None of these
113. RUN
(a) ran (b) raned
(c) running (d) None of these

Directions: Fill the blanks from the four alternative.

114. We go to Church _____ Sunday morning.
(a) in (b) on (c) when (d) with
115. Keep this secret _____ everybody.
(a) to (b) on (c) from (d) by
116. The tiger jumped _____ the ring of fire.
(a) in (b) by (c) through (d) with
117. The glass in the window was _____ by your football.
(a) breaks (b) broke (c) broken (d) breaking

118. Did you take a nap _____ the afternoon.
(a) in (b) on (c) as (d) at
119. _____ was she looking for in the cupboard ?
(a) what (b) how (c) when (d) where
120. He can play the piano _____ he takes lessons from a music teacher.
(a) but (b) because (c) by (d) with
121. When we arrived _____ the zoo it started to rain.
(a) in (b) to (c) by (d) at
122. We found the way through the forest by _____.
(a) myself (b) himself (c) ourselves (d) themselves
123. We must study hard. It is for _____ good.
(a) my (b) his (c) your (d) our
124. The maid _____ the car every Sunday.
(a) polishes (b) polished (c) polishing (d) polish
125. This house will _____ you two million dollars.
(a) costs (b) cost (c) costed (d) costing
126. Neither Bob nor James can _____ the guitar.
(a) play (b) plays (c) played (d) playing
127. Mabel's mother _____ to the gym once every fortnight.
(a) go (b) going (c) goes (d) went
128. The soldiers had to crawl _____ a hole in the fence.
(a) cross (b) through (c) between (d) under
129. Ben _____ television shortly before you returned home.
(a) watches (b) watch (c) watching (d) was watching
130. This cocktail tastes much _____ than the other.
(a) good (b) best (c) better (d) gooder
131. Kimberly found the test difficult _____ she did not give up.
(a) and (b) on (c) so (d) but
132. The tiger pounced _____ the unsuspecting deer.
(a) into (b) on (c) above (d) between
133. By age 14, my son was already taller than _____.
(a) I (b) me (c) myself (d) mine
134. It is raining. The boys are taking shelter _____ the bridge.
(a) under (b) on (c) above (d) beside
135. She _____ whenever her brother makes a funny face.
(a) laughs (b) laughed (c) laughing (d) is laughing

136. John is happy _____ he has won a scholarship to England
(a) why (b) but (c) when (d) because
137. Why are you doing this to _____ ?
(a) you (b) yourself (c) your (d) himself
138. Each brave soldier _____ a medal next Saturday.
(a) receive (b) receives (c) will receiver (d) received
139. Take a queue number and wait _____ your turn.
(a) on (b) for (c) by (d) with
140. I did not meet him because he came _____ I left.
(a) and (b) after (c) before (d) when
141. He showed the policeman _____ the fight took place.
(a) what (b) when (c) where (d) what
142. To _____ is this letter for ?
(a) who (b) whom (c) which (d) whose
143. That girl with spectacles _____ still our class perfect.
(a) is (b) was (c) are (d) were
144. The scientific name of salt is.
(a) Potassium oxide (b) Sodium Chloride
(c) Calcium Chloride (d) None of These
145. Laser stands for.
(a) light amplification by stimulated emission of radiation
(b) light amplification emission radiation
(c) lightstrulation radiation
(d) None of These
146. The highest energy gap is in case of.
(a) conductor (b) insulator
(c) semiconductor (d) None of These
147. PN junction is called as.
(a) semiconductor (b) crystal diode
(c) both (a) and (b) (d) None of These
148. A transistor consists of how many semiconductor diode / PN junction.
(a) 2 (b) 3 (c) 4 (d) None of These
149. Which type of crystal are generally good optical reflectors ?
(a) Metal (b) Ionic crystals
(c) Covalent crystals (d) None of These
150. Diamond is very hard because
(a) it is a covalent solid
(b) it has large cohesive energy
(c) it has melting point
(d) it is insoluble in all solvents
151. In insulators
(a) the valence band is partially filled with electrons
(b) the conduction band is partly filled with electrons
(c) the conduction band is filled with electrons and valence band is empty
(d) the conduction band is empty and the valence band is filled with
152. In a p-n-p transistor the <<-type crystal acts as
(a) emitter (b) base (c) collector (d) gate
153. In a common emitter transistor the current gain is
(a) one (b) more than one
(c) less than one (d) infinite
154. n-type semiconductor is obtained by doping intrinsic Germanium by
(a) Phosphorus (b) Aluminium
(c) Boron (d) Gold
155. A pure semiconductor has
(a) an infinite resistance at 0°C
(b) a finite resistance which does not depend upon temperature.
(c) a finite resistance which decreases with temperature
(d) a finite resistance which increases with temperature
156. The transistors are made up of
(a) copper (b) silicon
(c) aluminium (d) constanton
157. When a triod is used as an amplifier the phase difference between the input voltage signal and the output is
(a) zero (b) π (c) $\frac{\pi}{4}$ (d) $\frac{\pi}{2}$
158. An oxide coated filament emits election at lower temperature because its work function is.
(a) zero (b) low (c) high (d) infinite
159. Zener diodes are used for
(a) rectification
(b) amplification
(c) stabilisation of voltage
(d) production of carrier waves

