

B.Sc. (Part – I) (Semester II)(NEP) Examination Mar/Apr-2024

Balasaheb Desai College, Patan

Microbiology

Subject Code –90230

Bacteriology (Paper –III)

Day and Date –Thursday, 04/04/2024

Time – 2.30 pm to 4.30 p.m.

Total Marks- 40

Period- 2 hours

Total Pages-02

- Instruction -**
- 1) *All the questions are compulsory.*
 - 2) *Figures to the right indicate full marks.*
 - 3) *Draw neat labelled diagrams wherever necessary.*

Q.1 Rewrite the following sentences choosing the correct alternatives given below. 08

1. ----- works as a solidifying agent in culture media.
a) NaCl b) peptone c) Yeast Extract d) Agar Agar
2. Palladium catalyst is present in -----
a) Brewer's anaerobic b) Anaerobic Gas Pack system c) Candle jar d) Anaerobic chamber
3. ----- type of medium is also called as empirical medium.
a) Synthetic b) Natural c) Complex d) selective
4. ----- medium is used to check the amylase activity of bacteria.
a) MacConkey's agar b) Starch agar c) Nutrient agar d) Milk agar
5. Knallgas means mixture of -----
a) Oxygen+hydrogen b) Nitrogen+Oxygen c) Hydrogen+ Nitrogen d) methane+oxygen
6. ----- is an example of differential media.
a) Nutrient Agar b) Blood Agar c) Nutrient Broth d) Peptone Water
7. ----- component of media is used to maintain osmotic balance of medium but not as nutrient.
a) Peptone b) Meat Extract c) NaCl d) Agar Agar
8. ----- indicator is used to check starch hydrolysis in amylase test.
a) Methyl red b) phenol red c) Chlorine d) Iodine

Q.2 Attempt following question (Any Two)

16

1. Discuss methods for the isolation and cultivation of anaerobes by mechanical exclusion of free oxygen.

2. Define nutrition. Discuss nutritional classification of organisms
3. Describe H₂S test used for Biochemical identification of bacteria.

Q. 3 Write short notes on (any four)

16

1. Catalase test
2. Colony characteristics of Bacteria
3. Microelements
4. Growth factor
5. Natural media
6. Differential media
