

(20518)

Roll No. ....

B. Sc. (Micro.)-II Year

3502

B. Sc. (Micro.) Examination, May 2018

BIOLOGY-III

(B-209)

Time : Three Hours]

[Maximum Marks : 50

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

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 : 5×2=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 : 5×2=10  
(a) Portal system in mammals  
(b) Guttation.

8.

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

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.

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