

Code No.

**V – 2381**

**Common Entrance Examination for Admission to Four Year Under  
Graduate Programmes in the Teaching Departments of the  
University of Kerala, 2025**

**CSS  
BIOLOGY**

For office use only

**General Instructions**

1. The Question Paper is having **40 Objective Questions**, each carrying **Four marks**.
2. The answers are to be (✓) 'tick marked' only in the "Response Sheet" provided.
3. **Negative marking : 1 mark will be deducted for each wrong answer.**

**Time : 1 Hour****Max. Marks : 160**

To be filled in by the Candidate

Register Number	in Figures										
	in words										

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Choose appropriate answer from the options in the questions.

**(40 × 4 = 160 marks)**

1. Caecilians belongs to which of the following class:
  - A. Reptiles
  - B. Amphibians
  - C. Fishes
  - D. Mammals

DO NOT WRITE HERE

- 
2. Which of the following is a Ramsar site in Kerala?
- |             |              |
|-------------|--------------|
| A. Kottoli  | B. Payyannur |
| C. Vembanad | D. Tirur     |
3. Which national park protects Nilgiri Tahr exclusively?
- |              |                  |
|--------------|------------------|
| A. Periyar   | B. Silent valley |
| C. Mudumalai | D. Eravikulam    |
4. What kind of respiratory mechanism is found in the frog?
- |                 |                      |
|-----------------|----------------------|
| A. Lung         | B. Cutaneous         |
| C. Both A and B | D. None of the above |

5. Which organelle is called the "Power house of the cell"?
- A. Golgi bodies
  - B. Mitochondria
  - C. Endoplasmic reticulum
  - D. Ribosome
6. Translation happens within:
- A. Ribosomes
  - B. Golgi bodies
  - C. Centrioles
  - D. Nucleus
7. The building blocks of proteins are:
- A. Glucose
  - B. Amino acids
  - C. Fatty acids
  - D. Plasma
8. Which part of the brain mainly controls hunger?
- A. Hypothalamus
  - B. Cerebellum
  - C. Cerebrum
  - D. Medulla
9. Of the following, which animal is radially symmetric?
- A. Crocodile
  - B. Buffalo
  - C. Star fish
  - D. Shark
10. The right side of the heart pushes blood through the lungs in the
- A. Systemic circuit
  - B. Posterior circuit
  - C. Anterior circuit
  - D. Pulmonary circuit

11. Nitrogen excretion strategy of mammals is:
- A. Ureotelism
  - B. Uricotelism
  - C. Ammoniotelism
  - D. None of these
12. Name the disease caused due to uric acid metabolism issues:
- A. Gout
  - B. Emphysema
  - C. Tetanus
  - D. Gravis
13. What structure attaches muscles to the skeleton?
- A. Ligaments
  - B. Tendons
  - C. Cartilage
  - D. Meniscus
14. High levels of TSH usually means:
- A. Hyperthyroidism
  - B. Gout
  - C. Hypothyroidism
  - D. None of the above
15. Leutinizing hormone is produced by:
- A. Adrenal medulla
  - B. Pituitary gland
  - C. Pineal gland
  - D. Parathyroid gland
16. Downs syndrome is also known as:
- A. Trisomy 21
  - B. Trisomy 23
  - C. Trisomy 18
  - D. Trisomy 22

17. Which of the following statements is false in the case of Eukaryotic DNA?
- A. It is circular
  - B. It is double stranded
  - C. It is linear
  - D. It is packed with histone proteins
18. What is an example of convergent evolution?
- A. Wings of bats, birds, insects
  - B. Darwin finches
  - C. Limbs of bats and humans
  - D. None of the above
19. Which of the following is the only bt crop commercialized in India?
- A. bt brinjal
  - B. bt carrot
  - C. bt cauliflower
  - D. bt cotton
20. What is the relationship between cattle egrets and cows called?
- A. Competition
  - B. Mutualism
  - C. Commensalism
  - D. Parasitism
21. As we go higher from species to the Kingdom, the number of common characteristics/features/similar traits goes on
- A. decreasing
  - B. increasing
  - C. remains constant
  - D. none of these

