

A (Printed Pages 3)  
(20620) Roll No. ....  
B.Sc. (Bio-Tech.)-III Yr.

**NS-3477(CV)**

**B.Sc. (Bio-Technology) III<sup>rd</sup> Year**

**Examination, June-2020**

**ENVIRONMENTAL BIO-TECHNOLOGY**

**(B-305)**

**(B.Sc. Biotech.)**

*Time : Two Hours ] [Maximum Marks : 75*

**Note :** Attempt any **four** questions. **All** questions carry equal marks.

1. What is phytoremediation? Discuss in detail on the advantages of bioremediation and phytoremediation.
2. What are transgenic organisms? Discuss their environmental impact.
3. Describe various processes through which toxic chemicals can be converted into non-toxic forms using micro-organisms.

**P.T.O.**

4. Write detailed notes on:
  - (a) Biopesticide
  - (b) Conversion of sugars to ethanol.
5. What do you understand by SCP? Describe briefly the production of SCP. Also discuss the advantages of producing SCP over traditional methods of producing proteins for food and feed.
6. Write the short notes on the following:
  - (a) Biogas
  - (b) Gasohol experiments
  - (c) Biomineralization
7. Compare the renewable and non-renewable sources of energy. Discuss the environmental impact of burning of coal.
8. What are modern fuels? Discuss in detail their environmental impact.

**NS-3477(CV)/2**

9. Write short note on the following:

(a) Methanogenic bacteria

(b) Biodiesel

(c) Treatment of industrial effluents

10. What are biofertilizers? Discuss different available of biofertilizers used as a supplement to chemical fertilizers.