

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2008-09)

SUBJECT CODE: ZL/AC/GZ13

B.Sc. DEGREE EXAMINATION NOVEMBER 2009
BRANCH V.A. PLANT BIOLOGY & PLANT BIOTECHNOLOGY
FIRST SEMESTER

COURSE : ALLIED CORE
PAPER : GENERAL ZOOLOGY-I
TIME : 2 ½ HOURS

MAX. MARKS: 100

SECTION A

ANSWER ALL QUESTIONS

(10X3=30)

1. Write the zoological name of the following organisms
a) Prawn b) Pigeon c) Starfish
2. Associate the following with the respective animal
a) Setae b) Petasma c) Madreporite
3. Relate the structure of the following with their respective function
a) Quill feather b) Contractile vacuole c) Nephridia
4. Associate the following larvae to their respective adult
a) Metanauplius b) Bipinnaria c) Rhabditiform
5. Mention the habitat of the following animals
a) Ascaris b) Paramecium c) Rabbit
6. Name the animal in which the following structure is present
a) Vocal sac b) Cilia c) Pecten
7. Fill in the blanks
a) The movement of food vacuole in the cytoplasm in Paramecium is called _____
b) The excretory organ of Prawn is _____
c) The invaginated region of the intestine of Earthworm is called _____
d) The abdominal appendages in Prawn are called _____
e) The third eye lid is called _____
f) In birds the ovary is present only on the _____ side
8. State whether True/False
a) The organ of defense in Paramecium is trichocyst
b) Ascaris is an ectoparasite
c) Prawn has 13 pairs of cephalic appendages
d) Tadpole larva is a stage in the life of frog
e) Diastema is present in Rabbit
f) Earthworm is used in vermicomposting

9. Choose the correct answer
- The dermal branchiae are present on the
I) oral side II) aboral side III) terminal part of the arm
 - The nuptial pad is present in
I) Frog II) Pigeon III) Rabbit
 - Conjugation is a method of reproduction in
I) Ascaris II) Paramecium III) Prawn.
 - Clitellum is a part of the body in
I) Earthworm II) Leech III) Starfish
 - Scaphognathite is present in
I) Antenna II) 2nd maxilla III) mandible
 - Metamerisam is seen in
I) Ascaris II) Earthworm III) Starfish
10. Match the following
- | | | |
|------------------------|---|----------------------|
| a) Whiskers | - | covering |
| b) Cytopharynx | - | asexual reproduction |
| c) Binary fission | - | digestion |
| d) Crop | - | osmoregulation |
| e) Contractile vacuole | - | Tactile |
| f) Pellicle | - | Pigeons milk |

SECTION – B

ANSWER ANY 5 QUESTIONS (ILLUSTRATE WHEREVER NECESSARY)

(5X6=30)

- Describe the nutrition in Paramecium.
- Explain the types of nephridia in Earthworm
- Write notes on the cephalic appendages in Prawn
- Describe the digestive system in Starfish.
- Write notes on salivary glands in rabbit.
- Write about feathers in Pigeon
- Explain pulmonary respiration in Frog

SECTION – C

ANSWER ANY 2 QUESTIONS (ILLUSTRATE WHEREVER NECESSARY)

(2X20=40)

- Write an essay on the life history of Ascaris
- Describe in detail the larval forms of Prawn
- Write an essay on the respiration in Pigeon
- Explain the structure and function of heart in Frog.
