Yashwantrao Chavan College of Science, Karad B.Sc. – I Paper III- Basics of Cell Biology and Microbiology Question Bank

Q 1) Answer the following questions choosing the correct alternatives given below them

1) ----- cell organelles is absent in animal cell and present in plant cell.

a) cell wall	b) cytoplasm	
c) vacuoles	d) Mitochondria	
2) The cell theory is not applied for		
a)algae	b) Virus	
c) Bacteria	d) Fungi	
3) The pH of lysosome is		
a) Neutral	b) Acidic	
c) Basic	d) depends on the cell type	
4)cell organelles is called powerhouse of cells.		
a) Nucleus	b)Lysosome	
c) Chloroplast	d) mitochondria	
5) Cell wall is mainly composed of		
a) lipid	b) Starch	
c) cellulose	d) protein	
6) Rabies vaccine was developed by		
a) E.Jenner	b)Hooke	
c)Koch	d) Pasteur	
7) Unicellular fungi are called		
a)Bacteria	b) Yeast	
c) Molds	d) Algae	
8) Chromosome structure can be observed during		
a) Anaphase	b) Metaphase	
c) Prophase	d) telophase	

9) In 70S ribosomes 'S' stands for		
a) SI unit	b) Solubility factor	
c) Svedberg unit	d) All of these	
10) Rod shaped bacteria are known as		
a) Cocci	b) Comma forms	
c) Bacilli	d) Plemorphic forms	
11) Mesosomes are the part of		
a) Plasma membrane	b) ER	
c) Lysosomes	d) Golgi	
12) Bacterial ribosomes are composed of		
a) Protein and DNA	b) Protein and mRNA	
c) Protein and rRNA	d) Protein and tRNA	
13) Bacterial cell wall mainly composed by		
a) Peptidoglycan	b) Lipids	
c) Protein	d) Vitamin	
14)used carbolic acid to kill germs and prevent infection		
a) Ignaz Semmelweis	b) Paul Enrlich	
c) Joseph Lister	d) Robert Feulgen	
15)scientist discovered penicillin.		
a) Alexander Fleming	b) Selman Abraham Waksman	
c) Edward Jenner	d) P.A. Levene	
16)surgical practice was established by Lister		
a) Antisepsis	b) Chemotherapy	
c) Variolation	d) Sterilization	
17) Chromosome structure can be observed during		
a) Anaphase	b) Metaphase	
c) Prophase	d) telophase	
18) Polysomes are		
a) multiple units of ribosomes		
b) attachment of many ribosomes to a common mRNA		
c) attachment of many mRNA to a common ribosomes		
d) lysosomal aggregations		

19) The longest stage in cell cycle is------

a)Interphase 2	b)Interphase 1
c) Interkinases	d)None of the above
20)stage implies the exist of cells from the cell cycle	
a) S	b) G1
c) G2	d)G0

Q 2) Long Answer

- 1) Explain in detail contributions Robert koch.
- 2) Explain phases of cell cycle and Mitosis.
- 3) Draw a well labeled diagram of typical bacterial cell and discuss the structure and functions of flagella and cell membrane
- 4) Explain types of cells.
- 5) Discuss in detail general principles of bacterial nomenclatures

Q 3) Short notes

- 1) Endoplasmic reticulum
- 2) Capsule and slime layer
- 3) Harmful activities of microorganisms
- 4) Antony Van Leeuwenhoek
- 5) Ribosomes
- 6) Structure and functions of Mitochondria.
- 7) Beneficial activities of microorganisms
- 8) Bacterial Ribosome
- 9) Functions of pili
- 10)Mitosis