

UCEED 2026 Question Paper with Solutions

Time Allowed :3 Hours	Maximum Marks :300	Total Questions :57
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General Instructions

Read the following instructions very carefully and strictly follow them:

1. There will be ONE question paper of total THREE hours duration.
2. The question paper will be in English only.
3. The question paper will carry a total of 300 marks.
4. The question paper will consist of two parts: Part-A and Part-B. It is compulsory to attempt questions from both parts.
5. Part-A (Total marks: 200; Maximum time: 2 hours)
6. This part will be administered through a computer-based test.
7. This part will consist of three sections.
8. Section 1: NAT (Numerical Answer Type): 14 questions (4 marks each; no negative marks).
9. Section 2: MSQ (Multiple Select Question): 15 questions.
10. Section 3: MCQ (Multiple Choice Question): 28 questions (3 marks each for the correct answer; 0.71 negative marks for incorrect answers).

1. If five men can build a house in 27 days, how long will it take nine men to build the same house, assuming they all work at the same rate?

Correct Answer: 15 days

Solution:

Step 1: Understanding the Question:

This is a classic work and time problem. The amount of work (building one house) is constant. The number of men is inversely proportional to the number of days required to complete the work. This means that if you increase the number of men, the time taken will decrease.

Step 2: Key Formula or Approach:

The formula for inverse proportion in work problems is:

$$M_1 \times D_1 = M_2 \times D_2$$

Where:

- M_1 is the initial number of men.

- D_1 is the initial number of days.
- M_2 is the new number of men.
- D_2 is the new number of days we need to find.

Alternatively, we can calculate the total "man-days" required for the job.

Step 3: Detailed Explanation:

Method 1: Using the formula

Given values:

$$M_1 = 5 \text{ men}$$

$$D_1 = 27 \text{ days}$$

$$M_2 = 9 \text{ men}$$

We need to find D_2 .

Substituting the values into the formula:

$$5 \times 27 = 9 \times D_2$$

$$135 = 9 \times D_2$$

$$D_2 = \frac{135}{9}$$

$$D_2 = 15$$

Method 2: Using the Man-Days concept

First, calculate the total work required in "man-days":

$$\text{Total Work} = (\text{Number of men}) \times (\text{Number of days})$$

$$\text{Total Work} = 5 \times 27 = 135 \text{ man-days.}$$

This means the job requires 135 man-days of effort to complete.

Now, calculate how many days it will take for 9 men to complete this amount of work:

$$\text{Days required} = \frac{\text{Total Work}}{\text{New Number of men}}$$

$$\text{Days required} = \frac{135}{9} = 15 \text{ days.}$$

Step 4: Final Answer:

It will take nine men 15 days to build the same house.

💡 Quick Tip

In work-related problems, always determine if the relationship is one of direct or inverse proportion. More workers for the same job means less time (inverse), while more work for the same number of workers means more time (direct).

2. Count the number of fonts used in the given set of words.

The term "ergonomics" can simply be defined as the study of work. It is the science of fitting jobs to the people who work in them. Adapting the job to fit the worker can help reduce ergonomic stress and eliminate many potential ergonomic disorders

Correct Answer: 2 fonts

Solution:

Step 1: Understanding the Question:

The question asks to identify the number of different fonts (or typefaces) used in the provided text block. A font is characterized by its design, such as serif (with small lines at the end of strokes, like Times New Roman) or sans-serif (without these lines, like Arial). Variations like bold or italic are styles of the same font.

Step 2: Detailed Explanation:

Let's analyze the text:

1. The first sentence, "The term "ergonomics" can simply be defined as the study of work.", is written in a **serif font**. The letters have small decorative strokes at the ends. The word "ergonomics" is a bolded version of this same serif font.
2. The remaining three lines ("It is the science of fitting jobs...", "Adapting the job...", "and eliminate many potential...") are written in a different font. This font is a **sans-serif font**, and it is presented in a bold style. It lacks the decorative strokes of the first font.

Step 3: Final Answer:

Since there is one serif font and one sans-serif font, there are a total of 2 different fonts used.

