

# AP EAPCET 2026 May 20 Shift 1

## Question Paper (Memory Based)

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### General Instructions

- (i) The test is of 3 hours duration.
- (ii) This test paper consists of 160 questions. The maximum marks are 160.
- (iii) Physics and Chemistry contains 40 questions each and Biology contains 80 questions.
- (iv) Each question carries +1 marks for correct answer and there is no negative marking for wrong answer.

### Physics

1. The measured value of a quantity is 98 units, while the true value is 100 units. The percentage error is:

- (A) 1%
- (B) 2%
- (C) 3%
- (D) 4%

2. The velocity-time graph of a particle is given by  $v = 4t$ . The acceleration is:

- (A)  $2 \text{ m/s}^2$
- (B)  $4 \text{ m/s}^2$
- (C)  $8 \text{ m/s}^2$

(D) Variable

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3. A force  $F = 6t$  acts on a body of mass 2 kg initially at rest. Find velocity at  $t = 2$  s.

- (A) 3 m/s
  - (B) 6 m/s
  - (C) 9 m/s
  - (D) 12 m/s
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4. At what depth inside Earth does  $g$  become half of its surface value? (Earth radius =  $R$ )

- (A)  $R/2$
  - (B)  $R/4$
  - (C)  $3R/4$
  - (D)  $R$
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## Chemistry

5. Which of the following pairs of gaseous contains the same number of molecules

- (A) 11g of  $CO_2$  and 7g of  $N_2$
  - (B) 44g of  $CO_2$  and 14g of  $N_2$
  - (C) 22g of  $CO_2$  and 28g of  $N_2$
  - (D) All the above pairs of gases
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6. Calculate the amount of  $CO_2$  gas produced, when 32g of  $CH_4$  is burned with sufficient amount of oxygen ( Given atomic weight of  $C=12$ ,  $O=16$  and  $H=1$ )

- (A) 132g
  - (B) 44g
  - (C) 88g
  - (D) 176g
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## Botany

**7. In a marine ecosystem, a specific brown alga is found to possess air bladders to maintain buoyancy near the water surface. This plant is likely:**

- (A) Polysiphonia
  - (B) Fucus
  - (C) Gelidium
  - (D) Porphyra
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**8. In an urban garden, a student observes a plant where more than two leaves arise at each node, forming a circle. This phyllotaxy is seen in:**

- (A) Alstonia
  - (B) Hibiscus
  - (C) Calotropis
  - (D) Guava
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**9. While studying wood anatomy, a student finds that the annual rings are less distinct in trees located in which region?**

- (A) Temperate forests
- (B) Tropical rain forests near the equator
- (C) Grasslands with distinct seasons

(D) Alpine cold deserts

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## Zoology

**10. Who introduced the term "Genetics" to the scientific community?**

- (A) Gregor Mendel
  - (B) William Bateson
  - (C) Herbert Spencer
  - (D) Ernst Haeckel
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**11. Pentamerous radial symmetry is a characteristic feature primarily observed in:**

- (A) Ctenophores
  - (B) Larval stages of Echinoderms
  - (C) Sea Anemones
  - (D) Adult Echinoderms
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**12. Which of the following is an example of an Anadromous fish (migrates from sea to fresh water to spawn)?**

- (A) Labeo
  - (B) Hilsa
  - (C) Anguilla
  - (D) Channa
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