

(20518)

Roll No.

B. Sc.(Biotech.)-III Year

NS-3477

B. Sc. Biotechnology Examination, May 2018

Environmental Biotechnology

(B-305)

(New)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Answer all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 50 words. 3×5=15

1. ✓ What do you mean by conventional sources of energy?
2. ✓ Write a note on bioaccumulation?
3. ✓ What are biofertilizers ? Discuss their role in Agriculture.

4. ✓ Discuss the cause and effect of deforestation.
5. ✓ Discuss fossil fuels as natural resources. How can they be conserved?

Section-B

(Short Answer Questions)

Answer any *three* questions. Each question carries 10 marks. 10×3=30

1. ✓ Give detailed account on phytoremediation.
2. ✓ What do you mean by renewable energy sources ? Describe the main reasons for water scarcity in India.
3. Write notes on the following :
 - (a) Biogas generation
 - (b) Biomineralization.
4. Give an account of non-renewable sources of energy.
5. ✓ Write notes on the following :
 - (a) Ex-situ bioremediation
 - (b) Municipal wastes treatment.

Section-C

(Detailed Answer Questions)

Answer any *two* questions. Each question carries
15 marks. 15×2=30

1. ✓ What are natural resources ? Discuss the renewable energy resources in detail.
2. What are modern fuels ? Discuss the production of ethanol in detail.
3. Give a detailed account of bioremediation of polycyclic aromatic hydrocarbon.
4. ✓ Give a detailed account on the following :
 - (a) Biofertilizers
 - (b) Transgenic organism and their impact on environment.