

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION DECEMBER 2018  
(First Semester)

Branch - BOTANY

**MICROBIOLOGY**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Who first developed vaccine for rabies in man?  
(i) Robert Koch (ii) Joseph Lister  
(iii) Louis Pasteur (iv) Stanely

- 2 The capsid of virus is made up of \_\_\_\_\_.  
(i) monomers (ii) capsomers  
(iii) lipoproteins (iv) glycoproteins

The bacterial cell wall is made up of \_\_\_\_\_.  
(i) cellulose and hemicellulose  
(ii) chitin and pectin  
(iii) acetyl glucosamine and acetyl muramic acid  
(iv) agarose and agaropectin

Mesosomes contain \_\_\_\_\_.  
(i) respiratory enzymes (ii) photosynthetic pigments  
(iii) growth hormones (iv) reserve food materials

Which one of the following is edible fungi?  
(i) Albugo (ii) Aspergillus  
(iii) Colletotrichum (iv) Agaricus

Penicillin was discovered by \_\_\_\_\_.  
(i) Alexander Fleming (ii) Louis Pasteur  
(iii) Iwanosky (iv) Robertson

The disintegration of leaf tissues are called \_\_\_\_\_.  
(i) chlorosis (ii) necrosis  
(iii) lesions (iv) none of these

\_\_\_\_\_ serve as pollution indicators.  
(i) Bacteriophage (ii) Lichens  
(iii) Cyanobacteria (iv) Diatoms

FSSAI is a \_\_\_\_\_ process.  
(i) agromark (ii) silkmark  
(iii) food safety (iv) food quantity

- 10 In food industry \_\_\_\_\_ is used as food preservative.  
(i) sodium carbonate (ii) sodium sulphate  
(iii) sodium acetate (iv) sodium benzoate

**SECTION - B (35 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

- 12 a Illustrate the bacterial growth curve.  
OR  
b Discuss the types of flagella in bacteria.
- 13 a Analyze the characteristic features of fungi.  
OR  
b Explain the method of asexual reproduction in *Aspergillus*.
- 14 a Summarize the disease cycle of tikka disease in groundnut.  
OR  
b Describe the thallus organization of lichens.
- 15 a What are the factors that control the food spoilage?  
OR  
b Write an account on food borne diseases.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- 16 Elucidate the structure and multiplication of TMV.
- 17 How will you classify bacteria based on nutrition?
- 18 Highlight the classification of fungi by Alexopoulos.
- 19 Enumerate the casual organism, symptoms, disease cycle and control measures of rust in wheat.
- 20 Discuss the food preservation techniques.

**Z-Z-Z**

**END**