

CODE: 3209 (CBCS)

PITHAPUR RAJAH'S GOVERNMENT COLLEGE (AUTONOMOUS), KAKINADA

III-SEMESTER END EXAMINATIONS-OCTOBER/NOVEMBER-2018

II YR B.Sc., SUBJECT/ PAPER: MICROBIOLOGY

DATE: 30.10.2018 (TUESDAY): TIME: 09.00 AM

Marks: 70

Reg. No.

Duration: 3 Hrs

PART-A

5×2=10M

Answer **ALL** of the questions.

1. Growth factors
2. Methylophs
3. Cofactors
4. Alleles
5. Inversions

PART-B

5×4=20M

Answer any **Five** of the following.

- | | |
|-----------------------|-------------------------|
| 6. Autotrophs | 10. SOS repair |
| 7. Synchronous growth | 11. Transposons |
| 8. Coenzymes | 12. Frame shifts |
| 9. Lock and Key model | 13. Tandem duplications |

PART-C

Answer any **FOUR** of the following questions, Draw diagrams whenever necessary. **4×10=40M**

14. (a) Explain the uptake of nutrients by bacterial cells
(or)
(b) Give an account on measurement of microbial growth
15. (a) (a) Give an account on the classification of Enzymes.
(or)
(b) Briefly describe various types of inhibition of Enzyme activity.
16. (a) write about DNA and RNA as genetic material.
(or)
(b) Discuss the mechanism of Semi conservative replication of DNA.
17. Write about various physical and chemical mutagenic agents?
(or)
(b) Write briefly about Gene transfer mechanisms in bacteria.