

Q-1 Attempt the following multiple choice question.

(06)

- (1) This nitrogen base is absent in the RNA.
(a) Uracil (b) Thymine (c) Cytosine (d) None of these
- (2) Ca-DPA is the feature of this part of bacteria.
(a) Pili (b) Flagella (c) Endospore (d) Cell membrane
- (3) The High power objective of the microscope provides magnification of
(a) 20x (b) 40x (c) 10x (d) 100x
- (4) The color of gram Positive bacteria after being stained by Gram's method will be seen as
(a) Purple (b) Pink (c) Green (d) Red
- (5) The factor that inhibits the microbial growth is called
(a) Exponential rate (b) Dormant factor
(c) Growth factor (d) The limiting factor
- (6) Organisms that use CO₂ as their sole source of carbon for assimilation are termed
(a) Heterotrophs (b) Autotrophs
(c) Chemotrophs (d) None of above

Q-2 Attempt the following (any three)

(06)

- (1) Write two functions of Pili.
- (2) Write two functions of Capsule.
- (3) Why fixation of smear is necessary?
- (4) Write the difference between Mordant and Intensifier?
- (5) Define the following:
(a) Transitional period (b) Organotrophs
- (6) List common ingredients of culture media.



Q-3 Describe bacterial Flagella.

(06)

OR

Q- 3 Write a brief note on Bacterial Endospore.

(06)

Q-4 Describe the Principle, working and application of compound microscope.

(06)

OR

Q-4 Write a note on Gram Staining.

(06)

Q-5 Describe streak plate and spread plate method used for isolation of bacteria.

(06)

OR

Q-5 Describe the nutritional requirements of micro organisms.

(06)

*****-End-*****