

University of Mumbai
Semester Theory Examination Second Half 2020
Section I: Multiple choice questions (MCQ'S)

Year/Semester : Third Year B. Pharmacy (V Semester)

Subject : Pharmaceutical Biotechnology

Subject Code : BPH_C_503_T

1. Which is most suitable media for PTC?
 - a. M S media
 - b. Nutrient Broth
 - c. PDB broth
 - d. SDA Media.

2. Which is not a step in vaccine preparation?
 - a. Killing
 - b. Fractionation
 - c. Adsorption and conjugation
 - d. Desorption

3. The percentage of immunoglobulin IgG in blood is-----
 - a. 80%
 - b. 60%.
 - c. 3%.
 - d. 0.03%

4. Widal test is a -----
 - a. ELISA test
 - b. Agglutination Test
 - c. Coagulation Test
 - d. Electrophoresis Test

5. Probe is a -----
 - a. Protein for detecting a specific DNA molecule
 - b. Short piece of labeled DNA which are complementary to the nucleic acid strand to be detected

- c. Short piece of labeled DNA or RNA which is complementary to the nucleic acid strand to be detected
 - d. Protein for detecting a specific RNA molecule
6. PCR is a -----
- a. DNA amplification method
 - b. Western blotting method
 - c. DNA digestion method
 - d. DNA fragmentation method
7. Transcription is -----
- a. DNA to RNA
 - b. RNA to protein
 - c. cDNA to DNA
 - d. RNA to DNA
8. Sparger in stirred tank bioreactor helps in -----
- a. Proper CO₂ distribution
 - b. Proper mixing of medium
 - c. Measuring temperature of medium
 - d. Better sterility
9. Which of the following process is used in the recovery of the product?
- a. Downstream processing
 - b. Upstream processing
 - c. Chromatography
 - d. Treatment process
10. Biotransformation is.
- a. Catalytic conversion.
 - b. Enzymatic conversion
 - c. Non- enzymatic conversion
 - d. Chemical conversion
11. Anti-tetanus sera is prepared from...

- a. *Clostridium tetanae*
- b. *Clostridium diphtheriae*
- c. *Saimonella typhi*
- d. *Vibrio cholerae*

12. Tuberculin type comes under which type of hypersensitivity?

- b. Type I Hypersensitivity
- c. Type III Hypersensitivity
- d. Type II Hypersensitivity
- e. Type IV Hypersensitivity

13. Which antibodies are present in least quantity in the human body?

- a. IgM
- b. IgG
- c. IgE
- d. IgD

14. Which of the following is not type of biosensor ...

- a. Magnetic biosensor
- b. Thermometric biosensor
- c. Optical Biosensor
- d. Titrimetric Biosensor

15. Which organism used for the production of penicillin antibiotic?

- a. *Penicillium notatum*
- b. *Aspergillus niger*
- c. *Bacillus subtilis*
- d. *Bacillus cereus*

16. Difference between plasmid and cosmid vector -----

- a. Antibiotic Resistance Gene

- b. COS sites
- c. Origin of Replication
- d. Marker regions

17. Which is not an organic synthetic carrier used in immobilization process is -----

- a. Acrylic polymers
- b. Starch
- c. Polyvinyl acetate
- d. Polystyrene

18. Which end of DNA is phosphorylated by Alkaline Phosphatase enzyme?

- a. 3' End
- b. 5' End
- c. 2' End
- d. Both 3' and 5' End

19. Antibody chains are linked together by -----

- a. Covalent Bonds
- b. Hydrogen Bonds
- c. Disulphide Bonds
- d. Hydrophilic Bonds

20. Toxoid preparations comes under-----technique.

- a. Passive immunization
- b. Active immunization
- c. Natural Immunization
- d. Common immunization