

Higher Secondary Second Year

Micro Biology

Model Question Paper – 1

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 The system of antiseptic surgery was developed by
 - a. John Tyndall
 - b. Joseph Listen
 - c. Louispasteur
 - d. Robert Koch
- 2 Fluorescent microscope is used in medical microbiology to observe pathogens such as
 - a. Treponema pallidum
 - b. Mycobacterium tuberculosis
 - c. Staphylo coccus aureus
 - d. E coil
- 3 Air-borne infections are transmitted mainly by
 - a. areosols from person to person
 - b. inhaling spores or hyphae fragment from oil
 - c. drinking contaminated water
 - d. objects such as handkerchiefs that are contained with respiratory secretions
- 4 Which of the following biofertilizers is most suitable for paddy crop!
 - a. Rhizobium
 - b. Acetobacten
 - c. Azoto bacterial
 - d. Azolla
- 5 Hyaluronidare is an enzyme which acts on
 - a. cell surface
 - b.inter cellular cement substance
 - c. cyteplasm
 - d. nucleic acid
- 6 Rice – walis stool is the symptom of
 - a. amuebic dysentery
 - b.bacillary dysentery
 - c. cholera
 - d. Tetanus
- 7 _____ are cell wals less bacteria
 - a.shigella
 - b. clostridium
 - c. mycoplasma
 - d.vibrio
- 8 L.donovani was first discovered in the year
 - a.1914
 - b.1903
 - c.1920
 - d.1803
- 9 Which bacteria appear cluslers

- a. staphylococci
b. streptococci
c. both a and b
d. none of these
- 10 candida stains
a. Gram positive
b. Gram negative
c. Gram variable
d. Acid Fast
- 11 Brucellosis is a _____ disease
a. Sexual transmitted
b. Zoonotic
c. Central nervous disease
d. Gastrointestinal disease
- 12 Thymus is located in which parts of the body
a. Respiratory tract
b. Thoracic cavity
c. abdomen
d. Intestinal tract
- 13 Which antibody is raised during allergic responses
a. IgA
b. IgM
c. IgG
d. IgE
- 14 64 codons are called as _____
a. Stop codon
b. sense codons
c. genetic code
d. all the above
- 15 Which of the following is involved in pyrimidine dimer repair
a. mismatch repair
b. Photo reactivation
c. Excision repair
d. All the above

Section – II

Answer any six questions

6 x 2 = 12

Question No 16 is compulsory

- 16 Define fermentation. Give example.
- 17 What is meant by Aerosol?
- 18 Define partial clearing hemolysis.
- 19 Define cysticercosis
- 20 Write about the Delta Agent
- 21 Draw the structure of bilobed lymphatic organ and label the parts
- 22 What are the clinical manifestations of pharyngeal diphtheria
- 23 List out the fluorochromes used in immunoglobulins
- 24 Write any four important products produced from animal cell cultures

Section – III

Answer any six questions.

6 x 3 = 18

No. 32 is compulsory

- 25 Write about a short note on Eutrophication
- 26 Define Biofertilizer with example and write their Role.
- 27 What are the infections due to salmonella
- 28 Chaga's disease is which type of disease. Write the causative agent and their Epidemiology
- 29 Write the raw materials for penicillin production
- 30 What is antiseptic agent? Give example.
- 31 What are the mode of transmission of HIV
- 32 Write about the short notes on circular DNA molecule with example.
- 33 Explain the structure of Ti plasmid

Section – IV

Answer the following questions

5 x 5 = 25

- 34 Define Glycolysis? Explain Embden-Meyerh pathway

(Or)

Describe the characteristic of curved shape bacteria and write the symptoms of cholerae

- 35 Write the composition of Biogas? Describe the production of Biogas.

(Or)

Explain the life cycle of Liver Flukes

- 36 Write a short notes on TEM

(Or)

Describe the laboratory diagnosis of lyme disease

- 37 Write the difference between immediate hypersensitivity and delayed hypersensitivity

(Or)

Describe the conjugation bacteria and write the significance.

- 38 Prevention and control measurement of c. tatani

(Or)

Explain the development of T cell.