

BSC. PART - II EXAMINATION - 2013

ZOOLOGY SUB/GEN

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

1. Choose the correct answer from the options given :
 - (a) In Herdmania life cycle, Notochord is present in :
 - (i) Adult stage (ii) Larval stage (iii) Both (i) and (ii) (iv) In sedentary stage
 - (b) Flight muscles of birds are attached to :
 - (i) Clavicle (ii) Scapula (iii) Coracoid (iv) Keel of sternum
 - (c) The characteristic blastula of chick is called :
 - (i) Stereoblastula (ii) Coeloblastula (iii) Amphiblastula (iv) Discoblastula
 - (d) Web spinning behaviour of spider is a:
 - (i) Kinesis (ii) Reflex (iii) Instinct (iv) Tropism
 - (e) The main function of Henle's loop is : (i) Absorption of glucose
(ii) Passage of urine (iii) Conservation of water (iv) Filtration of blood
 - (f) Gavialis is the exclusive fauna of : (i) Ethiopian region
(ii) Palaearctic region (iii) Australian region (iv) Oriental region
 - (g) Ductus caroticus is a connection between: (i) I and II aortic arches
(ii) II and III aortic arches (iii) III and IV aortic arches (iv) IV and V aortic arches
 - (h) Which gland stores hormone before its secretion and then releases it?
 - (i) Pituitary (ii) Thyroid (iii) Adrenal cortex (iv) Islet of Langerhans
 - (i) Acromegaly is due to the hypersecretion of :
 - (i) STH (ii) TSH (iii) PRL (iv) PTH
 - (j) The total percentage of oxygen transported by the haemoglobin is:
 - (i) 3% (ii) 49% (iii) 97% (iv) 100%
 - (k) The number of meninges in rabbit is:
 - (i) 1 (ii) 2 (iii) 3 (iv) None of the above
 - (l) Following a large object by a chick just after hatching is called:
 - (i) Innate behaviour (ii) Insight learning
(iii) Classical conditioning (iv) Imprinting
 - (m) Which type of placenta is found in primates ?
 - (i) Diffused (ii) Discoidal (iii) Zonary (iv) Cotyledonary
 - (n) Greenland is included in: (i) Australian region
(ii) Neotropical region (iii) Palaearctic region (iv) Nearctic region
 - (o) Ovoviviparity in amphibia is represented by:
 - (i) Hyla (ii) Pipa (iii) Alytes (iv) Rhacophorus

GROUP-A

2. Classify Reptilia upto orders giving suitable characters and examples.
3. Give a comparative account of aortic arches in vertebrates.
4. Enumerate the important mammalian characters. Describe the distribution of different group of Prototheria.
5. Describe the biting and feeding mechanism in snakes.

GROUP-B

6. What do you mean by placenta? Describe their types, development and functions
7. Describe the physiology of excretion in mammals.
8. Describe the structure and function of thyroid gland in mammals. Add a note on its pathology.
9. Give an account of boundaries, climatic conditions and mammalian fauna of Oriental region.