

Royal College of Arts, Science & Commerce
Sample Questions
TYBSc Semester V
Microbiology Paper IV (USMB 504)

Note : Each multiple choice question in section I carries 1 mark
Each multiple choice question in section II & III carries 2 marks

Section I

- Q1 Which of the following is NOT the technique of preservation?
a Storage on agar slants
b Storage under liquid nitrogen
c Dried cultures
d Storage in water
- Q2 Which of the following is absent in fermentation media?
a Carbon
b Nitrogen
c Agar
d Water
- Q3 In which of the following fermenters, the impellers are replaced by the constant flow of gas?
a Airlift fermenter
b Deep jet fermenter
c Photobioreactor
d Stirred Tank Fermentor
- Q4 The Continuous culture is a/an _____ culture system.
a Open
b Closed
c Isolated
d Semi-closed
- Q5 Vinegar is produced from :
a Ethanol
b Acetic acid
c Lactic acid
d Koji

Section II

- Q6 Auxanography is used for screening of _____.
a Antibiotic producers
b Amine producers
c Acid producers
d Amino acid producers

Contd.....

- Q7 Which of the following is not a scale-up process?
 a Laboratory to pilot-scale
 b Pilot-scale to industrial-scale
 c Industrial to pilot-scale
 d Lab scale to bench scale
- Q8 Which of the following is not the component of aeration and agitation system?
 a Impeller
 b Baffles
 c Stirrer gland and bearing
 d Needle valve
- Q9 Auxotrophs are used in production of:
 a Intermediates of metabolic pathways
 b Analogues of primary metabolites
 c End products of unbranched pathways
 d Foam during fermentations
- Q10 Bakers yeast is used as _____
 a Animal feed
 b Source of protein supplement
 c As inoculum of baking process
 d As inoculum for brewing process

Section III

- Q11 Secondary metabolites are produced using revertants _____.
 a Of mutants auxotrophic for primary metabolites that are precursor of secondary metabolite
 b Of mutants prototrophic for primary metabolites that direct synthesis of secondary metabolite
 c Of auxotrophs that synthesize secondary metabolites
 d Of prototrophs that synthesize secondary metabolites
- Q12 Beet molasses are used as _____.
 a Carbon source but is high in biotin
 b Carbon source but is high in salt
 c Carbon source but is low in biotin
 d Carbon source but is low in salt
- Q13 Del factor is defined as :
 a Fractional reduction in number of microbes in the given time temp regime
 b Fractional reduction in number of microbes in the given volume of medium
 c Fractional reduction of indicator organism in the given time temp regime
 d Fractional reduction of indicator organism in the given volume of the medium

Contd...

- Q14 CO₂ in exit gas is detected using _____.
a Paramagnetic analyser
b Infra red spectrometer
c Rotameter
d Burdon gauge
- Q15 Sulphur dioxide used in wine making controls:
a Bacterial contaminants
b Alcohol yield
c Malic acid levels
d Color extraction

@@@@@