

Seat Number

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April 2015



खडक - 040

ZOOLOGY PAPER - II (NEW) : ZOO - 242
Mammalian Physiology (24156)

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figure to the right indicates full marks:

1. Multiple choice, attempt any eight.

8

- i) Cold blooded animals are also called.....
a) Poikilothermic b) Homeothermic
c) Isothermic d) None of above.
- ii) Prolactin hormone is concern with.....
a) Milk ejection b) Spermatogenesis.
c) Growth d) None
- iii) All the hepatic cells continually produce a.....
a) Juice b) Bile
c) Fluid d) Hormones.
- iv) Oestrous cycle is operated in.....
a) Primates b) Non-primates
c) Non- chordates d) None
- v) The total capacity of the lungs in man is..... Liter.
a) 2.5 b) 3.5
c) 4.5 d) 6.0
- vi) In contraction period, muscle is.....
a) Normal level b) Shorten
c) Remain constant d) None.
- vii) The junction between two neurons may be called as.....
a) Generator area b) Receptor area
c) Junction d) Synapse

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viii) In human, cardiac cycle is completed within.....

- | | |
|------------|------------|
| a) 0.5 sec | b) 0.6 sec |
| c) 0.7 sec | d) 0.8 sec |

ix) Excretion removes..... waste from the body.

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|------------------|----------------|
| a) Carbohydrates | b) Nitrogenous |
| c) Fat | d) None. |

x) The beta cells of the islets secrete.....

- | | |
|-----------------|-------------|
| a) Insulin | b) Glucagon |
| c) Somatostatin | d) None. |

2. Define / Explain/ Comment on **any four**. 8

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|--------------------|----------------------|
| a) Kidney Failure. | b) Thermoregulation. |
| c) Heart attacks. | d) Menarche. |
| e) Constipation. | f) Anoxia. |

3. Attempt **any two** of the following. 8

- i) Describe respiratory quotient.
- ii) Diagrammatic representation of double circulation.
- iii) Describe selective reabsorption.

4. a) Attempt **any two** of the following. 6

- i) Sketch and label synapse.
- ii) Muscle fatigue.
- iii) Explain, myogenic heart.

b) Define, Respiration. 2

5. a) Attempt **any one** of the following. 6

- i) Explain digestion by pancreatic enzymes.
- ii) Describe male sex hormones and their physiological role.

b) Colitis. 2
