

(6 pages)

Reg. No. :

Code No. : 7152

Sub. Code : PZOM 21

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2018.

Second Semester

Zoology

MICROBIOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Who discovered vaccine against rabies?
(a) Albert Neisser (b) Weigert
(c) Louis pasteur (d) Robert koch
2. ——— is called as filamentous bacteria.
(a) Actinonyces (b) Mycoplasm
(c) Spirochetes (d) Vibrios

3. Organism that cannot grow in artificial culture medium are known as ———.
(a) Obligate bacteria (b) Obligate parasites
(c) Obligate fungai (d) Mucobacterium
4. The organism which obtain their energy from chemicals are designated as ———.
(a) Prototrophs (b) Chemotrophs
(c) Organotrophs (d) Autotrophs
5. ——— is the decaying fat, causing the smell or taste of stab.
(a) Fermentation (b) Raneidity
(c) Autolysis (d) Purification
6. Bread is spoiled by ——— Microorganism.
(a) E.coli (b) Clostridium
(c) Rhizopus (d) Cactobacillus
7. Rabies is treated with ——— vaccine.
(a) HDCS vaccine (b) DPT vaccine
(c) Isonoid (d) Streptomycin

Page 2

Code No. : 7152



8. Gonorrhea is treated with ———— drug.
(a) Sabin (b) Semple
(c) Sulphonamide (d) Common antibiotics
9. The utilization of elemental carbon by microbes during bio-geochemical cycle is called
(a) Dissimilation (b) Immobilization
(c) Mineralization (d) Neutralization
10. The flocculating agent added to the waste water treatment is ————.
(a) Aluminium sulphate
(b) Potassium sulphate
(c) Copper sulphate
(d) Nickel

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Classify algae with suitable example.
Or
(b) Explain the Whittaker's five kingdom concepts.

Page 3 Code No. : 7152

12. (a) Give a short note on kinetics of bacterial growth.

Or

- (b) Describe the spread and streak plate techniques with a suitable diagram.

13. (a) Write a short note on food preservation.

Or

- (b) What is food spoilage? and add note on Spoilage of meat.

14. (a) Give an account on Nitrogen cycle.

Or

- (b) Write short note on Mosquito borne diseases.

15. (a) Write a note on formation of methane.

Or

- (b) Comment on organic compost.

Page 4 C



PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write the classification of virus with the suitable illustrations.

Or

- (b) Write an Outline classification of bacteria with a suitable diagram.

17. (a) Write an essay on measurement of growth and enumeration of bacterial cells.

Or

- (b) Explain the batch and synchronous culture of microorganisms.

18. (a) Explain the steps involved in the industrial production of amino acids.

Or

- (b) Describe the dairy product and fermentation technology.

19. (a) Explain the various airborne disease due to virus and mention the indicator organism.

Or

- (b) Write an essay on sexually transmitted diseases and their pathogenecity.

20. (a) Write brief account on treatment of industrial effluent.

Or

- (b) Give an account on microbial herbicides.

