



Name

1- ہر سوال کے سامنے چار دائرے دئے گئے ہیں، صرف صحیح جواب والا دائرہ بھریں۔

2- دائروں کو شیڈ (بھرنے) کے لئے نیلے یا کالے رنگ کا مارکر استعمال کریں۔

Roll No

3- جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time Allowed: 20 Minutes

SECTION – A

Marks : 18

- 1 Lentiviruses include.....  HIV  SIV  FIV  All these
- 2 Causal bacterial organism of bacterial with disease is.....  Xanttusome  Ralstonia Solanacearum  Phaseoli  Agrobacterium tumifcian
- 3 Which preservative chemical is used to disinfect hospital instrument?  Formaldehyde  Citric acid  Glutaraldehyde  Phenols
- 4 Phytophthora infestens belongs to.....  Rhodophyta  Chlorophyta  Diatom  Oomycota
- 5 Athletes foot is.....disease.  Bacterial  Viral  Viroid  Fungal
- 6 Appendix is part of.....  Ileum  Duodenum  Caeum  Colon
- 7 Name of aminoacid contain sulphur in R-group is called....  Glutamate  Cystein  Lysine  Glutamine
- 8 Enzymes with 2 sites are called.....  Holoenzyme  Apoenzyme  Conjugated enzyme  Allosteric enzyme
- 9 Glycolate is converted to glycine in.....  Mitochondria  Chloroplast  Peroxisome  Glyxisome
- 10 What molecule are formed during conversion of 1,3-PGA to 3-PGAL of calvin cycle?  Pi + NADP  NADPH<sub>2</sub>+ATP  CO<sub>2</sub> + NADH<sub>2</sub>  FADH<sub>2</sub> & NADH<sub>2</sub>
- 11 Glycolysis occurs in.....  Mitochondria  Cytoplasm  Nucleus  Ribosome
- 12 The word Hepatitis means inflammation of.....  Liver  Heart  Kidney  Stomach
- 13 Safranine is suitable for.....  Nuclei  Lignine  Plant tissues  All these
- 14 Prokaryotes have size of ribosome?  80s  60s  70s  30s
- 15 The movement of cytoplasm inside cell is.....  Glyolysis  Cyclone  Cyclosis  Cytosol
- 16 The chemical composition of water in both mammalian and bacterial cell is.....  75%  90%  80%  70%
- 17 The functional group of fatty acid is.....  -OH  -COOH  -CHO  R-C-R
- 18 Chitin is.....  Polysaccharide  Wax  Oligo-sachoride  Mono-saccharide

Note: Time allowed for Section – B and Section – C is 2 Hours and 40 minutes.

**Section – B**

Marks: 40

Q-II Answer any TEN parts. Each part carries FOUR marks.

1. What do you know about the peroxisomes?
2. Explain polysaccharide with example.
3. What are functions of proteins?
4. Draw graphical representation of electron transport chain?
5. What is feed back inhibition?
6. Classify virus on basis of hosts.
7. Explain bacteria as "Nutrient Recycler".
8. Write down general characteristics of fungi.
9. Differentiate between microphyllous and megaphyllous leaf.
10. Discuss economic importance of sponges.
11. What is starch sugar theory?
12. Write note on Anorexia-nervosa.
13. How interstitial fluid is formed?

**Section – C**

Marks: 27

Note : Attempt any THREE questions. All questions carry equal marks.

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|-------|--|---|
| Q-III | (a) Define inflorescence. Discuss its types in detail.                               | 7 |
|       | (b) Draw a diagram of plant cell.  | 2 |
| Q-IV  | (a) Alternation of generation in adiantum.   | 4 |
|       | (b) Morphology of selaginella  | 5 |
| Q-V   | What do you know about autoimmune disease? Give some examples of autoimmune disease. | 9 |
| Q-VI  | Write note on any three of the following:  |   |
|       | (a) Tissue Culture   | 3 |
|       | (b) Co-factor  | 3 |
|       | (c) Lichens  | 3 |
|       | (d) Bacterial wilt   | 3 |