

FSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2017
(First Semester)

Branch - MICROBIOLOGY

FUNDAMENTALS OF MICROBIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(1 0 x 2 = 20)

Write a note on the following :

- 1 Germ theory of diseases.
- 2 Apertization
- 3 Pili.
- 4 Diamino pimelic acid.
- 5 BGA (Blue Green Algae).
- 6 Akinates.
- 7 Yeasts.
- 8 Binary Fission.
- 9 . Pellicle. 4
- 10 Phagocytosis.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

U a List out Koch's postulates.

OR

b Write a note on Fransisco Reddi's experiment on liogenesis.

12 a Write a note on capsule.

OR

b Give notes on EPS layer in gram negative cell wall.

13 a Write a brief note on the sexual reproduction of algae.

OR

b Write a note on the ultra structure of algae.

14 a Write a note on the characteristics of Basidiomycetes.

OR

b Write a **note** on asexual reproduction in fungi.

15 a Brief on the distribution of protozoa..

OR

b Explain conjugation in Paramecium caudatum.

SECTION - C (36 Marks)'

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Write a detailed account on Pasteur's contradiction to the theory' of spontaneous generation.
- 17 Describe the ultra structure of Gram positive prokaryotic cell wall.
- 18 Discuss on the significance of algae as food.
- 19 Describe the life cycle of Rhizopus stolonifer.
- 20 Elaborate on the asexual reproduction of protozoan.