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(20517)

Roll No.

B.Sc. (Micro.)-II Year

3502

B.Sc. (Micro.) Examination, May- 2017

BIOLOGY-III

(B-209)

Time : Three Hours]

Maximum Marks :50

Note : Attempt any five questions. Each question carries equal marks.

1. What do you mean by holozoic nutrition?

Describe the process of digestion of food in mammals.

10

2. Describe the process of gaseous exchange in amphibians.

10

3. Explain the mechanism of water absorption

P.T.O.

in plants. Leave a note on factors affecting
absorption of water. 10

4. Describe Krebs' cycle in detail. 10

5. What is open circulatory system? Describe
the main arteries and veins in a mammal.

10

6. Describe the structure and functions of hu-
man kidney. 10

7. What is difference between excretion and
defaecation? Describe the process of urine
formation. 10

8. Write short note on the following : $5 \times 2 = 10$

(i) Structure of stomata

(ii) Guttation

9. Briefly describe the following : $5 \times 2 = 10$

(a) Passive transport

(b) Girdling or ringing

10. Write short notes on the following: $5 \times 2 = 10$

(a) Stomach of ruminants

(b) Gaseous exchange in insects

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Note : Answer any *Five* questions. All questions carry equal marks.

1. Describe the structure of liver in mammals. Briefly explain its role in digestion. 10
2. Explain the process of exchange of gases in a mammal. What is the role of haemoglobin in gaseous exchange? 10

(2)

3. What do you understand by closed circulatory system ?
Describe the structure and working of mammalian heart. 10

4. Describe the detailed structure of human kidney.
How concentration of urine occurs in nephron ? 10

5. Write short notes on the following : $5 \times 2 = 10$
(i) Malnutrition in India
(ii) Air sacs.

6. Explain the process of absorption of water and ion uptake in plants. 10

7. Write short notes on the following : $5 \times 2 = 10$
(a) Portal system in mammals
(b) Guttation.

8. Write short notes on the following : $5 \times 2 = 10$
(a) Juxtaglomerular apparatus
(b) Digestion of cellulose in ruminants.

(3)

9. Write short notes on the following : $5 \times 2 = 10$
(a) Buccopharyngeal exchange of gases in amphibians
(b) Symplast.

10. Write short notes on the following : $5 \times 2 = 10$
(a) Insectivorous plants
(b) Krebs, cycle.