

0108200



K19U 2480

Reg. No. : .....

Name : .....

III Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.)

Examination, November - 2019

(2014 Admn. Onwards)

GENERAL COURSE IN MICROBIOLOGY

3A 11 MCB : BIOCHEMISTRY FOR MICROBIOLOGY

Time : 3 Hours

Max. Marks : 40

### SECTION-A

Answer **All** the Four questions.

(4×1=4)

1. Sulphur containing amino acids are \_\_\_\_\_ and \_\_\_\_\_
2. Peptidoglycan is made up of repeating units of \_\_\_\_\_ and \_\_\_\_\_
3. pH of blood is \_\_\_\_\_
4. The major bond that stabilizes the secondary structure of proteins is \_\_\_\_\_

### SECTION-B

Answer very briefly on any **Seven** questions out of ten.

(7×2=14)

5. Amino acids are biological buffers.
6. Redox potential of compounds.
7. Non reducing sugars with an example.
8. Peptide bonds.
9. Allosteric inhibition
10. Triglycerides
11. Essential amino acids
12.  $\alpha$ 1-4 glycosidic linkages.
13. Henderson \_ Hasselbalch equation.
14. Detoxification

P.T.O.

**SECTION-C**

Answer any **Four** questions out of **Six** briefly.

**(4×3=12)**

15. Disaccharides.
16. Terpenoids and their biological functions.
17. Nucleotides.
18. Structure of enzymes.
19. Non covalent interactions in stabilizing protein structure.
20. Effect of drugs on vital organs.

**SECTION-D**

Answer any **Two** questions out of **Four**

**(2×5=10)**

21. Describe the level of organization of proteins.
  22. Write an account on the mechanism of enzyme action and factors influencing rate of reaction.
  23. Explain  $\beta$ -oxidation of fatty acids
  24. Explain EMP pathway.
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