2015-17 (1st Sem)

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer five questions in which Q. Nos. 1 _and 2 are compulsory.

Select the correct answer of the following:

 $2 \times 10 = 20$

- The venom of viper effects on:
 - (a) Circulatory system
 - Nervous system
 - Respiratory system
 - Excretory system

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The function of contractile vacuole is increased when:

- (a) It is needed to remove waste products
- The concentration of water outside is higher than the animal body
- It has stopped feeding
- (d) The cell membrane is permeable to water
- (iii) The largest cranial nerve is:
 - (a) Facial
 - (b) Optic
 - Mandibular
 - (d) Vagus
 - (iv) Respiratory appendage of pupa is called:
 - (a) Gills
 - Trumpets
 - Siphon
 - Trachea

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- Mammalian brain differ from an amphibian brain having:
 - (a) Cerebellum
 - Corpus callosum
 - Olfactory lobes
 - (d) Hypothalamus
- (vi) Eukaryotic flagella is made up of :
 - (a) Vimetin
 - (b) Flagellin
 - Dyenien
 - Tubulin

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- (vii) Finches of Galapagos Islands means:
 - (a) Amphibians
 - (b) Reptiles
 - (c)_Birds
 - (d) Fishes
- (viii) The immobile cytoplasmic ciliary extensions from the cell is called:
 - (a) Sterocilia
 - (b) Kinocilia

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(Turn over)

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Mitocilia

- (d) None of the above
- (ix) How many temporal vacuities are found in the skull of the representatives of subclass Lepidosauria?
 - (a) Two
 - Three
 - (c) Four
 - (d) None of the above
- True coelom is the space between the alimentary canal and body wall enclosed by layers of: http://www.brabuonline.com
 - (a) Mesoderm on both sides
 - Ectoderm on both sides
 - Endoderm on one side and ectoderm on the other
 - Mesodem on one side and ectoderm on the other
- Write short notes on any four of the following:

 $5 \times 4 = 20$

(a) Chemical composition of snake venom

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(4)

Contd.

- (b) Loelomic divisions of metazoa
- (c) Osmoregulators
- (d) Peripheral nervous system
- (e) Ciliary or Flagellar movement
- Classify living amphibian upto orders with distinctive characters and examples (including Indian species) with discussion on the classification. http://www.brabuonline.com
- Name the cranial nerves, their place of origin and branches with distribution in mammals.
- What is osmoregulation? Describe, in detail, the physiological adaptations involved in osmoregulation in protozoa. Why is osmoregulation important?
- Give an account of different types of respiratory organs found in invertebrates and mechnism of respiration in mollusca
- Give an account of patterns of feeding and digestion in lower metazoans.

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