

TEST NO. 9
CHAPTER NO. 14

Biology (New Scheme)	Inter Part I	Group- I / II
Time : 20 Min.	Objective Type	Marks:17

Note:- You have four choices for each objective type question as A,B,C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero in that question.

- 1.1 Casparian strips are present in the cells of root.
(A) Endodermis (B) Epidermis (C) Cortex (D) Pith
2. Guttation occur in plants through.
(A) Cuticle (B) Hydathodes (C) Lenticle (D) Stomata
3. Single circuit heart of found is.
(A) Fishes (B) Reptile (C) Birds (D) Mammals
4. Water potential of pure water is.
(A) +10 (B) +5 (C) zero (D) -10
5. 90% of total transpiration is.
(A) cuticular (B) Stomatal (C) Lenticular (D) Epidermal
6. The ions involved in the opening and closing of stomata is.
(A) Sodium (B) Calcium (C) Potassium (D) Magnesium
7. Double circuit Heart is not found in.
(A) Birds (B) Mammals (C) Reptiles (D) Fish
8. The concentration of plasma in the blood is.
(A) 45% (B) 50% (C) 55% (D) 60%
9. The normal pH of blood is.
(A) 7.4 (B) 6.0 (C) 8.0 (D)
- 9.0
10. The substance that inhibits blood clotting is.
(A) Histamine (B) Sterol (C) Antibody (D) Heparin
11. Coronary arteries supply blood to the.
(A) Head (B) Shoulders (C) Heart (D) Kidneys
12. One complete heart beat lasts for.
(A) 1.0 sec (B) 0.8 sec (C) 0.5 sec (D) 2.0 sec
13. Discharge of blood from blood vessels in called as.
(A) Stroke (B) heart attack (C) Thrombosis (D)
- Haemorrhage
14. The exchange of food material takes place through.
(A) Capillary (B) Vein (C) Artery (D) Heart
15. The plasma proteins constitute _____ % by weight.
(A) 9 - 11 % (B) 11 - 12% (C) 13-15% (D) 7 - 9 %
16. The renal vein brings the impure blood from.
(A) Brain (B) Kidney (C) Lungs (D) Liver
17. A serum containing antibodies is called.
(A) Antigen (B) Antibiotic (C) Lymph (D) Antiserum

TEST NO. 9
CHAPTER NO. 14

Biology (New Scheme)	Inter Part I	Group- I / II
Time : 2:40 hours.	Subjective Type	Marks:68

SECTION - I

2. Write short answers to any EIGHT (8) questions. (8x2=16)

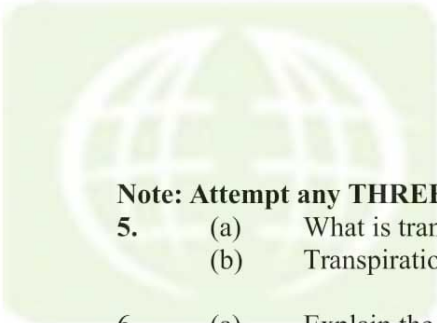
- i. What is water potential? Give equation of water potential.
- ii. What is plasmolysis? How it occurs?
- iii. What is pressure potential?
- iv. What is ambition? Write its significance for the germination of seeds.
- v. Define stomatal transpiration.
- vi. Compare open and closed circulatory system.
- vii. What are organic nutrients present in the human blood?
- viii. What is blue baby?
- ix. What is pacemaker? Give its function.
- x. What do you know about thalassemia?
- xi. Give the location of bicuspid and tricuspid valve in the human heart.
- xii. What is meant by hyper tension or high blood pressure?

3. Write Short answers to any EIGHT (8) questions. (8 x 2 =16)

- i. How we can avoid heart attack?
- ii. Differentiate between myocardial infraction and hemorrhage.
- iii. Define passive immunity.
- iv. Differentiate between active and passive immunity.
- v. Compare cell mediated response with humoral immune response.
- vi. What is bursa of fibricus?
- vii. Define passive immunity.
- viii. What is facilitated diffusion?
- ix. Compare diffusion with osmosis.
- x. Define active transport and facilitated diffusion.
- xi. Differentiate between apoplast and symplast pathway.
- xii. Write a note on bleeding.

4. Write Short answers to any SIX (6) questions. (6 x 2 = 12)

- i. What is difference between guttation and bleeding?
- ii. How stomata open? Give one method/
- iii. Define pressure flow theory.
- iv. What is honey dew? Give its composition.
- v. Define source and sink.
- vi. What is single circuit heart?
- vii. Compare single circuit heart with double circuit heart.
- viii. What are blood platelets? Give their function.
- ix. Differentiate between artery and vein?



SECTION – II

Note: Attempt any THREE (3) questions:

(3 x 8 = 24)

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|----|-----|---|---|
| 5. | (a) | What is transpiration? Describe its various types. | 4 |
| | (b) | Transpiration is a necessary evil. Comment on this statement. | 4 |
| 6. | (a) | Explain the factors affecting rate of transpiration. | 4 |
| | (b) | Write a note on major types of immunity. | 4 |
| 7. | (a) | Explain the different hypothesis to explain the opening and closing of stomata. | 4 |
| | (b) | How transportation takes place in hydra? | 4 |
| 8. | (a) | Discuss structure and function of human heart. | 4 |
| | (b) | Describe lymphatic system. Also write down its various functions. | 4 |
| 9. | (a) | Describe blood pressure and rate of blood flow. | 4 |
| | (b) | Write a note on cardiac cycle. | |

4



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