

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH**MBBS DEGREE - IInd PROFESSIONAL - SUPPLEMENTARY EXAMINATION - APRIL 2025****MICROBIOLOGY - PAPER - I****SECTION A - Multiple Choice Questions (MCQs)**

PAPER CODE : 2521130006

SET : B

Note: Choose one correct answer in the OMR sheet provided. No overwriting should be done.

Time: 20 Minutes

(20 x 1 = 20 MARKS)

1. When is World Antimicrobial Awareness Week (WAAW) celebrated?

- a) 1–5 July
- b) 4–10 October
- c) 23–30 December
- d) 16–22 November

2. Which of the following is a commensal in human intestines?

- a) *Shigella dysenteriae*
- b) *Salmonella typhi*
- c) *Vibrio cholerae*
- d) *Escherichia coli*

3. Most likely mode of transmission in a child with anti-HAV IgM positivity:

- a) Sexual route
- b) Feco-oral route
- c) Direct contact
- d) Parenteral route

4. Which of the following is a high level disinfectant?

- a) Lysol
- b) Benzalkonium chloride
- c) 70% ethyl alcohol
- d) Glutaraldehyde

5. Mycoplasma are bacterial cells that:

- a) Have a rigid cell wall
- b) Fail to reproduce on artificial media
- c) Stain well with Gram stain
- d) Are resistant to penicillin

6. Schizonts are not seen in peripheral blood smear of:

- a) *Plasmodium falciparum*
- b) *Plasmodium vivax*
- c) *Plasmodium ovale*
- d) *Plasmodium malariae*

7. Which of the following is NOT true about Taq DNA polymerase?
- a) Acts as exonuclease
 - b) Functions at high temperatures
 - c) Requires buffer
 - d) Adds nucleotides
8. Autoclaving and micro-venting are done for which type of medical waste?
- a) Recyclable contaminated waste
 - b) Human anatomical waste
 - c) Microbiological waste
 - d) Cytotoxic drugs
9. The reaction of soluble antigen with antibody is known as:
- a) Opsonization
 - b) Agglutination
 - c) Neutralization
 - d) Precipitation
10. Which of the following is a true statement regarding Inactivated Polio Vaccine (IPV)?
- a) It is made up of a single strain
 - b) IPV provides herd immunity
 - c) It should not be given along with OPV
 - d) It is available as IM and ID preparations
11. Biosafety cabinet Class II is designed for:
- a) Environmental, personal & product
 - b) Environmental and personal
 - c) Product and personnel
 - d) Personal
12. HIV-positive patient with watery diarrhea and acid-fast cysts (8–12 μm):
- a) Entamoeba histolytica
 - b) Escherichia coli
 - c) Cyclospora
 - d) Cryptosporidium
13. Which of the following is Type IV hypersensitivity reaction?
- a) Arthus reaction
 - b) Serum sickness
 - c) Tuberculin reaction
 - d) Schumann reaction
14. Which immunoglobulin activates the classical complement pathway?
- a) IgA
 - b) IgD
 - c) IgE
 - d) IgM

15. Viral infections with double-stranded RNA virus in a child is caused by:

- a) Rotavirus
- b) Influenza virus
- c) Measles virus
- d) Reovirus

16. Which of the following media is used as transport medium for vibrios?

- a) Nutrient broth
- b) Selenite F broth
- c) Venkataraman–Ramakrishnan
- d) Tetrathionate broth

17. Chemical nature of endotoxin is:

- a) Protein
- b) Lipopolysaccharide
- c) Carbohydrates
- d) None

18. An example of a simple stain is:

- a) Ziehl–Neelsen stain
- b) Gram's stain
- c) Giemsa stain
- d) Methylene blue stain

19. Agar agar used in media is:

- a) Meat extract
- b) Nutritional
- c) Factor X & V
- d) Solidifying agent

20. Metachromatic granules are chemically composed of:

- a) Proteins
- b) Lipids
- c) Polymetaphosphates
- d) Polysaccharides
