

Exam Date &amp; Time: 28-Sep-2020 (10:00 AM - 01:45 PM)

**PSG COLLEGE OF ARTS AND SCIENCE**

&lt; Note: Writing 3hrs: Checking &amp; Inserting Image : 30mins

**BSc DEGREE EXAMINATION MAY 2020  
(Sixth Semester)****Branch - BIOCHEMISTRY****ENVIRONMENTAL BIOCHEMISTRY AND CIVICS [14BCV25]****Marks: 75****Duration: 210 mins.****SECTION A****Answer all the questions.**

- 1) Comment on PAN. (2)
- 2) What is Eutrophication? (2)
- 3) What is Biodegradation? (2)
- 4) List out any two important pesticide used in agriculture. (2)
- 5) What is Bioplastics? (2)
- 6) Comment on incineration? (2)
- 7) What are teratogens? (2)
- 8) Name any two effects of chemical carcinogens. (2)
- 9) Comment on endotoxin. (2)
- 10) What is Biofertilizer? (2)

**SECTION B****Answer all the questions.**

- 11) Write a note on air-borne pathogens and their control. (5)
  - a) (5)
- [OR]
- b) Give short note on solid waste management. (5)
- 12) Discuss about occurrence of pesticides in food. (5)

- a)  
[OR] Explain the molecular tools used in pesticide degradation. (5)  
b)
- 13) Describe the toxic effects of Mercury. (5)
- a)  
[OR] Discuss the methods involved in disposal of industrial waste. (5)  
b)
- 14) Explain the method and significance of Ames test. (5)
- a)  
[OR] List out the effects of teratogenic compounds. (5)  
b)
- 15) Write a note on Bt cotton. (5)
- a)  
[OR] Give short note on nif genes. (5)  
b)

### SECTION C

**Answer 3 out of 5 questions.**

- 16) Discuss the sources, effects and prevention of water pollution. (10)
- 17) Explain the structure and mode of action of DDT & 2,4-D. (10)
- 18) What is Biomining? Write the steps involved in microbial mining process. (10)
- 19) Describe the mode of action of any two chemical mutagens. (10)
- 20) Give in detail account on nitrogen fixing microorganisms. (10)

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