

HIGHER SECONDARY FIRST YEAR

MICROBIOLOGY

MODEL QUESTION PAPER

MAX MARKS: 70

TIME : 2 ½ HRS

Answer all the questions.

15 x 1 = 15

Choose the correct answer.

PART-I

1. ----- is an acidic dye
(a) Methylene Blue (b) Eosin
(c) Crystal Violet (d) Malachite Green
(d)
2. Sterilization by moist heat requires a temperature of
(a) 121°C for 15-30mts (b) 110°C for 1 hour
(c) 150°C for 20 mts (d) 175°for 15-30 mts
3. Chamberland filters are made fro
(a) Asbestos pads (b) Unglazed porcelain
(c) Fibre glass (d) Sintered glass
4. Yeast grows on
(a) Nutrient agar (b) Trypticase Soya agar
(c) Sabouraud dextrose agar (d) Selenite broth
5. An example for supportive media
(a) Blood agar (b) Soya agar
(c) Trypticase soy agar (d) Enrichment agar
6. The element that is found in traces in the atmospheric air
(a) Nitrogen (b) Oxygen
(c) Xenon (d) Ozone
7. The PH level of standard drinking water
(a) 6.7- 7.9 (b) 7.0
(c) 5.3 – 5.9 (d) 10.0
8. Allicin is obtained from
(a) Cinanmon (b) Garlic
(c) Cloves (d) Mustard
9. Caesin's percentage in milk is
(a) 80 – 85% (b) 60 – 70%
(c) 30 – 40% (d) 90 - 95%

10. Organism causing syphilis is
(a) Treponema Palladium (b) Neisseria gonorrhoeae
(c) Lymphogranuloma Venereum (d) Candida albicans
11. ----- is a Gas gangrene organisms
(a) Clostridium tetani (b) Staphylococcus aureus
(b) Pseudomonas aeruginosa (d) Streptococcus pyogenes
12. ----- is an antimalarial drug
(a) Chloroquine (b)Pencillin
(c) Ampicillin (d)Streptomycin
13. The genetic material of Polio virus is
(a) Double standard RNA (b)Single standard RNA
(c) Double standard DNA (d)Both DNA and RNA
14. Largest lymphoid organ is
(a) Thyroid (b)Thymus
(c) Spleen (d)Lymph node
15. ZDNA was discovered by
(a) Watson and Crick (b) Alexander Rich
(b) Meselson and stahl (d) Wilkins

PART

6X2=12

ANSWER ANY SIX QUESTIONS. Q.NO.16 IS COMPULSORY.

16. What is Pasteurization?
17. Define working distance of microscope.
18. What is Rhizosphere?
19. What are photolithotrophs?
20. What is Pili?
21. Name some normal flora of the respiratory tract
22. What are the laboratory diagnosis of malaria
23. State the properties and functions of Igm.
24. Give the exogenous factors responsible for Wound Infections.

PART - III

6X3=18

ANSWER ANY SIX QUESTIONS. Q.NO.32 IS COMPULSORY.

25. Describe food borne diseases.
26. Describe the virulence factors of bacteria.
27. Draw the trophozoites of Entamoeba histolytica and label
28. What is microfilaria?
29. Name the vaccines available for polio Virus.
30. What is Saprozoonoses?
31. Describe the functions of spleen.
32. What is innate immunity? Give example.
33. Classify piedra and name the organisms

PART - IV

5X5=25

IV. ANSWER ALL THE QUESTIONS.

34. Explain Koch's Postulates.

(OR)

Factors influencing sterilization by heat.

35. Compare plant and bacterial photosynthesis.

(OR)

Outline the Classification of algae.

36. Explain harmful microbial interactions

(OR)

Describe the life cycle of malarial Parasite

37. Describe the replication of Polio Virus

(OR)

State the properties of Rabies Virus.

38. Tabulate the enzymes involved in DNA replication and add a note on its functions.

(OR)

Describe the alternative forms of DNA.
