



DAA-003-001533

B. Sc. (Sem. V) Examination

April / May – 2015

Zoology

(Functional Anatomy & Non-Chordates)

Faculty Code : 003

Subject Code : 001533

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions : (1) Illustrate your answer with neat and labelled diagrams.
(2) Figure to right side indicate full marks of questions.

- 1 Select the correct answer from given option. 20
- (1) Sepia belongs to _____ order.
- (A) Cephalopoda
(B) Decapoda
(C) Gastropoda
(D) None
- (2) Ancylostoma generally known as _____
- (A) Hook worm
(B) Pin worm
(C) Filicaria worm
(D) All
- (3) The excretory system of scorpion includes _____
- (A) Malpighian tubules
(B) Hepato pancreas
(C) Coxal gland
(D) All

- (4) Which coral is also known as Mushroom coral ?
- (A) Fungia
 - (B) Heliopora
 - (C) Giardia
 - (D) Grantia
- (5) Elephantosis is caused by _____
- (A) Hook worm
 - (B) Waucheria
 - (C) Bancrofti
 - (D) Leech
- (6) Peripatus is connecting link between _____ and _____
- (A) Annelida and Mollusca
 - (B) Annelida and Arthropoda
 - (C) Hemichordata and Mollusca
 - (D) None
- (7) Scorpion belongs to which class _____.
- (A) Arthropoda
 - (B) Crustacea
 - (C) Archnids
 - (D) None
- (8) Megalopa larva is larva of _____
- (A) Crustacea
 - (B) Mollusca
 - (C) Echinodermata
 - (D) Hemichordata

- (9) _____ is also known as tongue worm.
- (A) Liver fluke
 - (B) Pin worm
 - (C) Balanoglossus
 - (D) All
- (10) _____ is the most characteristic feature in echinoderms
- (A) Reproductive system
 - (B) Water vascular system
 - (C) Circulatory system
 - (D) All
- (11) One of them is larva of echinodermate
- (A) Bipinnaria
 - (B) Zoea
 - (C) Mysis
 - (D) Phyllosoma
- (12) Body of scorpion is divisible into two major regions
- (A) Prosoma and Opisthosoma
 - (B) Head and abdomen
 - (C) Prosoma and Mesosoma
 - (D) Head and cephalothorax
- (13) Torsion and detorsion are characteristic of _____
- (A) Protozoa
 - (B) Porifera
 - (C) Mollusca
 - (D) Annelida

- (14) Locomotory organ of starfish _____
- (A) Podia
 - (B) Pollian vesicles
 - (C) Pedicellaria
 - (D) None
- (15) Body organization in sponge is _____
- (A) Cellular grade
 - (B) Tissue grade
 - (C) Organ grade
 - (D) Protoplasmic grade
- (16) Pinnatula is generally known as _____
- (A) Sea fan
 - (B) Sea disc
 - (C) Sea pen
 - (D) Sea fish
- (17) Parasitic animal has well developed
- (A) Respiratory system
 - (B) Reproductive system
 - (C) Digestive system
 - (D) Nervous system
- (18) Dysentery caused by _____
- (A) *Entamoeba histolytica*
 - (B) *Trypanosoma gambiense*
 - (C) *Enterobius vermicularis*
 - (D) *Ancylostoma duodenale*

- (19) _____ is also known as "dead man finger".
- (A) Chalina
 - (B) Euspongia
 - (C) Tethya
 - (D) Oscarella
- (20) _____ perform the function of osmoregulation by removing excess of water content and excretory material from the body of protozoa.
- (A) Contractile Vacuoles
 - (B) Flame cell
 - (C) Spicules
 - (D) All

- 2 (a) Write any three out of six : 6
- (i) Booklung in scorpion.
 - (ii) Diseases caused by Leishmania
 - (iii) Zoonotic larva
 - (iv) Significance of metamerism
 - (v) Economic importance of poriferans
 - (vi) Classification of Cnidaria up to order
- (b) Write any three out of six :
- (i) Note on nutrition in protozoa.
 - (ii) Infection and diseases caused by Trypanosoma
 - (iii) Appendages of scorpion
 - (iv) Reproduction in paratenic
 - (v) Ancylostoma caused which type of disease and infection in man
 - (vi) Ophiopluteum larva

- (c) Write any two out of five : 10
- (i) Sepia Digestive System
 - (ii) Foot in mollusca
 - (iii) Scorpion nervous system
 - (iv) Affinities of Balanoglossus
 - (v) Draw only neat and labelled diagram of nervous system in sepia
- 3 (a) Write any three out of six : 6
- (i) Ink gland in sepia
 - (ii) Zoological importance of peripetus
 - (iii) Pectine of scorpion
 - (iv) What is metamerism ?
 - (v) Dissimilation of Tubifex with resome
 - (vi) What is polymorphism ?
- (b) Write any three out of six. 9
- (i) Bipinnaria larva
 - (ii) Infection and diseases caused by Trichinella spiralis
 - (iii) Locomotion in protozoa
 - (iv) Write a short note on coral
 - (v) Short note on skeleton system in pociferu
 - (vi) Write note on mysis larva

(c) Write any two out of five : 10

- (i) Scorpion male reproductive system
- (ii) Parasitic adaptation in fasciola hepatica
- (iii) Write a note on coral reef
- (iv) Water vascular system in echinodermaty
- (v) Metamorphosis in insects.
