

BSC. PART - II EXAMINATION - 2015

ZOOLOGY SUB/GEN

Answer five questions in all, selecting
two from each Group in which Q. No. 1 is compulsory

1. Select the correct answer from the options given below :

- (a) Salamander belongs to order :
(i) Apoda (ii) Urodela (iii) Aneura (iv) None of the above
- (b) Amphioxus is a :
(i) Chordate (ii) Non-chordate (iii) Vertebrate (iv) Reptile
- (c) Retrogressive metamorphosis occurs in :
(i) Petromyzon (ii) Herdmania (iii) Amphioxus (iv) Salpa
- (d) Placoid scales are found in :
(i) Labeo (ii) Catla (iii) Scoliodon (iv) Snakes
- (e) Venom of snakes is :
(i) Proteinous (ii) Lipid (iii) Carbohydrate (iv) By-product of lipid
- (f) Kangaroo is restricted in :
(i) Oriental region (ii) Australian region (iii) Ethiopian region (iv) Oriental region
- (g) Which type of egg is found in Amphioxus ?
(i) Alecithal (ii) Microlecithal (iii) Polylecithal (iv) None of the above
- (h) Thyroxine hormone is secreted by:
(i) Pituitary gland (ii) Adrenal gland (iii) Islets of Langerhans (iv) Thyroid gland
- (i) Human beings excrete :
(i) Ammonia (ii) Urea (iii) Uric acid (iv) None of the above
- (j) Social behaviour is best exhibited in :
(i) Honey bees (ii) Silk worms (iii) Spiders (iv) Scorpion
- (k) Ampullae of Lorezini is :
(i) Thermoreceptor (ii) Rheoreceptor (iii) Chemoreceptor (iv) Galvanoreceptor
- (l) Insulin as :
(i) Hypoglycemic (ii) Hyperglycemic (iii) Androgenic (iv) Steroidogenic
- (m) Folds in the wall of ventricle is called :
(i) Columnae carnae (ii) Chordae tendineae
(iii) Bicuspid valve (iv) Tricuspid valve
- (n) Heart of Scoliodon is called venous or branchial heart because :
(i) It receives only oxygenated blood (ii) It receives only deoxygenated blood
(iii) It receives mixed blood (iv) It receives no blood
- (o) Nucleated RBC is found in :
(i) Man (ii) Dog (iii) Camel (iv) Monkey

GROUP - A

- 2. Classify living class Reptilia up to orders giving characters and suitable examples
- 3. Describe the respiratory system of Scoliodon.
- 4. What is Neoteny? Enumerate neoteny with reference to Salamander.
- 5. Describe the distribution and morpho-anatomical features of Prototheria.

GROUP - B

- 6. Describe the different types of placenta. Add a note on their functions.
- 7. Describe the physiology of blood coagulation.
- 8. Describe the physiology of Thyroid gland.

- 9. What are the characteristics of social insects? Illustrate your answer in the context of honey bees.