Pramukh Swami Science and H D Patel Arts College

Bachelor of Vocation

Pharmaceutical Chemistry Semester III

Mid SEM Examination, November 2015

Subject: PC 313

Time: 2 hrs | Date: 04/11/2015 | Marks: 60

Q.1 Answer any 12 questions. Each question carries 1 mark **[12*1=12]**

1. 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

2. Most organelles in a eukaryotic cell are found in the

A) cell wall B) cytoplasm
C) nucleus D) capsule

3. A bacterial cell's DNA is found in its

A) capsule. B) nucleoid region
C) nucleus. D) ribosomes

4. 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

5. Which of the following organelle has not double membrane:

(A) Nucleus (B) Cell wall
(C) Mitochondria (D) Sphaerosomes

6. The process of a cell engulfing a solid object is:

a. phagocytosis b. exocytosis
c. pinocytosis d. diffusion

7. When a cell bursts due to osmosis, it is in a solution that is:

a. hypertonic b. isotonic
c. hypotonic d. either A or C

8. Who was the first person to see cells under the microscope and give them a name?

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

9. What is role of Chloroplast in cell?

10. Rods, spheres and spirals are shapes of cells observed in

A) plants B) animals
C) fungi D) bacteria

Q.2 Answer any 5 questions. Each question carries 04 marks **[5*4=20]**

1. Differentiate Prokaryotic and Eukaryotic Cell
2. Describe the cell diversity
3. Write a note on Chloroplast
4. Explain the function of Plasma Membrane
5. Differentiate the Endocytosis and Exocytosis
6. Draw the labeled diagram of Prokaryotic cell

Q.3 Answer any 4 questions. Each question carries 07 marks **[4*7=28]**

1. Write a note on Cell Theory
2. Explain The Cell Wall in details
3. Describe the various Transport mechanism in cell
4. Write a note on Nucleus
5. Write a note on Mitochondria