

SARDAR PATEL UNIVERSITY
B.Sc. (III SEM.) EXAMINATION
2012
Monday, 31st December
2.30 pm to 5.30 pm
US03EZOO01 : Invertebrate, Physiology,
Biotechnology and Parasitology

Total Marks: 70

Note:(i) Attempt all questions.
(ii) Draw diagrams wherever necessary.

- Q.1 Multiple choice questions: (Choose the correct option) [10]
- (1) Sexually mature worm is called
 (a) Nereis (b) Heteronereis (3) both (4) None
 - (2) Excretory organs of Nereis are
 (a) Nephridia (b) Metanephridia
 (c) Dorsal ciliated organs (d) Coelomoduct
 - (3) For attachment Fasciola was
 (a) Four suckers and hooks (b) Two suckers
 (c) Two suckers and hooks (d) hooks only
 - (4) Blood vessels which bring oxygenated blood to hearts
 (a) Pulmonary artery (b) Main Aorta
 (c) Pulmonary vein (d) Coronary artery
 - (5) Correct sequence of Larval Stage during development of Fasciola is:
 (a) Miracidium, Redia, Sperocyst, Metacercaria.
 (b) Cercaria, Miracidium, Sperocyst and Metacercaria.
 (c) Miracidium, Sperocyst, Redia, Cercaria and Metacercaria.
 (d) Redia, Cercaria, Metacercaria and Serocyst.
 - (6) Antigens for blood group are present in
 (a) Serum (b) Erythrocyte (c) Plasma (d) WBC
 - (7) Hormones secreted by the testes
 (a) Estrogens (b) Androgens
 (c) Progesterones (d) Aldosterone
 - (8) Hormones are referred as
 (a) Enzymes (b) Chemical messengers
 (c) Antigens (d) None of these
 - (9) Usually used as a carbon source to provide energy
 (a) Hormones (b) Glucose
 (c) Vitamins (d) Amino acid
 - (10) Metrogyl used in the control of
 (a) Dysentery (b) Cholera
 (c) Sleeping sickness (d) Schistosomiasis

- Q.2 Answer in shrot. **(Any Ten)** [20]
- (1) Define epitoky.
 - (2) Classify fasciola hepatica.
 - (3) Write effects of infection of fasciola on primary host.
 - (4) Give a brief account circulatory media.
 - (5) Write general functions of Blood.
 - (6) Define the process "Blood transfusion".
 - (7) Describe the functions of Lymphatic system.
 - (8) Describe chemical nature of hormones.
 - (9) Write the names of hormones present in pancrease.
 - (10) Write the stmpots of Artherosclerosis.
 - (11) Write the names of two viral diseases.
 - (12) Describe importance of transgenic animal.
- Q.3 Describe excretory system of Nereis. [10]
- OR**
- Q.3 Describe digestive system of Liver-fluke. [10]
- Q.4 Describe ABO systems of blood group. [10]
- OR**
- Q.4 Describe structure of human heart. [10]
- Q.5 Describe histological features of thyroid gland and its hormonal secretions. [10]
- OR**
- Q.5 Describe histological features of Pancreas and its hormonal secretions. [10]
- Q.6 Write in brief:
- (a) Transgenic animal [05]
 - (b) Genital herpes [05]
- OR**
- Q.6 Write in brief:
- (a) Pin worm [05]
 - (b) Artherosclerosis [05]

