

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot
Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER 2018

B.Sc. Biotechnology

16UBTCC20 – PHYSIOLOGY (SELF STUDY)

Duration of Exam – 2 hrs

Semester – V

Max. Marks – 35

Part A (6X1= 6 marks)

Answer **ALL** questions

1. Which part of ear transmit acoustic vibrations from tympanic membrane to oval window?
2. Which neurotransmitter released during rod cell depolarization?
3. Write the function of renin?
4. Which component of muscle is called molecular spring?
5. Write name of macroelement require for chlorophyll Biosynthesis?
6. Write importance of photorespiration?

Part B (3X5= 15 marks)

Answer **ALL** questions

- 7a. With well labeled diagram draw the structure with major function of different component of human eye?

OR

- 7b. Explain the regulation of blood pressure by RAAS complex?

- 8a. Explain structure of neuromuscular junction? Write the role of acetylcholine?

OR

- 8b. What is light harvesting complex (LHC). Discuss the photosystem in detail?

- 9a. Enlist name of five major elements and its role in plant system?

OR

- 9b. Give the detail account of vernalization in plant?

Part C (2X7= 14 marks)

Answer **ALL** questions

- 10a. What is double circuit circulation? Give the detail note on structure and function of heart with a labeled diagram?

OR

- 10b. Write composition of urine? Describe mechanism of urine formation in human?

- 11a. Write the mechanism of opening and closing of stomata detail with diagram?

OR

- 11b. Write advantage of C4 Cycle in compare to C3 cycle? Write various steps of C4 or dark reaction during photosynthesis?