

Pramukh Swami Science & H.D. Patel Arts College, Kadi

Bachelor of Vocation Pharmaceutical Chemistry Semester- III

Mid Semester Examination, November- 2016,

(PC 313) Cell Biology

Time: 2 hours

10/11/2016

Total Marks: 60

Que-1. Answer any 12 questions. Each question carries 1 mark [12]

1. Give functions of Cell Wall
2. Differentiate active and passive transport
3. Enlist the types of RNA.
4. Which of these is part of the cell membrane?
a. triglycerides b. phospholipids
c. ATP d. more than one of these
5. Which of the following is necessary in order for osmosis to occur?
a. a permeable membrane
b. a semi-permeable membrane
c. an isotonic solution
d. ATP
- 6 The process of a cell engulfing a solid object is:
a. phagocytosis b. exocytosis
c. pinocytosis d. diffusion
7. Which one of the following is not found in prokaryotic cells?
A) ribosomes B) a membrane-bound nucleus
C) a cell wall D) a capsule
8. Which of the following organelle has not double membrane:
(A) Nucleus (B) Cell wall
(C) Mitochondria (D) Sphaerosomes
- 9 He advanced the cell theory with his conclusion that cells could only come from other cells:
a. Anton van Leeuwenhoek c. Rudolph Virchow
b. Theodor Schwann d. Robert Hooke
10. Give the function of DNA in cell
11. Who was the first person to see cells under the microscope and give them a name?

- a. Anton van Leeuwenhoek
- b. Robert Hooke
- c. Theodor Schwann
- d. Matthias Schleiden

12. What is role of Chloroplast in cell?

Que.2. Answer any five questions. Each question carries 4 marks [20]

1. Explain the function of cell membrane
2. Draw the labeled diagram of Eukaryotic cell
3. Differentiate Prokaryotic and Eukaryotic Cell
4. Write a note on cell theory
5. Write a note on Lysosome
6. Describe the cell diversity
7. Write about pinocytosis

Que.3. Answer any four questions. Each question carries 7 marks [28]

1. Explain Mitochondria in details
2. Describe the passive transport mechanism in cell
3. Write a note on Nucleus
4. Write a note on Cell wall
5. Write a note on mitochondria