

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

Bachelor of Vocation Pharmaceutical Chemistry Semester- III

Mid Semester Examination, October- 2017

PC 313 Cell Biology

Time: 2 hours /10/2017 Total Marks: 60

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

1. Which of these is part of the cell membrane?  
a. triglycerides b. phospholipids  
c. ATP d. more than one of these
2. Give functions of Cell Wall
3. 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
4. Give function of chloroplast
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. All cells  
a. are enclosed in a membrane that maintains internal conditions different from the surroundings.  
b. can interconvert chemical materials.  
c. have DNA as the genetic material.  
d. All of the choices are correct
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. The cell theory is one of the unifying themes of biology. Which of the following statements would be part of the cell theory?  
a. All life is made of cells.  
b. Cells are the smallest units of life.  
c. Cells come from preexisting cells.  
d. All of the above

11. The inner membrane of the mitochondria is usually, highly convoluted forming a series of infolding known as

- a) thylakoids b) lamellae c) cristae d) grana

12. Chlorophyll converts light energy into

- A. heat energy B. chemical energy  
C. potential energy D. electrical energy

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

1. Explain the function of cell membrane
2. Draw the labeled diagram of Eukaryotic cell
3. Differentiate Plant and Animal Cell
4. Write a note on cell theory
5. Write a note on Lysosome
6. Describe the cell diversity
7. Explain the structure of chloroplast
- 8.

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

1. Explain Mitochondria in details
2. Describe the Ribosomes.
3. Write a note on Nucleus
4. Write a note on Cell wall
5. Write a note on Endoplasmic reticulum.