Higher Secondary Second Year

Micro Biology

Model Question Paper – 2

Time : 2.30Hrs Marks : 70

Answer all the questions 15 x 1 =15

Choose the most suitable answer from the given four alternatives and write the option code and corresponding answer

1 Which of the following is quaternary ammonium salt-310

a. Copper Sulphate b. Silver nitrate

c. Cetrimide d. Ferricchloride

2 Write the correct pain

a. Dark field microscope a) UV

b. Cone of light b) Electron microscope

c. Fluorescent microscope c) Phase contrast microscope

d. Knoll and Ruska d) Treponema pallidum

a) a-b b-c c-d d-a

b) a-d b-c c-a d-b

c) a-d b-c c-b d-a

d) a-a b-d c-b d-c

3 Primary treatment of sewage removes which percent of BoD

a. 5-10 b. 15-20 c. 20-25 d. 30-40

4 Bacillus thuringiensis is a

a. Biofertilizer b. Biopesticide

c. Biosurfactant d. All the above

5 Necrotizing fasitis is caused by which of the following

a.Staph aureus b.Str pyogeres

c. C.diphteriae d. Clostridium tetani

6 Which statement is correct

a. Clostridium botulinum is an aerobic gram positive

b.Shigella are gram negative non motile bacilli

c. Vibrios are gram positive curved rods

d.Chlamydiae are gram positive bacteria

7 Azone of complete clearing of blood around the colonies is called

a.Alpha haemolysis b. Bet haemolysis

c. Gamma haemolysis d. All the above

8 Droplet nucler are significant in the transmission of the disease of

a. Digestive System b.Nervous System

c. Reproductive System d.Respiratory System

9 Genital herper is caused by

a. HIV-1 b. HSV-1

c. HSV-2 d. HIV-2

10 The head of tape worm is otherwise called

a. Scolex b. Proglottid

c. Brain d. All the above

11 Infection in pregnant animals leads to abortion due to

a. Hearper Viruses b. Brucella

c. Borrelia d. All the above

12 For labelling antibody for immunofluoresence test which of the following used

a. Fluorescein b. Fluorescene I sothiocyanate

c. Fluoresence carbamide d. All the above

13 Haemolytic disease of the new born is

a.Rheumatic fever b.Potential fatal disease

c. Thrombocytopenic purpura d.Hemolytic anemia

14 How many amino acid present in protein

a.15 aminoacid b.20 aminoacid

c.30 aminoacid d. 10 aminoacid

15 The restriction enzymes was discovered by

a.Wener Arber and Hamilton smith

b. Herbert Boyer

c. Edward L.tantum

d. All the above

Section – II

Answer any six questions 6 x 2 = 12

Question No 16 is compulsory

16 Write the causative agent of pebrin disease of silkworm and causative agent of ‘wool sorters disease

17 What is meant by composting and write the methods of composting

18 What are the four species of genus shigella? On what basis they are divided

19 Draw a ultra structure of promastigole and label the parts

20 Define fluorescence

21 State the siginificane of Transduction

22 List the vectors of lyme disease.

23 What is Glomerulonephritis

24 What are the tetanus spores found

Section – III

Answer any six questions. 6 x 3 = 18

Qn. No. 32 is compulsory

25 Write about Enzyme regulation by feedback inhibition.

26 Write the uses of Biogas.

27 What are the types of HSV

28 Draw a flow chart of multiplication of chlamydia

29 Compare the characteristics of live and killed vaccines

30 What are the 4 types of alternation which can nucleotide sequence of DNA.

31 Describe vibrios

32 Where is candida albicans present in the body? When does it cause an infection

33 List out important organic acid

Section – IV

Answer the following questions 5 x 5 = 25

34 Explain TCA cycle

(Or)

List the toxins and enzymes produced by s.aureus and explain their action

35 Describe the industrial process involved in wine production

(Or)

Write the difference between Eumycelis and Acrinomycele's

36 Write about a short notes on scanning Electron microscope

(Or)

Describe the laboratory diagnosis of mycoplasma

37 Write short notes on Hepatitis A Virus

(Or)

Describe the characteristics of BCG vaccine

38 Draw a flow chart of basic procedure for tissue culture and sub culture maintenance

(Or)

Describe the structure of light-chain of immunoglobulin molecule.