22. The roots that originate from the base of the stem are \_\_\_\_\_.  
A. Lateral roots  
B. Fibrous roots  
C. Primary roots  
D. Prop roots
23. In grasses, certain adaxial epidermal cells along the veins modify themselves into large, empty, colourless cells called \_\_\_\_\_.  
A. Lenticels  
B. Bulliform cells  
C. Bundle sheath cells  
D. Mesophyll cells
24. Which one of the following plants shows diadelphous stamens?  
A. Pea  
B. Brinjal  
C. Lily  
D. Citrus
25. In some leguminous plants the leaf base may become swollen, which is called \_\_\_\_\_.  
A. Petiole  
B. Pedicel  
C. Pulvinus  
D. Peduncle
26. The reaction centre in PS II has an absorption maxima at  
A. 680 nm  
B. 700 nm  
C. 660 nm  
D. 780 nm
27. Kranz anatomy is observed in  
A. C<sub>2</sub> plants  
B. C<sub>3</sub> plants  
C. C<sub>4</sub> plants  
D. None of these

28. Choose the correct pair from the following:
- A. Exonucleases : Make cuts at specific positions within DNA
  - B. Ligases : Join the two DNA molecules
  - C. Polymerases : Break the DNA into fragments
  - D. Nucelases : Separate the two strands of DNA
29. Which of the following is knows as 'Lungs of the planet'?
- A. Amazon Rain Forest
  - B. Western Ghats
  - C. Eastern Himalayas
  - D. Pacific Ocean
30. Insects belong to which of the following phyla :
- A. Mollusca
  - B. Arthropoda
  - C. Echinoderm
  - D. Cnidaria
31. Secondary productivity is rate of formation of new organic matter by \_\_\_\_\_.
- A. Consumers
  - B. Decomposers
  - C. Saprophytes
  - D. Producers
32. Name the type of interaction in which one species benefits and the other is neither harmed nor benefited.
- A. Mutualism
  - B. Ammensalism
  - C. Commensalism
  - D. Predation
33. \_\_\_\_\_ were the first to demonstrate experimentally that DNA replicates semi conservatively.
- A. Oswald Avery, Colin MacLeod and Maclyn McCarty
  - B. Alfred Hershey and Martha Chase
  - C. Watson and Crick
  - D. Matthew Meselson and Franklin Stahl

34. The two subunits of 80 S ribosomes are
  - A. 60 S and 40 S
  - B. 50 S and 30 S
  - C. 70 S and 30 S
  - D. 60 S and 20 S
35. Mannitol is the stored food in
  - A. Red Algae
  - B. Brown Algae
  - C. Green Algae
  - D. Blue Green Algae
36. Gemmae are present in
  - A. Algae
  - B. Fungi
  - C. Liverworts
  - D. Gymnosperms
37. Which is known as the stress hormone?
  - A. 2, 4 - D
  - B. GA 3
  - C. ABA
  - D. NAA
38. Which one of the following is a gymnosperm?
  - A. Salvinia
  - B. Cycas
  - C. Selaginella
  - D. Equisetum
39. When carbohydrates are used as substrate and are completely oxidised, the RQ will be
  - A. 1
  - B. 0.9
  - C. less than 1
  - D. more than 1
40. The type of vascular bundles in which the xylem and phloem are jointly situated along the same radius of vascular bundles is known as
  - A. open
  - B. closed
  - C. radial
  - D. conjoint



## RESPONSE SHEET

1	A	B	C	D	E	11	A	B	C	D	E	21	A	B	C	D	E	31	A	B	C	D	E
2	A	B	C	D	E	12	A	B	C	D	E	22	A	B	C	D	E	32	A	B	C	D	E
3	A	B	C	D	E	13	A	B	C	D	E	23	A	B	C	D	E	33	A	B	C	D	E
4	A	B	C	D	E	14	A	B	C	D	E	24	A	B	C	D	E	34	A	B	C	D	E
5	A	B	C	D	E	15	A	B	C	D	E	25	A	B	C	D	E	35	A	B	C	D	E
6	A	B	C	D	E	16	A	B	C	D	E	26	A	B	C	D	E	36	A	B	C	D	E
7	A	B	C	D	E	17	A	B	C	D	E	27	A	B	C	D	E	37	A	B	C	D	E
8	A	B	C	D	E	18	A	B	C	D	E	28	A	B	C	D	E	38	A	B	C	D	E
9	A	B	C	D	E	19	A	B	C	D	E	29	A	B	C	D	E	39	A	B	C	D	E
10	A	B	C	D	E	20	A	B	C	D	E	30	A	B	C	D	E	40	A	B	C	D	E

## **ROUGH WORK**

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