

GURUDAS COLLEGE  
DEPARTMENT OF BIOCHEMISTRY  
UG INTERMEDIATE EXAMINATION, 2020  
B.SC BIOCHEMISTRY HONS. SEMESTER IV

PAPER Core Course 10 Basic Microbiology and Microbial Genetics BCM-A-CC-4-10-TH

TIME 30 mins

FULL MARKS

10+25

Choose correct answer:

1. Yeast extract is an excellent source of
  - a. Vitamin A
  - b. Proteins
  - c. Vitamin B
  - d. Carbohydrates
  
2. The main product of glycolysis under aerobic conditions is
  - a. Pyruvate
  - b. Lactate
  - c. none of these
  - d. both a and b
  
3. The major constituents in agar are
  - a. Fats
  - b. Amino acids
  - c. Polysaccharides
  - d. Polypeptides
  
4. Virus can be cultivated in
  - a. lab media
  - b. broth
  - c. living cells
  - d. none of these
  
5. Spores are killed by
  - a. 70% ethanol
  - b. glutaraldehyde
  - c. autoclaving
  - d. both b and c
  
6. Example of anaerobic medium is
  - a. Robertson cooked-meat medium
  - b. Nutrient agar

- c. Nutrient broth
- d. Mac-Conkey's Agar

7. Agar is obtained from
- a. Brown algae
  - b. Red algae
  - c. Green algae
  - d. Blue-green algae
8. In autoclave, the principle involved is
- a. Dry heat
  - b. Moist heat
  - c. Steam under pressure
  - d. both b and c
9. A facultative anaerobic is
- a. Only grow anaerobically
  - b. Only grow in the presence of O<sub>2</sub>
  - c. Ordinarily an anaerobe but can grow with O<sub>2</sub>
  - d. Ordinarily an aerobe but can grow in absence of O<sub>2</sub>
10. The bacterial cell multiplication is usually by
- a. Mitosis
  - b. Meiosis
  - c. Conjugation
  - d. Binary-fission
11. The most important vitamin for the growth of bacteria is
- a. B-complex
  - b. Vitamin A
  - c. Vitamin D
  - d. Vitamin C
12. Bacteria are more sensitive to antibiotics at which phase of growth curve?
- a. Decline phase
  - b. Stationary phase
  - c. lag phase
  - d. log phase
13. Viral antigens are likely
- a. Proteins
  - b. Glycoproteins

- c. Lipoproteins
- d. Both a and b

14. The viruses that live as parasites on bacteria are

- a. Fungi
- b. Commensals
- c. Bacteriophages
- d. none of these

15. Best method for getting pure culture is

- a. Streak-plate
- b. Agar slant
- c. both a and b
- d. none of these

16. What is the primary stain in Gram staining

- a. Crystal violet
- b. Safranin
- c. Gram's Iodine
- d. Methylene blue

17. Acidic dyes at physiological pH are

- a. Positively charged
- b. Negatively charged
- c. Neutral
- d. None of these

18. Basic dyes at physiological pH are

- a. Positively charged
- b. Negatively charged
- c. Neutral
- d. None of these