160. Two equal positive charges are kept at point A and B. Then if one moves from A to B along the line joining these charges, the potential will :
 (a) continuously decrease
 (b) continuously increase
 (c) decrease first and then increase
 (d) increase first and then decrease
161. What is the angle between the electric dipole moment and the electric field strength due to it on the equatorial line ?
 (a) 0° (b) 90° (c) 180° (d) None of these
162. Electric potential of earth is taken to be zero, because earth is a good:
 (a) insulator (b) conductor
 (c) semi-conductor (d) dielectric
163. A body can be negative charged by:
 (a) giving excess of electrons to it
 (b) removing some electrons from it
 (c) giving some protons to it
 (d) removing some neutrons from it
164. Select the correct statement:
 (a) the total charge of the universe is constant
 (b) the total number of the charged particles is constant
 (c) the total positive charge of the universe remains constant
 (d) the total negative charge of the universe remains constant
165. The capacity of a parallel plate capacitor depends on :
 (a) nature of the metal of the plates
 (b) thickness of the plates
 (c) distance between the plates
 (d) potential difference between the plates
166. Through a metallic conductor electric current is thought to be a movement of :
 (a) ions (b) amperes
 (c) electrons (d) protons
167. The particles that conduct electricity through a solution of an electrolyte are called:
 (a) electrons (b) protons
 (c) ions (d) atoms
168. The ampere-sec stands for the unit of:
 (a) power (b) current
 (c) energy (d) charge
169. The current carrying wire is :
 (a) negatively charged (b) positively charged
 (c) neutral (d) sometimes positively and sometimes negatively charged
170. Unit of resistance is :
 (a) Volt/amp (b) Volt^2/amp (c) Volt/amp^2 (d) Volt
171. The resistivity of a wire depends on its :
 (a) length (b) area of cross-section
 (c) shape (d) material
172. An electric bulb is rated 220 volt and 100 watt. Power consumed by it when operated on 110 volt is :
 (a) 50 watt (b) 75 watt (c) 90 watt (d) 25 watt
173. The element of an electric heater is made of :
 (a) copper (b) platinum (c) nichrome (d) tungsten
174. The fuse-wire is made of :
 (a) copper (b) tungsten (c) lead-tin alloy (d) nichrome
175. When a magnet is heated
 (a) it loses its magnetism
 (b) it gains magnetism
 (c) neither loses nor gains magnetism
 (d) none of the above is correct
176. The unit of pole strength is
 (a) ampere-meter² (b) ampere-meter
 (c) ampere/meter (d) ampere/meter²
177. A permanent magnet
 (a) attracts all substance
 (b) attracts only ferromagnetic substances
 (c) attracts only ferromagnetic substance and repels all other
 (d) attracts some substances and repels other
178. Magnetic field is a
 (a) vector quantity (b) scalar quantity
 (c) both (d) None of these
179. Retentivity is maximum for
 (a) steel (b) soft iron
 (c) copper (d) brass
180. Which of the following is most suitable for the core of electromagnets
 (a) air (b) soft iron
 (c) steel (d) Cu-Ni alloy

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Space for rough work

DIPLOMA ENTRANCE TEST 2015-16

ANSWER SHEET

- | | | | |
|-------|-------|-------|-------|
| 1. B | | | |
| 2. B | 26. G | 50. B | 74. B |
| 3. B | 27. B | 51. A | 75. A |
| 4. B | 28. C | 52. G | 76. C |
| 5. A | 29. D | 53. G | 77. B |
| 6. A | 30. A | 54. G | 78. D |
| 7. A | 31. D | 55. C | 79. A |
| 8. D | 32. D | 56. C | 80. A |
| 9. G | 33. D | 57. B | 81. C |
| 10. A | 34. B | 58. A | 82. A |
| 11. G | 35. B | 59. C | 83. C |
| 12. G | 36. B | 60. C | 84. D |
| 13. B | 37. G | 61. G | 85. B |
| 14. A | 38. B | 62. A | 86. C |
| 15. B | 39. A | 63. B | 87. C |
| 16. D | 40. B | 64. B | 88. A |
| 17. B | 41. C | 65. A | 89. C |
| 18. D | 42. A | 66. B | 90. B |
| 19. A | 43. C | 67. A | 91. B |
| 20. B | 44. D | 68. A | 92. A |
| 21. A | 45. B | 69. C | 93. A |
| 22. A | 46. B | 70. A | 94. B |
| 23. B | 47. C | 71. C | 95. A |
| 24. C | 48. D | 72. A | 96. B |
| 25. C | 49. B | 73. B | 97. B |

- | | | |
|--------|--------|--------|
| 98. B | 126. A | 154. A |
| 99. A | 127. C | 155. C |
| 100. B | 128. B | 156. D |
| 101. B | 129. D | 157. D |
| 102. D | 130. C | 158. B |
| 103. C | 131. B | 159. A |
| 104. A | 132. B | 160. B |
| 105. C | 133. B | 161. A |
| 106. B | 134. A | 162. B |
| 107. A | 135. A | 163. A |
| 108. B | 136. B | 164. A |
| 109. A | 137. B | 165. C |
| 110. B | 138. C | 166. C |
| 111. A | 139. B | 167. C |
| 112. A | 140. B | 168. D |
| 113. A | 141. C | 169. B |
| 114. B | 142. B | 170. A |
| 115. C | 143. A | 171. D |
| 116. C | 144. A | 172. D |
| 117. C | 145. A | 173. C |
| 118. A | 146. B | 174. C |
| 119. A | 147. B | 175. A |
| 120. D | 148. B | 176. B |
| 121. D | 149. B | 177. B |
| 122. C | 150. A | 178. A |
| 123. D | 151. B | 179. A |
| 124. A | 152. D | 180. B |
| 125. B | 153. D | |

NOTE:-G
means Grace
mark, as
option E was
not available
in OMR
sheet.