

**FIRST MID TERM EXAM 2021****CLASS XII****MICROBIOLOGY****Marks: 50**

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**PART A****Answer all the questions****I. CHOOSE THE CORRECT ANSWER (10×1=10)**

1. The size of the nanoparticles-----.
  - a) Less than 10 nm
  - b) 100 nm or less
  - c) 100 nm or more
  - d) None of the above
2. \_\_\_\_\_ is an example for optical imaging technique.
  - a) CLSM
  - b) LCSM
  - c) BOTH A & B
  - d) TEM
3. Who invented phase contrast microscope.
  - a) Robert Koch
  - b) Frits Zernike
  - c) Georage
  - d) Alexander Flamming
4. \_\_\_\_\_ electrons are mainly used in SEM.
  - a) Transmitted
  - b) Primary
  - c) Secondary
  - d) Elastically scattered
5. Fluorescence microscope is used to identify \_\_\_\_\_ bacteria in clinical specimen.
  - a) Treponema pallidum
  - b) Bacillus anthracis
  - c) mycobacterium tuberculosis
  - d) staphylococcus aureus
6. In disc diffusion method \_\_\_\_\_ agar medium is used.
  - a) Nutrient agar
  - b) Blood agar
  - c) Muller- Hinton agar
  - d) SDA
7. Antibiotic that kills bacteria is referred as \_\_\_\_\_.
  - a) Antiseptic
  - b) Bacteriostatic
  - c) bactericidal
  - d) phenol

8. Which of the following agents are used as a preservative in ophthalmic solutions?
- a) Alcohol      b) Phenol      c) aldehydes      d) Quaternary ammonium salts
9. In an aerobic respiration the terminal electron acceptor is \_\_\_\_\_
- a) oxygen      b) nitrogen      c) hydrogen      d) nitrate
10. Apo enzyme + co enzyme = \_\_\_\_\_
- a) Cofactor      b) Active site      c) enzyme      d) Holo enzyme

**PART -B**

Answer ANY FIVE questions

(5×2=10)

- 11) Write two methods of sequencing DNA?
- 12) What is the magnification of TEM?
- 13) Write the types of electron microscope?
- 14) Define Antibiotics.
- 15) Define Antiseptic
- 16) What is E-test?
- 17) Mention the components of ATP
- 18) What is oxidation?

**PART -C**

Answer ANY FIVE questions

(5×3=15)

- 19) Descriptive about Nano particles?
- 20) Write any three difference between TEM and SEM.
- 21) List out the components of fluorescence microscope?
- 22) Write important cell wall attacking drugs?
- 23) Write a disc diffusion method?
- 24) Describe mode of action of antibiotics flow chart?
- 25) What is enzyme inhibition? give its types?

**PART –D**

**Answer all the questions**

**(3×5=15)**

**26) a) Brief note on DNA sequencing methods?**

**(or)**

**Write any five difference between Light and Electron microscope.**

**27) a) write about phenol co-efficient test used to in evaluation of antimicrobial chemical agents?**

**(or)**

**b) Draw the components of fluorescence microscope and describe it.**

**28) a) Write Glycolysis pathway?**

**(or)**

**b) Difference between bactericidal and bacteriostatic.**