

# TS EAMCET 2026 May 4 Shift 1

## Question Paper (Memory-Based)

Conducted by National Testing Agency (NTA)



### General Instructions

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- (i) The test is of 3 hours duration.
- (ii) This test paper consists of 160 questions. The maximum marks are 720.
- (iii) Physics and Chemistry contains 40 questions each and Biology (Botany and Zoology) contains 80 questions.
- (iv) Each question carries +1 marks for correct answer and there is no negative marking for wrong answer.

1. Which one of the following is the correct description for a mature embryo sac?

- (A) 7 nuclei and 8 cells
- (B) 8 nuclei and 8 cells
- (C) 8 nuclei and 7 cells
- (D) 7 nuclei and 7 cells

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2. Edible part of Ginger is:

- (A) Root
- (B) Leaf
- (C) Stem
- (D) Flower

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3. Which enzyme is responsible for primary CO<sub>2</sub> fixation in C<sub>4</sub> plants?

- (A) RuBisCO
  - (B) PEP carboxylase (PEP)
  - (C) Carbonic anhydrase
  - (D) Pyruvate kinase
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**4. The process of plasmolysis occurs when:**

- (A) Water moves into the cell
  - (B) Water moves out of the cell
  - (C) No movement of water
  - (D) Cell wall dissolves
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**5. Which of the following is a criterion for essentiality of an element in plants?**

- (A) It must be present in high concentration
  - (B) It must be easily available in soil
  - (C) The element must be directly involved in metabolism
  - (D) It must be required for aesthetic value
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**6. The largest gland in the human body is:**

- (A) Pancreas
  - (B) Liver
  - (C) Thyroid
  - (D) Adrenal
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**7. Powerhouse of the cell is known as:**

- (A) Nucleus
- (B) Ribosome

- (C) Mitochondria
  - (D) Golgi body
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**8. Which of the following is a flightless bird?**

- (A) Sparrow
  - (B) Pigeon
  - (C) Ostrich
  - (D) Peacock
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**9. Total number of bones in the adult human body is:**

- (A) 200
  - (B) 206
  - (C) 210
  - (D) 250
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**10. Which hormone is responsible for the "fight or flight" response?**

- (A) Insulin
  - (B) Thyroxine
  - (C) Adrenaline
  - (D) Estrogen
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**11. Dimensions of Universal Gravitational Constant (G) are:**

- (A)  $[M^{-1}L^3T^{-2}]$
- (B)  $[ML^2T^{-2}]$
- (C)  $[M^{-2}L^3T^{-1}]$
- (D)  $[M^1L^3T^{-2}]$

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**12. A body starts from rest and moves with uniform acceleration. The ratio of distance covered in 4th and 3rd seconds is:**

- (A) 4:3
- (B) 7:5
- (C) 16:9
- (D) 5:7

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**13. The work done by a centripetal force is:**

- (A) Positive
- (B) Negative
- (C) Zero
- (D) Infinite

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**14. The escape velocity from the Earth's surface is approximately:**

- (A) 9.8 km/s
- (B) 7.2 km/s
- (C) 15 km/s
- (D) 11.2 km/s

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**15. The unit of coefficient of viscosity is:**

- (A) Newton
- (B) Poise
- (C) Joule
- (D) Watt

16. Which of the following has the highest electronegativity?

- (A) Oxygen
  - (B) Chlorine
  - (C) Fluorine
  - (D) Nitrogen
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17. The oxidation state of Mn in  $KMnO_4$  is:

- (A) +7
  - (B) +6
  - (C) +5
  - (D) +4
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18. Which gas is used in the manufacture of Vanaspati Ghee?

- (A) Oxygen
  - (B) Nitrogen
  - (C) Hydrogen
  - (D) Carbon dioxide
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19. The shape of  $CH_4$  (Methane) molecule is:

- (A) Linear
  - (B) Tetrahedral
  - (C) Square planar
  - (D) Pyramidal
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20. Which of the following is an amphoteric oxide?

(A)  $Na_2O$

(B)  $SO_2$

(C)  $Al_2O_3$

(D)  $CaO$

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