

- Note : 1) All Questions are compulsory. Marks : 60
2) Draw neat labelled dicegram wherever necessary.

Q.1 A) Match the following

(5)

'A'

- 1) Simple Media
- 2) Decolorizer
- 3) Isolation
- 4) Growth factor
- 5) Photolithoautotrophs

'B'

- a) Amino acid
- b) Blue green algae
- c) Alcohol
- d) Agar
- e) T streak method
- f) Allen no. 3
- g) Ca^{+2} ion.

B) Answer the following (Any 2)

(10)

- 1) Explain the various steps involved in preparation of media ?
- 2) Describe serial sub culturing method and mineral oil overlay method of preservation
- 3) Write a note on nutritional classification of microorganisms.

Q.2 A) Define any five of the following

(5)

1. Codominance
2. Partial dominance
3. Antibodies
4. Blood typing
5. Epistasis
6. Lethal allele
7. Hypostatic gene

B) Attempt any two of the following

(10)

1. Explain with a neat labelled diagram Davis 'U' tube experiment ?
2. Describe incomplete dominance with a suitable example ?
3. Write a note on multiple alleles ?

Q. 3 A) Give functions of the following (Any 5)

1. Epithelial tissue
2. Connective tissue
3. Muscular tissue
4. Neruous tissue
5. Neuron
6. Dendrites
7. Axon.

B) Ansewer the following (Any 2)

- 1) Describe with a neat labelled diagiram Animal cell ?
- 2) Explain muscular tissue and add a note on its function ?
- 3) Define tissue ? Explain Nervous tissue in detail ?

Q. 4 Answer the following (Any 3)

- 1) Write a note on connective tissue ?
- 2) Explain essetial genes and lethal alleles ?
- 3) Give an account of spread plate method of enumeration ?
- 4) Describe dominant epistasis with an example ?

All The Best