💡 Quick Tip

Distinguish between a font (typeface family, e.g., Arial) and a font style (e.g., bold, italic, regular). The question usually refers to the font family. The two most basic categories to look for are serif and sans-serif.

3. The ages of a group of people are: 34, 27, 36, 18, 15, 72, 67, 12, 24, 45. What percentage of people in the group are above the average age for the group?

Correct Answer: 40%

Solution:

Step 1: Understanding the Question:

The problem asks for two main calculations: first, find the average age of the group, and second, determine what percentage of the people in the group have an age greater than this average.

Step 2: Key Formula or Approach:

1. Average (Mean):

$$\text{Average} = \frac{\text{Sum of all values}}{\text{Number of values}}$$

2. Percentage:

$$\text{Percentage} = \left(\frac{\text{Number of people above average}}{\text{Total number of people}} \right) \times 100\%$$

Step 3: Detailed Explanation:**Part 1: Calculate the average age**

The given ages are: 34, 27, 36, 18, 15, 72, 67, 12, 24, 45.

Total number of people = 10.

Sum of ages = $34 + 27 + 36 + 18 + 15 + 72 + 67 + 12 + 24 + 45$.

Sum of ages = 350.

Average age = $\frac{350}{10} = 35$ years.

Part 2: Calculate the percentage of people above the average age

The average age is 35. We need to count how many people are older than 35.

Let's check the ages:

34 (not above), 27 (not above), **36** (above), 18 (not above), 15 (not above), **72** (above), **67** (above), 12 (not above), 24 (not above), **45** (above).

The ages above 35 are 36, 72, 67, and 45.

Number of people with age above average = 4.

Now, calculate the percentage:

Percentage = $\left(\frac{4}{10}\right) \times 100\%$

Percentage = $0.4 \times 100\% = 40\%$.

Step 4: Final Answer:

40% of the people in the group are above the average age.

💡 Quick Tip

When calculating the percentage of values 'above' or 'below' an average, be careful not to include values that are exactly equal to the average.

4. Enumerate the number of spelling mistakes in the following paragraph:

Memory of childhood are unforgettable. I was four year old when my grandfather died. I clearly remember how everybody in the house was weping. Ones my mother love me very much when I had a bad dream. I brook my leg and was in plaster for two month. These and other memory still come on the iner screen of my mind very often.

Correct Answer: 11 mistakes

Solution:**Step 1: Understanding the Question:**

The task is to identify and count the number of spelling and grammatical errors in the provided paragraph. The given answer is 11, which implies we should look for both clear spelling mistakes and significant grammatical errors that would be considered mistakes in a proofreading context.

Step 2: Detailed Explanation:

Let's go through the paragraph sentence by sentence and identify the mistakes:

1. **childhod** → **childhood** (Spelling mistake).
2. **are** → **is** (Grammatical mistake: Subject-verb agreement. "Memory" is singular).
3. **unforgettable** → **unforgettable** (Spelling mistake).
4. **year** → **years** (Grammatical mistake: "four" requires a plural noun).
5. **weping** → **weeping** (Spelling mistake).
6. **Ones** → **Once** (Spelling/usage mistake).
7. **love** → **loved** (Grammatical mistake: Tense should be past tense to match the context of the story).
8. **brook** → **broke** (Spelling/usage mistake: Incorrect past tense form).
9. **month** → **months** (Grammatical mistake: "two" requires a plural noun).
10. **memory** → **memories** (Grammatical mistake: "These and other" requires a plural noun).
11. **iner** → **inner** (Spelling mistake).

Step 3: Final Answer:

Counting all the identified spelling and grammatical errors, we find a total of 11 mistakes, which matches the provided answer.

💡 Quick Tip

In questions asking for "mistakes," check for both spelling and common grammatical errors like subject-verb agreement, tense consistency, and pluralization. Read the text slowly, word by word.

5. Which of the following terms are related to Architecture?

- (A) Vernacular
- (B) Pragmatic
- (C) Arcade
- (D) Fenestration

Correct Answer: (A, C, D)

Solution:

Step 1: Understanding the Question:

The question requires identifying which of the given terms are specifically used in the field of architecture.

