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Microbiology — 30 MCQs

Biology | AFNS Academic Test Preparation (FSc Level)

1. Bacteria use which structure for movement?

- A) Cilia
- B) Flagella
- C) Pseudopodia
- D) Pili

✓Answer: B) Flagella

2. Yeast is used in baking because it produces:

- A) Oxygen and water
- B) CO₂ and ethanol during fermentation
- C) Lactic acid only
- D) Starch

✓Answer: B) CO₂ and ethanol during fermentation

3. Polio is caused by a:

- A) Bacterium
- B) Fungus
- C) Virus
- D) Protozoan

✓Answer: C) Virus

4. Bacteria are classified as:

- A) Eukaryotes
- B) Prokaryotes
- C) Fungi
- D) Protists

✓Answer: B) Prokaryotes

5. Penicillin was discovered by:

- A) Louis Pasteur
- B) Robert Koch
- C) Alexander Fleming
- D) Edward Jenner

✓Answer: C) Alexander Fleming

6. Viruses are considered non-living because they:

- A) Cannot move
- B) Have no metabolism outside a host cell
- C) Lack carbon
- D) Have no genetic material

✓Answer: B) Have no metabolism outside a host cell

7. Tuberculosis (TB) is caused by:

- A) Mycobacterium tuberculosis
- B) Streptococcus pneumoniae
- C) Plasmodium
- D) HIV

✓Answer: A) Mycobacterium tuberculosis

8. The outer protein coat of a virus is called a:

- A) Cell wall
- B) Capsid
- C) Membrane
- D) Envelope

✓Answer: B) Capsid

9. Which of the following is a bacterial shape that is spherical?

- A) Bacillus
- B) Spirillum
- C) Coccus
- D) Vibrio

✓Answer: C) Coccus

10. Malaria is caused by which organism?

- A) Virus
- B) Bacterium
- C) Plasmodium (protozoan)
- D) Fungus

✓Answer: C) Plasmodium (protozoan)

11. The vector for malaria is:

- A) Aedes mosquito

- B) Anopheles mosquito
- C) Housefly
- D) Sandfly

✓Answer: B) Anopheles mosquito

12. Cholera is caused by:

- A) Vibrio cholerae
- B) E. coli
- C) Salmonella
- D) Clostridium

✓Answer: A) Vibrio cholerae

13. The process of destroying all microorganisms including spores is called:

- A) Disinfection
- B) Pasteurisation
- C) Sterilisation
- D) Antisepsis

✓Answer: C) Sterilisation

14. Pasteurisation destroys pathogens by using:

- A) Chemicals
- B) UV light
- C) Controlled heat
- D) Radiation

✓Answer: C) Controlled heat

15. Which of the following is a rod-shaped bacterium?

- A) Coccus
- B) Spirillum
- C) Bacillus
- D) Vibrio

✓Answer: C) Bacillus

16. HIV attacks which type of cell?

- A) Red blood cells
- B) CD4+ T-helper cells
- C) Platelets
- D) Neurons

✓Answer: B) CD4+ T-helper cells

17. Fungi reproduce mainly by:

- A) Binary fission
- B) Spore formation
- C) Budding only
- D) Mitosis only

✓Answer: B) Spore formation

18. The causative agent of typhoid is:

- A) Salmonella typhi
- B) E. coli
- C) Vibrio cholerae
- D) Shigella

✓Answer: A) Salmonella typhi

19. Antibiotics are effective against:

- A) Viruses
- B) Bacteria
- C) Prions
- D) All microorganisms

✓Answer: B) Bacteria

20. The term "pathogen" means:

- A) A beneficial organism
- B) A disease-causing organism
- C) A decomposer
- D) A saprophyte

✓Answer: B) A disease-causing organism

21. Which kingdom do bacteria belong to?

- A) Protista
- B) Fungi
- C) Monera
- D) Plantae

✓Answer: C) Monera

22. Rhizobium bacteria are important because they:

- A) Cause disease in roots
- B) Fix atmospheric nitrogen

- C) Decompose dead matter
- D) Produce antibiotics

✓Answer: B) Fix atmospheric nitrogen

23. Dengue fever is transmitted by:

- A) Anopheles mosquito
- B) Aedes mosquito
- C) Sandfly
- D) Housefly

✓Answer: B) Aedes mosquito

24. Athlete's foot is caused by a:

- A) Virus
- B) Bacterium
- C) Fungus
- D) Protozoan

✓Answer: C) Fungus

25. A bacteriophage is a virus that infects:

- A) Plants
- B) Animals
- C) Bacteria
- D) Fungi

✓Answer: C) Bacteria

26. Which of the following reproduces by binary fission?

- A) Virus
- B) Yeast
- C) Bacteria
- D) Plasmodium

✓Answer: C) Bacteria

27. The first vaccine was developed against:

- A) Polio
- B) Smallpox
- C) Cholera
- D) Malaria

✓Answer: B) Smallpox

28. Streptomycin is an antibiotic effective against:

- A) Fungi
- B) Viruses
- C) Gram-negative bacteria
- D) Protozoa

✓Answer: C) Gram-negative bacteria

29. The term "saprophyte" refers to an organism that:

- A) Produces its own food
- B) Feeds on dead organic matter
- C) Causes disease
- D) Lives on a host

✓Answer: B) Feeds on dead organic matter

30. Mushrooms belong to the kingdom:

- A) Plantae
- B) Animalia
- C) Fungi
- D) Protista

✓Answer: C) Fungi

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