

# TS EAMCET 2026 May 5 Shift 1

## Question Paper (Memory-Based)

Conducted by JNTU, Hyderabad



### 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 of the following is a non-reducing sugar?

- (A) Glucose
- (B) Fructose
- (C) Maltose
- (D) Sucrose

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2. Double fertilisation is a characteristic feature of:

- (A) Gymnosperms
- (B) Algae
- (C) Angiosperms
- (D) Pteridophytes

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3. The Kranz anatomy is associated with which type of photosynthesis?

- (A)  $C_3$  pathway
  - (B)  $C_4$  pathway
  - (C) CAM pathway
  - (D) Both  $C_3$  and CAM
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**4. Which plant hormone promotes fruit ripening?**

- (A) Auxin
  - (B) Gibberellin
  - (C) Cytokinin
  - (D) Ethylene
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**5. Vernalisation refers to:**

- (A) Dormancy in seeds
  - (B) Flowering induced by cold temperature
  - (C) Leaf fall in autumn
  - (D) Stem elongation
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**6. Synaptic vesicles in neurons contain:**

- (A) Hormones
  - (B) Neurotransmitters
  - (C) Enzymes
  - (D) DNA
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**7. The kidney's functional unit is the:**

- (A) Nephron
- (B) Pyramid

- (C) Cortex
  - (D) Pelvis
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**8. Which part of the brain controls body temperature?**

- (A) Cerebellum
  - (B) Medulla oblongata
  - (C) Hypothalamus
  - (D) Thalamus
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**9. Which of the following is an autosomal recessive disorder?**

- (A) Haemophilia
  - (B) Turner syndrome
  - (C) Phenylketonuria (PKU)
  - (D) Down syndrome
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**10. The 'golden age of reptiles' is associated with which era?**

- (A) Cenozoic
  - (B) Mesozoic
  - (C) Palaeozoic
  - (D) Proterozoic
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**11. In Young's double slit — if slit separation is halved and screen distance doubled, fringe width becomes:**

- (A) Halved
- (B) Doubled
- (C) 4 times

(D) Unchanged

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**12. The SI unit of self-inductance is:**

- (A) Farad
  - (B) Tesla
  - (C) Henry
  - (D) Weber
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**13. Which quantum number determines the shape of an orbital?**

- (A) Principal quantum number (n)
  - (B) Azimuthal quantum number (l)
  - (C) Magnetic quantum number (m)
  - (D) Spin quantum number (s)
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**14. In photoelectric effect, the stopping potential depends on:**

- (A) Intensity of light
  - (B) Frequency of incident light
  - (C) Work function only
  - (D) Both frequency and work function
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**15. Angle of minimum deviation for a prism — the ray inside the prism:**

- (A) Passes parallel to the base from outside
- (B) Refracts at only one surface
- (C) Travels parallel to the base inside
- (D) Undergoes total internal reflection

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16.  $KMnO_4$  is a:

- (A) Primary standard
- (B) Secondary standard
- (C) Neither
- (D) Reducing agent in acidic medium

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17. Raoult's law: vapour pressure of a solution is:

- (A) Equal to vapour pressure of pure solvent
- (B) Proportional to mole fraction of solvent
- (C) Independent of temperature
- (D) Proportional to mole fraction of solute

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18. The rate-determining step in a reaction mechanism is the:

- (A) Fastest step
- (B) Slowest step
- (C) Last step
- (D) First step always

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19. Aspirin is synthesised from:

- (A) Salicylic acid + Acetic anhydride
- (B) Phenol +  $HNO_3$
- (C) Benzene +  $Cl_2$
- (D) Toluene +  $KMnO_4$

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20. The Nernst equation relates the EMF of a cell to:

- (A) Temperature only
  - (B) Concentration of ions and temperature
  - (C) Pressure only
  - (D) Standard potential only
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