Step 2: Detailed Explanation:

Let's analyze each option:

- **(A) Vernacular:** Vernacular architecture is a category of architecture based on local needs, construction materials, and reflecting local traditions. It's architecture without professional architects that is specific to a region. This is an architectural term.
- **(B) Pragmatic:** This term means dealing with things sensibly and realistically in a way that is based on practical rather than theoretical considerations. While a design can be pragmatic, it is a general philosophical or descriptive term, not a specific term related to the elements or styles of architecture.
- **(C) Arcade:** In architecture, an arcade is a succession of arches, each counter-thrusting the next, supported by columns or piers. This is a fundamental architectural element.
- **(D) Fenestration:** This term refers to the design, construction, and placement of windows, doors, and other openings in a building. It is a key concept in architectural design and building science.

Step 3: Final Answer:

Based on the analysis, Vernacular, Arcade, and Fenestration are all terms related to architecture. Therefore, options A, C, and D are correct.

Quick Tip

When faced with terminology questions, try to recall the specific context in which you've heard the words. Architectural terms often describe elements (arcade), styles (vernacular), or processes (fenestration) of building design.

6. The words 'Satyameva Jayate' inscribed below the base plate of the emblem of India are taken from

- (A) Rigveda
- (B) Ramayana
- (C) Mundak Upanishad
- (D) Satpath Bhramana

Correct Answer: (C) Mundak Upanishad

Solution:

Step 1: Understanding the Question:

The question asks for the scriptural source of the national motto of India, "Satyameva Jayate".

Step 2: Detailed Explanation:

"Satyameva Jayate" is a mantra from the ancient Indian scripture Mundaka Upanishad. The phrase translates to "Truth alone triumphs". It was adopted as the national motto of India on 26 January 1950, the day India became a republic. The motto is inscribed in the Devanagari script at the base of the Lion Capital of Ashoka, which is the official Emblem of India.

Step 3: Final Answer:

The correct source for "Satyameva Jayate" is the Mundak Upanishad.

💡 Quick Tip

Important national symbols, mottos, and their origins are frequently asked questions in general knowledge sections of competitive exams. It's beneficial to memorize these key facts about your country.

7. Which of the following statements is/are true?

- (A) Lucknow is famous for Chikankari work which is a traditional art of embroidery.
- (B) Chikankari literally means embroidery.
- (C) It was originally done with a white thread on a white cloth, hence the name 'white embroidery'.
- (D) Only the embroidery, with white thread on white cloth, is called chikankari.

Correct Answer: (A, B, C)

Solution:

Step 1: Understanding the Question:

The question requires us to evaluate four statements about the traditional Indian embroidery style known as Chikankari and determine which ones are true.

Step 2: Detailed Explanation:

Let's examine each statement:

- **(A) Lucknow is famous for Chikankari work which is a traditional art of embroidery.** This statement is **true**. The city of Lucknow in Uttar Pradesh is globally renowned as the hub for Chikankari embroidery. It has been granted Geographical Indication (GI) status.
- **(B) Chikankari literally means embroidery.** This statement is considered **true** in a general sense. The word 'Chikan' is believed to be derived from a Persian word 'Chakeen',

which means to create delicate patterns on fabric. Thus, it essentially translates to embroidery work.

- **(C) It was originally done with a white thread on a white cloth, hence the name 'white embroidery'.** This statement is **true**. Traditionally, Chikankari was a form of white-on-white embroidery, created on fabrics like muslin. This classic style is still highly valued.
- **(D) Only the embroidery, with white thread on white cloth, is called chikankari.** This statement is **false**. The word "Only" makes the statement incorrect. While it originated as white-on-white, modern Chikankari has evolved to include embroidery with colored threads on a variety of colored fabrics to meet contemporary fashion demands. The technique, not the color scheme, defines Chikankari.

Step 3: Final Answer:

Statements A, B, and C are true, while statement D is false. Therefore, the correct answer includes A, B, and C.

Quick Tip

In multiple-choice questions, be cautious of absolute words like "only," "always," "never," or "all." They often make a statement overly restrictive and, therefore, false.