

This question paper contains 2 printed pages.]

Your Roll No.

521

Subsidiary for B.Sc. Honours / II A

ZOOLOGY – Paper IV

(Physiology w.r.t. Human)

(Admissions of 2004 onwards)

Time : 3 Hours

Maximum Marks : 50

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt five questions in all, including
Question No. 1 which is compulsory.

Marks are indicated against each question.

1. (a) Distinguish between the following :
 - (i) Obligatory & facultative water reabsorption.
 - (ii) Fatigue & tetany
 - (iii) Blood & lymph
 - (iv) Homeostasis & haemostasis 8
- (b) Define the following :
 - (i) BMR
 - (ii) Trophic hormone
 - (iii) Implantation
 - (iv) Rouleaux formation 4

- (c) Substitute one term for each of the following :
- (i) Condition in which there is persistent abnormal cardiac rhythm ...
 - (ii) A significant decrease in the number of blood platelets... 2
2. Provide a detailed account of gaseous transport in blood. 9
 3. Provide a detailed account of the processes of ovulation and implantation and hormonal control. 9
 4. Provide a complete account of the process of origin & transmission of nerve impulse along myelinated & non-myelinated nerve fibres. 9
 5. Provide an account of the process of digestion and absorption of fats. 9
 6. (a) Describe in detail the process of urine formation in kidney. 7
 - (b) List some abnormal constituents of urine. 2
 7. Write short notes on any **three** of the following :
 - (a) Assisted reproductive technology
 - (b) Parathyroid
 - (c) Chloride shift
 - (d) Neuromuscular junction 3, 3, 3
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