

## Section-A (MCQ's)

Q.1 Choose the correct answer for each for the given options:

- (i) Osmo conformers animals live in \_\_\_\_\_ environment.  
 (a) Hypertonic (b) Isotonic (c) Hypotonic (d) All of these
- (ii) pH of urine is \_\_\_\_\_.  
 (a) 04 (b) 05 (c) 06 (d) 08
- (iii) Twisting of elbow occurs due to the movement of \_\_\_\_\_ joint.  
 (a) Gliding (b) Pivot (c) Sliding (d) Hinge
- (iv) Part of human brain involved in the long term memory.  
 (a) Hypothalamus (b) Hippo-campus (c) Medulla oblongata (d) Amygdala
- (v) Syphilis is caused by:  
 (a) *Neisseria gonorrhoeae* (b) *Treponema pallidum*  
 (c) Cutaneous leishmaniasis (d) *Tinea saginata*
- (vi) Huntington's disease is due to an autosomal dominant allele on chromosomes No. \_\_\_\_\_.  
 (a) 2 (b) 4 (c) 6 (d) 8
- (vii) Prolong bleeding is due to deficiency of vitamin \_\_\_\_\_.  
 (a) B (b) A (c) K (d) C
- (viii) \_\_\_\_\_ type of neuron is unmyelinated.  
 (a) Sensory Neuron (b) Motor Neuron (c) Inter-Neuron (d) None of these

## Section-B (Short Answer)

Note: Answer any TEN of the following questions.

- Q.2 Distinguish between any one of the following.  
 (a) Ectotherms and Endo-therms (b) Oviparous and Viviparous
- Q.3 Why fresh water fishes pass large quantity of dilute urine?
- Q.4 Why muscle undergoes oxygen debt during heavy exercise?
- Q.5 Enlist the different types of receptors and their role.
- Q.6 Why Insight learning is called most developed form of learning behaviour?
- Q.7 What are the necessities of sexual reproduction?
- Q.8 What is Morula? Why is it named so?
- Q.9 What is the role of vector in genetic engineering?
- Q.10 Why CFC are considered as harmful for the environment?
- Q.11 Define any TWO of the following:  
 (i) Acromegaly (ii) SCID (iii) Imprinting (iv) Deme
- Q.12 Enlist the objections on Darwin theory of Natural selection.
- Q.13 Define Acid Rain, Why is it harmful for the environment?
- Q.14 Give similarities in between Nervous and chemical Co-ordination.

## Section-C (Descriptive Answer)

Note: Answer any ONE of the following questions.

- Q.15(a): Discuss the role of cytoplasm in development.
- (b) How theory of special creation differs from the theory of organic evolution? Describe Lamarck theory of organic evolution and also mention objections of this theory.
- Q.16(a): Explain Excretory System of Cockroach with Suitable diagram.
- (b) Define Skeleton. Describe the functions of Skeleton. Explain the deformities of human Skeleton.