

CCE(P) - 2015
ZOOLOGY

KTM-29-XV

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

Subject Code :

2 9

Test Booklet No. : 01228

TEST BOOKLET

ZOOLOGY

Time Allowed : 2 (Two) Hours

Full Marks : 200

INSTRUCTIONS

1. The name of the Subject, Roll Number as mentioned in the Admission Certificate, Test Booklet No. and Subject Code shall be written legibly and correctly in the space provided on the Answer Sheet with black ball pen.
2. Space provided for Series in the Answer Sheet is not applicable for Optional Subject. So the space shall be left blank.
3. All questions carry equal marks. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet.
4. No candidate shall be admitted to the Examination Hall/Room 20 minutes after commencement of distribution of the paper. The Supervisor of the Examination Hall/Room will be the time-keeper and his/her decision in this regard is final.
5. No candidate shall leave the Examination Hall/Room without prior permission of the Supervisor/Invigilator. No candidate shall be permitted to hand over his/her Answer Sheet and leave the Examination Hall/Room before expiry of the full time allotted for each paper.
6. No Mobile Phone, Pager, etc., are allowed to be carried inside the Examination Hall/Room by the candidates. Any Mobile Phone, Pager, etc., found in possession of the candidate inside the Examination Hall/Room, even if on off mode, shall be liable for confiscation.
7. No candidate shall have in his/her possession inside the Examination Hall/Room any book, notebook or loose paper, except his/her Admission Certificate and other connected paper permitted by the Commission.
8. Complete silence must be observed in the Examination Hall/Room. No candidate shall copy from the paper of any other candidate, or permit his/her own paper to be copied, or give, or attempt to give, or obtain, or attempt to obtain irregular assistance of any kind.
9. After you have completed filling in all your responses on the Answer Sheet and the Examination has concluded, you should hand over to the Invigilator *only the Answer Sheet*. You are permitted to take away with you the Test Booklet.
10. Violation of any of the above Rules will render the candidate liable to expulsion from the Examination Hall/Room and disqualification from the Examination, and according to the nature and gravity of his/her offence, he/she may be debarred from future Examinations and Interviews conducted by the Commission for appointment to Government Service.
11. Smoking inside the Examination Hall/Room is strictly prohibited.
12. This Test Booklet contains one page for Rough Work at the end.

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[No. of Questions : 100]

SEAL

CCE(P)-2015
ZOOLOGY

1. Schizont stage of *Plasmodium vivax* in man is found in

- (A) erythrocytes
- (B) erythrocytes and liver cells
- (C) liver cells only
- (D) erythrocytes, liver cells and spleen

5. Sexual dimorphism is distinct in *Ascaris*, because of

- (A) body colour
- (B) buccal margins
- (C) pineal setae
- (D) lips

2. Evolutionary sequence of canal system in sponges is

- (A) sycon-ascon-leucon
- (B) leucon-sycon-ascon
- (C) ascon-sycon-leucon
- (D) sycon-leucon-ascon

6. Common feature of earthworm and cockroach is

- (A) hermaphroditism
- (B) ventral nerve chord
- (C) moulting of cuticle
- (D) excretion by nephridia

3. Gonads of *Obelia* occur

- (A) in hydrula stage
- (B) in bases of tentacles of medusa
- (C) on blastocyst
- (D) in radial canal of medusa

7. In *Palaemon*, statocyst is situated on the

- (A) antennule
- (B) maxillae
- (C) maxillulae
- (D) antennae

4. A rhabditiform larva is found in the life cycle of

- (A) *Hydra*
- (B) *Ascaris*
- (C) tapeworm
- (D) liver fluke

8. Golgi body is found in

- (A) RBC of man
- (B) all the cells
- (C) bacterial cells
- (D) all cells, except RBC and bacterial cells

9. Presence of choanocytes is the characteristic of

- (A) Annelida
- (B) Porifera
- (C) Coelenterata
- (D) None of the above

10. The coral species which is extensively used in jewellery is

- (A) *Corallium rubrum*
- (B) *Anthocodium indicum*
- (C) *Gorgonia flagellum*
- (D) *Fungia* sp.

11. Spicules in sponges are secreted by

- (A) collenocytes
- (B) archaeocytes
- (C) scleroblasts
- (D) pinococytes

12. Cysticercus larva is found in

- (A) *Scypha*
- (B) *Obelia*
- (C) *Taenia*
- (D) *Fasciola*

13. Ambulacral system is basically found in

- (A) sponges
- (B) coelenterates
- (C) aquatic arthropods
- (D) echinodermata

14. In sponges, nutrition, respiration and excretion depend upon

- (A) circulatory system
- (B) ambulacral system
- (C) haemocoelomic system
- (D) canal system

15. Larva of *Schistosoma* is

- (A) cercaria
- (B) planula
- (C) cysticercus
- (D) Muller's larva

16. Which one of the following annelids is commonly known as the sea mouse?

- (A) *Aphrodite*
- (B) *Aplysia*
- (C) *Polynoe*
- (D) *Chaetopterus*

17. The typhlosole of earthworm is related with

- (A) excretion
- (B) respiration
- (C) reproduction
- (D) absorption

18. Proboscis of butterfly is formed from

- (A) paraglossa
- (B) labrum
- (C) maxilla
- (D) mandible

19. The ophiopluteus larva of Echinodermata belongs to the class

- (A) Holothuroidea
- (B) Ophiuroidea
- (C) Echinoidea
- (D) Asteroidea

20. In pigeon, milk is secreted by both sexes through

- (A) liver
- (B) gizzard gland
- (C) crop gland
- (D) salivary gland

21. Which one of the following is a fish?

- (A) Sea cow
- (B) Sea cucumber
- (C) Sea horse
- (D) Sea urchin

22. *Petromyzon* is not a true fish because of

- (A) absence of median fins
- (B) presence of gills
- (C) absence of paired fins and true jaws
- (D) absence of operculum

23. Desmosomes are concerned with

- (A) cell adherence
- (B) cell division
- (C) cellular excretion
- (D) cytolysis

24. Spindle apparatus is made up of

- (A) endoplasmic reticulum
- (B) polysome
- (C) microtubule
- (D) spherosome

25. Which of the following types of gametes are produced from an animal with RrYY genotype?

(A) RY, Ry, rY, ry

(B) RY, rY

(C) RY, RY, Ry, rY

(D) rY, ry, Ry, ry

26. Frameshift mutation occurs, when

(A) base is added

(B) base is deleted

(C) base is added or deleted

(D) anticodons are not present

27. The successive nucleotides of DNA are covalently linked through

(A) peptide bond

(B) hydrogen bond

(C) glycosidic bond

(D) phosphodiester bond

28. Wheel organ is found in

(A) *Ascidia*

(B) *Balanoglossus*

(C) *Amphioxus*

(D) Annelids

29. In which one of the following fishes, male shows parental care?

(A) *Anabas*

(B) *Labeo*

(C) Sea horse

(D) *Synaptula*

30. Bidder's organ in frog is attached to

(A) liver

(B) kidney

(C) ovary

(D) lung

31. Ductus caroticus is present in the arterial system of

(A) toad

(B) snake

(C) calotes

(D) crocodile

32. An aperture called 'foramen of panizzae' is present in

(A) middle ear of reptile

(B) cranium of reptile

(C) heart of crocodile

(D) heart of rabbit

