

**Avinashilingam Institute for Home Science and Higher Education for Women  
Coimbatore-641 043**

**Bachelor's Degree Examination –November 2017**

**I Semester**

**Class : I UG  
Major: Zoology**

**Time: 3 hours  
Max. Marks: 100**

**15BZOC02 Invertebrata II**

**Part - A**

**Choose the correct answer**

**(10x1=10)**

1. Locomotory organ in Nereis is -----  
(a) Podia                      (b) setae                      (c) parapodia                      (d) cilia
2. The clitellum in earthworm is formed of  
(a) 14 to 17<sup>th</sup> segments                      (b) 18 to 22<sup>th</sup> segments  
(c) 5 to 10<sup>th</sup> segments                      (d) 25 to 30<sup>th</sup> segments
3. The origin of the nephridium is-----  
(a) germinal                      (b) ectodermal                      (c) mesodermal                      (d) endodermal
4. The number of segments in Hirudinaria is -----  
(a) 10                      (b) 33                      (c) 26                      (d) numerous
5. The unit of compound eye is -----  
(a) eye-let                      (b) ommatidium                      (c) retinulae                      (d) eyespot
6. Peripatus breaths by -----  
(a) trachea                      (b) gills                      (c) book lungs                      (d) branchiostegite
7. Freshwater apple snail is -----  
(a) unio                      (b) pila                      (c) doris                      (d) aeolis
8. Respiratory pigment in Mollusc is -----  
(a) haemoglobin                      (b) erythrocin  
(c) haemocyanin                      (d) erythrocyanin
9. Asterias belongs to -----  
(a) Asteroidea                      (b) Echinoidea  
(c) Ophiuroidea                      (d) Holothuridea
10. Larval stage in life history of starfish -----  
(a) bipinnaria                      (b) brachiolaria  
(c) planula                      (d) hydrula

**Part B**  
**Answer the Following**  
**Answer should not exceed 400 words or two pages**

**5X6=30**

11. a) Give the general characters of phylum Annelida.  
(or)  
b) Describe the external morphology of Nereis.
12. a) Differentiate micronephridium and meganephridium.  
(or)  
b) Write short note on tubicolous polychaetes.
13. a) Explain the cephalic appendages in prawn.  
(or)  
b) Write short note on Limulus.
14. a) Describe the mechanism of respiration in common apple snail.  
(or)  
b) Write about the female reproductive organs in pila.
15. a) Write short note on stone canal.  
(or)  
b) Write the external features of star fish.

**Part C**  
**Answer the Following**  
**Answer should not exceed 800 words or four pages**

**5X12=60**

16. a) Give an account of feeding mechanism and digestion in nereis.  
(or)  
b) Explain the reproductive system of earthworm.
17. a) Describe the reproductive organs of leech.  
(or)  
b) Write an essay on the parasitic adaptations in leeches.
18. a) Give distinctive features of phylum Arthropoda and its main subdivisions upto classes.  
(or)  
b) Describe the salient features of peripatus and mention its taxonomic importance.
19. a) Describe the morphology and histology of the shell of pila.  
(or)  
b) Give an account of blood vascular system of pila.
20. a) Describe the water-vascular system of starfish .  
(or)  
b) Give an account of reproduction and development of starfish.

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