

(6 pages)

Reg. No. : .....

Code No. : 30705 E    Sub. Code : EEZO 21/  
FEZO 21/EEZO 41

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2025.

Second Semester

Zoology

ALLIED ZOOLOGY-II

(For those who joined in July 2023 onwards)

Time : Three hours                      Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choosing the correct answer.

1. Which is the blue colour respiratory pigment?  
(a) haemocyanin            (b) chlorocruorin  
(c) haemoglobin            (d) pinnaglobin
2. Select one of the uricotelic animals.  
(a) amphibians            (b) sepia  
(c) reptiles            (d) Zebra

3. Choose the cavity which is present inside the gastrula.  
(a) blastocoel            (b) archenteron  
(c) yolk            (d) buccal cavity
4. Choose the following has discoidal placenta.  
(a) Rabbit            (b) pig  
(c) camel            (d) horse
5. Name the resistance developed by man during the life of Man.  
(a) Acquired immunity  
(b) natural immunity  
(c) native immunity  
(d) immunity
6. Name a portion of the antibody molecules which binds to the epitope.  
(a) receptors            (b) Para epitope  
(c) paratope            (d) MALT

7. How many chromosome are present in Man?  
(a) 46 (b) 47  
(c) 45 (d) 23
8. Blindness to red colour is called \_\_\_\_\_.  
(a) Deutronopia  
(b) protonopia  
(c) photonopia  
(d) None of the above
9. The nest building behavior is related with survival and \_\_\_\_\_.  
(a) respiration (b) circulation  
(c) reproduction (d) movement
10. Choose the another name of associated learning.  
(a) Complete learning  
(b) imprinting  
(c) habituation  
(d) Conditioned reflex

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Elaborate the respiratory pigments and its function.  
Or  
(b) Describe the structure of neuron.
12. (a) Explain briefly about meroblastic cleavage?  
Or  
(b) Write short note on blastula.
13. (a) Write the functions of Bone marrow.  
Or  
(b) Elaborate the Active vaccination.
14. (a) Comment on haemophilia.  
Or  
(b) Explain the sex determination in Man.
15. (a) Comment on learning behavior in animals.  
Or  
(b) Comment on courtship behavior in animals.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Explain the ornithine cycle.

Or

(b) Explain the structure and functions of eye.

17. (a) Classify the Placenta based on the foetal membranes.

Or

(b) Discuss the events occur during the gastrulation in frog.

18. (a) Elaborate the spleen as a secondary lymphoid organ.

Or

(b) Explain the following:

(i) BCG.

(ii) Active immunity.

19. (a) Discuss the need of genetic counselling.

Or

(b) Elaborate the polygenic inheritance in man with reference to skin colour.

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20. (a) Elaborate the trial and error learning.

Or

(b) Explain the following:

(i) foraging

(ii) imprinting.

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