

**Time-3 hours**

**Instruction :-**

1. All Questions are compulsory.
2. Q.No. 01 to 04 carry 5 marks each, and each part carry 01 marks.
3. Q.No. 05 to 07 carry 2 marks each, word limit is 30
4. Q.No. 08 to 10 carry 3marks each, word limit is 75
5. Q.No. 11 to 15 carry 4 marks each, word limit is 120
6. Q.No. 16 to 18 carry 5 marks each, word limit is 150

**Q.1 choose the correct option-**

**(a) Male sex organ of flower is called.**

1. Calyx
2. Corolla
3. Androecium
4. Gynaeceum

**(B) Bacteria which is covered by flagella is called**

1. Peritrichous
2. Atrichous
3. Monotrichous
4. Amphitrichous

**(C) N<sub>2</sub> fixation is done by which part of Nostok**

1. Heterocyst
2. Somatic cell
3. Akinetes
4. Hormogonia

**(d) The inflorescence found in sunflower is**

1. Capitulum
2. Symiose
3. Catkin
4. Spadix

**(e) Power house of the cell**

1. Mitochondria
2. Ribosome
3. Golgi body
4. Lysosome

Q.2 Fill in the blanks-

- (a) Botanical name of Mango is-----
- (b) Anemia is caused due to the deficiency of-----
- (c) Naked Seeds are found in-----
- (d) Meiosis cell division takes place in----- cells.
- (e) -----type of ribosome is found in prokariotic cells.

Q.3 write true/false-

- (a) Blood is a connective tissue.
- (b) Ligaments connect the bone with bone.
- (c) Heterospory is found in Selaginella.
- (d) Largest Phylum is Mollusca.
- (e) Closed type vascular bundle present in Dicot plants.

Q.4 Match the Columns:-

- |                                |             |
|--------------------------------|-------------|
| (a) Tomato, Potato and Brinjal | Arthropoda  |
| (b) Pterido Phyta              | Solanaceae  |
| (c) Maska-domartica            | Selaginella |
| (d) Anneilda                   | Ribaromes   |
| (e) Protein Factory            | Earthwarm   |

Q.5 what is classification?

(OR)

What type of living beings are included in Monera?

Q.6 Write two differences between Red algae and brown algae.

(OR)

Write two differences between porifera and coelenterata.

Q.7 Write the name of organs of the flower.

(OR)

What is Lichen?

Q.8 Write three example of Baridomycetes.

(OR)

What are the general characteristics Echinodermeta?

Q.9 Write the function of Nuclens of cells.

(OR)

What are the general characteristics of Reptiles?

Q.10 Draw Labelled diagram of elementary canal of cockroach?

(OR)

Draw labelled diagram of male reproductive system of Earthwarm.

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Q.11 write the difference between mitosis and mitosis cell division.

(OR)

What do you mean by Vanation. How many types of Vanation? Explain with example.

Q.12 Write the difference between DNA and RNA.

(OR)

Write the difference between plant cell and animal cell.

Q.13 Write the difference between prokariotic and Eukariotic cell.

(OR)

Why xylum and phloem are called complex tissues? give there functions?

Q.14 What do you mean by aeastivation? How many types of aestivation explain with diagram?

(OR)

What is floral formula? Explain with floral diagram.

Q.15 Write the difference between blood and Lymph.

(OR)

What do you mean by monosaccharides? How many types of monosaccharides on the basis of number of carbon?

Q.16 Classify Bacteria on the basis of nutrition.

(OR)

Explain structure of Bacteriophage virus with diagram.

Q.17 What are the general characteristics of mammals?

(OR)

What are the general characteristics of Brayophyta?

Q.18 How many types of chromosomes on the basis of position of centromere?

Explain with diagram.

(OR)

Explain structure of chloroplast with diagram.

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