

BSC. PART - II EXAMINATION - 2013

ZOOLOGY HONOURS PAPER IV

1. Choose the correct answer out of the options given below:
 - (a) Which of the following structure is present in all adult vertebrates?
 - (i) Notochord
 - (ii) Pharyngeal gill slits
 - (iii) Renal portal system
 - (iv) Dorsal tubular nerve cord
 - (b) The origin of placoid scale is:
 - (i) Ectodermal
 - (ii) Endodermal
 - (iii) Mesodermal
 - (iv) Both (i) and (ii)
 - (c) Preen gland occurs in:
 - (i) Reptiles
 - (ii) Aves
 - (iii) Mammals
 - (iv) Pigeons
 - (d) The most active and living layer of cells in skin:
 - (i) Stratum corneum
 - (ii) Stratum malpighii
 - (iii) Stratum lucidum
 - (iv) Stratum granulosum
 - (e) A gizzard like modification of stomach is present in:
 - (i) Snakes
 - (ii) Vultures
 - (iii) Rohu
 - (iv) Crocodiles
 - (f) In which of the following group of vertebrates double respiration is found?
 - (i) Dipnoi
 - (ii) Amphibia
 - (iii) Reptilia
 - (iv) Aves
 - (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 VI aortic arches
 - (h) The kidney in the tadpole of frog is:
 - (i) Holonephric
 - (ii) Opisthonephric
 - (iii) Mesonephric
 - (iv) Metanephric
 - (i) The characteristic blastula of birds is called:
 - (i) Coeloblastula
 - (ii) Stereoblastula
 - (iii) Discoblastula
 - (iv) Amphiblastula
 - (j) Parthenogenesis in domestic honey bee is:
 - (i) Arrhenotoky
 - (ii) Thelytoky
 - (iii) Amphitoky
 - (iv) None of these
 - (k) Gastrulation in *Amphioxus* involves:
 - (i) Epiboly
 - (ii) Invagination
 - (iii) Involution
 - (iv) All of these
 - (l) How many pairs of somites are present in chick embryo at 48 hours?
 - (i) 4-5 pairs
 - (ii) 12-13 pairs
 - (iii) 24-25 pairs
 - (iv) 35-36 pairs
 - (m) Non-deciduate and epithelio-chorial placentas is found in:
 - (i) Pig
 - (ii) Dog
 - (iii) Rat
 - (iv) Rabbit
 - (n) Retina and lens of eyes in vertebrates are derived from:
 - (i) Ectoderm
 - (ii) Mesoderm
 - (iii) Endoderm
 - (iv) All of the above
 - (o) Balloon like projection of allantois consists of:
 - (i) Outer ectoderm and inner mesoderm
 - (ii) Outer mesoderm and inner ectoderm
 - (iii) Outer mesoderm and inner endoderm
 - (iv) Outer endoderm and inner mesoderm
2. Write short notes on any three of the following:
 - (a) Feathers of birds
 - (b) Dentition in mammals
 - (c) Cleidoic eggs
 - (d) Corpus callosum
 - (e) Haemo-chorial placenta
 - (f) Oestrous cycle
3. Describe the identifying features of class Amphibia and classify upto orders giving distinguishing characters and at least two examples of each.
4. Describe the process of organogenesis of eye in chick embryo.
5. Give a comparative account of integuments in amphibians, reptilians and mammals.

6. Describe the process of organogenesis of brain in chick embryo with help of suitable illustrations.
7. Describe the development of amphioxus upto formation of coelom.
8. Give a comparative account of hearts in amniotes with suitable diagrams. Add a note on its evolutionary trends.
9. Describe the development of chick upto the formation of three germinal layers.

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