

M.Sc. (Zoology) Semester - 3 (CBCS) Examination
DEC/JAN. - 2020 - [NEW COURSE]
Mammalian Physiology (Core (New))

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figure to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q.1 Answer any seven out of ten. (14)
1. Draw nephron and label its parts.
 2. What is BMR?
 3. Write about hemoglobin in very short.
 4. Explain excretion in any desert animal.
 5. Justify the sentence "heart as a pump".
 6. Name the gland which is endocrine as well as exocrine in function and explain in very short.
 7. What will happen to human body if blood platelets go down below 3000?
 8. How stress and adaptations are correlated?
 9. Explain any Computer Oriented statistical technique.
 10. Why the body temperature at scrotum is less than other parts of body?
- Q.2 Answer the following. (Any Two out of Three) (14)
1. Explain Comparative physiology of excretion and waste elimination.
 2. Write in detail about regulation of water balance.
 3. Describe Physiology of digestion and absorption.
- Q.3 Answer the following. (Any Two out of Three) (14)
1. Make a detailed note on comparative anatomy of heart structure.
 2. Describe blood groups and blood volume regulation in detail.
 3. Explain ECG in detail.
- Q.4 Answer the following. (Any Two out of Three) (14)
1. Describe reproductive processes.
 2. Describe any two Endocrine glands situated above the diaphragm, its basic mechanism of hormone action and its functions.
 3. Describe testis and ovaries as endocrine glands.
- Q.5 Answer the following. (Any Two out of Three) (14)
1. Explain physiology of vision with diagram.
 2. Describe Thermoregulation in detail.
 3. Explain physiology of hearing.
