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SESSION-2021-22

SUBJECT-MICROBIOLOGY

CLASS-BSc 2nd year

SEM- III

Date-

Max marks – 30

- 1 Media is used to study enzyme activity of lipase.
a) Tween 80 hydrolysis media b) Mueller Hinton agar c) Starch Agar d) Potato Dextrose Agar
- 2 Scientistin 1888 first isolated bacterium from root nodules of leguminous plant.
a) Pasture b) Beijerinck c) Waksman d) Koch
- 3 *Rhizobium species* grow well onmedium and produce whitish colonies.
a) MacConkey agar b) EMB agar c) UTI agar d) YEM agar
- 4 Catalase test is performed by adding on nutrient agar culture slant.
a) H₂O b) H₂O₂ c) HCl d) NaOH
- 5 In urease enzyme activity test of organism the colour of media changes from yellow toin positive test.
a) White b) red c) pink d)
- 6 Enzyme breaks down starch into sugar.
a) lipase b) amylase c) ligase d) catalase
- 7 *Rhizobium* is inrelationship with the roots of plants.
a) Synergistic b) Symbiotic c) Commensalism d) parasitism
- 8 Urease enzyme decompose Urea to
a) Ammonia b) Uric Acid c) Water and gas d) HCl
- 9 Colour after addition of iodine solution indicates presence of starch.
a) Blue b) purple c) Pink d) Red
- 10 End product of EMP pathway is
a) Glucose b) Pyruvate c) Fructose 6 phosphate d) fructose
- 11 Amylase production test of organism is studied on the medium
a) Nutrient agar b) Mueller Hinton agar c) Starch agar d) EMB agar
- 12is the area of soil immediately surrounding the root of plant
a) *Rhizopus* b) stem c) Lipase d) root
- 13 In Microbiology, PDA stands for
a) Potato dextrose agar b) patent ductus arteriosus c) personal digital assistant d) protein primary amines

- 14 In bacterial growth curve is the phase of constant high population of cells, that is maintained by a balance between cell division and cell division and cell death.
- a)Log phase b) maximum stationary phase c) lag phase d) death phase
- 15 Jensen's media is recommended for the cultivation of.....fixing bacteria.
- a)Phosphorus b)Nitrogen c)oxygen d)carbon
- 16are the formulations of living microorganisms used to increase soil fertility.
- a)Bio pesticide b)bio insecticide c)bio fertilizer d) chemical fertilizer
- 17 Lipase is..... enzyme.
- a)Extracellular b)Intracellular c)Iso-enzyme d)Ligase
- 18 Bacteria are incubated at.....for 24 hours.
- a)30 °C b) 20°C c)28 °C d) 37°C
- 19 Root nodules are immersed in 1% acidified..... For 5 minutes to remove contaminants.
- a)HCl b) NaCl c) HgCl₂ d)H₂O
- 20 The zone of opacity produced by lipase positive organisms is composed of crystals of
- a)Magnesium salts b)copper salts c)sodium salts d)calcium salts
- 21is the Gram positive organism.
- a)*E. coli* b) *Rhizobium sp.* c)*S. aureus* d)*Pseudomonas sp.*
- 22is known as father of modern enzymology.
- a)Berzelius b)Sumner c)Koch d)Pasteur
- 23 In holoenzyme protein part is called as
- a)coenzyme b)apoenzyme c)cofactor d)isoenzyme
- 24 In Jensen's media increases the fixation of N₂
- a)carbohydrate b)sodium chloride c)sodium molybdate d)Calcium
- 25is the component of photoelectric colorimeter.
- a)Resistor b)Diode c) cotton plug d)galvanometer.

Answer in one sentence

5 marks

- 1) Enlist the phases of bacterial growth curve.
- 2) What is fermentation? And mention 2 types of fermentation.
- 3) Name the factors affecting enzyme activity.
- 4) What is Nitrogen fixation?
- 5) Define synergism