

**CELL BIOLOGY, GENETICS & DEVELOPMENTAL BIOLOGY**

**SEMESTER-IV, INTERNAL-I**

1. The Cell was first discovered by [a]  
a)Robert hooke      b)Porter      c)Benda      d)None
2. Lysosomes are also called as [b]  
a)Vesicle      b)Suicidal bag      c)Basal granules      d)Nucleous
3. The long flattened sac like structure called [c]  
a)Tuble      b)Vesicle      c)Cisternae      d)ER
4. The study of nucleus is called [d]  
a)Cytology      b)Mycology      c)Permiebility      d)Karyology
5. Cytokinesis refers to the division of into 2 daughter cells [b]  
a)cytoplasm      b)Nucleus      c)Nucleolus      d)None
6. \_\_\_\_\_ phase is the final stage of karyokinesis [a]  
a)Telophase      b)Anaphase      c)Prophase      d)Metaphase
7. Leptotene is also called as [a]  
a)bouquet stage      b)Flower stage      c)Colour stage      d)None
8. Gametes are produced by \_\_\_\_\_ process [b]  
a)Mitosis      b)Metosis      c)cyclins      d)None
9. \_\_\_\_\_ is the longest sub phase in metosis-I [d]  
a)Diakinesis      b)Metaphase      c)Anaphase      d)Pachytene
10. Polytene chromosomes were first observed by [a]  
a)Balbiani      b)Cramer      c)Ruckert      d)Aderson
11. \_\_\_\_\_ is the genetic material of all organize [a]  
a)DNA      b)RNA      c)both      d)protein
12. The sugar present in the DNA is called [b]  
a)Sugar      b)Deoxyribose      c)Deoxysome      d)None
13. The purines to pyrimidines ratio is equal to [c]  
a)2:1      b)1:5      c)1:1      d)a & b
14. In plants & viruses \_\_\_ act as the hereditary material [b]  
a)DNA      b)RNA      c)Protein      d) a & b
15. MRNA has been proposed by \_\_\_\_\_ [d]  
a)Cramer      b)Nageli      c)Porter      d)Jacob & Monad
16. In eukaryotes the starting amino acid is [a]  
a)Metinoine      b)Thrionine      c)Valine      d)Arginin
17. Regulation of transcription is also called as [b]

- a)Protein synthesis      b)Gene regulation      c)Transcription      d) a & b
18. \_\_\_\_\_ is the third step in PCR [c]
- a)Repetition      b)Annealing      c)Extension      d)Denaturation
19. The term electrophoresis was introduced by [a]
- a)Arne Tiselius      b)Cramer      c)Karymullis      d) a & b
20. Lac operon is a group of gene involved in [d]
- a)Galactose metabolism b)Valine metabolism      c)Lactamine metabolism d)Lactose metabolism

1. The cell is surrounded by a **plasma membrane**
2. Lysosomes were first described by **Christian de duve**
3. **Golgi complex** was described by Camillo golgi
4. Microtubules are madeup of **proteins**
5. The term plasma membrane was coined by **cramer and nageli**
6. The **fluid mosaic model** was proposed by singer & Nicolson
7. **Uniport** is passage of single ion or mole cule
8. The SER brings about **detoxification** in the liver
9. Ribosomes were first observed by **claude**
10. Ribosomes plays an important role in **protein sysnthesis**
11. **Centrioles** help in the formation of mitolic spindle during cell division
12. **Glycolysis** occurs inside the cytoplasm
13. The nucleolus was discovered by **fonana**
14. The giter most covering of the chromosome is **pellicle**
15. Lampbrush chromosomes were first observed in **salamander** oocytes
16. The division of the cytoplasm into two daughter cells is called **cytokinesis**
17. **Spindle fishes** make their appearance in the cytoplasm
18. RNA stands for **Ribonucleic acid**
19. PCR stands for **polymerase chain reaction**
20. FRNA is also called **insoluble RNA**

1. Define cell biology

Ans: It is the study of the structure and functions of the cells

2. Explain about the composition of plasma membrane

Ans: PM is composed of proteins and lipids and a small percentage of carbohydrates

3. Synport

Ans: Two mollecules pass in one direction

4. Autosomes

Ans: Chromosomes which carry gemes that control somatic characters

5. Karyokinesis

Ans: The division of nucleus into two daughter nucle is called karyokinesis

6. Define transcription

Ans: Process by which the synthesis of RNA molecule is initiated elongated and erminated

7. Electrophoresis

Ans: Migration of charged particles under the influence of an applied electric field

8. TLC

Ans: Thin layer chromatography

9. Wobble hypothesis

Ans: Means to swaj or more unsteadily

10. Demonstration of conservative method of DNA stand

Ans: Parent DNA