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Name.....

Reg. No.....

SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2020

Biotechnology

BTY 2B 02—GENERAL MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

Answer any two questions in about 1,500 words.

Each question carries 10 marks.

1. Give a brief note on morphological features of fungi.
2. Write an essay on various sterilization methods.
3. Describe various nutrient uptake methods.
4. Explain anaerobic respirations of bacteria.

(2 × 10 = 20 marks)

Section B

Answer any seven questions.

Each question carries 5 marks.

5. List out the contributions of Louis Pasteur.
6. How do you differentiate prokaryotes from eukaryotes ? Explain.
7. Illustrate gram positive bacterial cell wall.
8. Describe dry heat sterilization.
9. Explain properties of antiseptics and disinfectants.
10. How do you sterilize glasswares ? Explain.
11. Explain group translocation with example.
12. How do you measure the growth of bacteria using turbidimetry method ?
13. Explain pentose Phosphate pathway.
14. Explain various components used in electron transport chain.
15. Explain photophosphorylation.

Turn over

16. How do you diagnose AIDS virus ? Explain.
17. Is WIDAL test used for the diagnosis of typhoid/ salmonella infection ? Explain.
18. Mention clinical types of dermatomycoses.

(7 × 5 = 35 marks)

Section C

Answer all questions in about 50 words.

Each question carries 3 marks.

19. Mention the role of Joseph lister in the field of microbiology.
20. What are the components of PDA medium ? Add its importance.
21. What is lysogenic conversion ?
22. Mention causative agents of dermatomycoses.
23. Explain ring worm of nail.

(5 × 3 = 15 marks)

Section D

Answer all questions in about one or two sentences.

Each question carries 2 marks.

24. Explain magic bullet.
25. Why bacteria needs carbon? Explain.
26. Define synchronous growth.
27. Explain oxidative phosphorylation.
28. Mention different anaerobic respiration.

(5 × 2 = 10 marks)