

Instruction: Illustrate gives answers with neat and labeled diagrams.

**PART:A** Give any five Answer of following question. (5)

1. Extra chromosomal circular DNA in bacteria known as ?  
(A) Plasmid (B) gene (C) genome (D) DNA
2. All the bacteria fix nitrogen except  
(A) Rhizobium (B) E-coli (C) Azatobacter (D) Cynobacteria
3. Classification manual of Bacteria is  
(A) Bergy's Manual (B) Brown  
(C) Gene by laving (D) Reference manual of Microbiology.
4. Surface eppendage that involved in Reproduction.  
(A) Fimbriae (B) Pili (C) Stalk (D) Flagella.
5. Flagella is made up of  
(A) Flagellin. (B) Tubulin.  
(C) Myoglobin. (D) Haemoglobin.
6. Extremophile include  
(A) Mesophile (B) Neutrophile  
(C) Thermophiles (D) Acidophiles.

**PART:B** Give any five Answer of following question. (5)

1. Define: Biodiversity
2. Define : Plasmid
3. Define: Capsule
4. Define : Glycocalax
5. Define : 5-layer
6. Define : Periplamic space.

**PART:C** Give any Three Answer of following question. (6)

1. Enlist types of Biodiversity.
2. Enlist surface eppendages of Bacteria.
3. Define archea bacteria and give it's two examples.
4. Enlist different layers of Bacteria.

**PART:D** Give any Three Answer of following question. (12)

1. Explain Species concept.
2. Explain Miller's experiment.

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3. Explain : Lichan.
4. Explain Five kingdom system.

**PART:E** Give any Two Answer of following question.

1. State difference between Gram +ve and Gram – ve organism..
2. State difference between Eubacteria and archea bacteria.
3. Explain Protozoa.

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