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PG2S-056-B-22
M.Sc. II Semester (CBCS Scheme) Degree Examination
ENVIRONMENTAL SCIENCE
Natural Resources and Management
Paper : OET 2.1

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Answer *ALL* the sections.
2. Section - A is *Compulsory*.

SECTION - A

Answer **ALL** the following.

(10×2=20)

1. a) Social forestry.
b) River conservation
c) Soil erosion.
d) Nutrient deficiencies
e) Wind energy.
f) Biomass
g) Biofuels
h) Wave energy.
i) Geothermal energy.
j) Weed control

SECTION - B

Answer any **SIX** of the following.

(6×5=30)

2. Explain the natural resource conservation programme in India.
3. Describe the concept of water resource management.
4. Write a note on rain water harvesting.
5. Explain the land use changes in India.

6. Describe the concept and scope wasteland development.
7. Give an account on nuclear fission and fusion.
8. Explain the biogas production from agricultural waste.
9. Write a note on objectives of biological control.

SECTION - C

Answer any THREE of the Following.

(3×10=30)

10. Explain the approaches of forest resource conservation in Karnataka.
 11. Describe the role of woman's in natural resource management.
 12. Explain the sources and types of conventional energy resources.
 13. Give a detailed account on ocean ore and recycling of resources.
 14. Explain the physical and chemical methods of weed control and their merits and demerits.
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PG2S-055-B-22
M.Sc. II Semester Degree Examination
ENVIRONMENTAL SCIENCE
Energy and Green Technologies
(CBCS Scheme- New Syllabus)
Paper : SCT- 2.2

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Answer **ALL** sections.
2. Section - A is compulsory.

SECTION - A

Answer All the following.

(10×2 = 20)

1. a) Natural gas.
b) Bioenergy Sources.
c) Fermentation.
d) UNFCC.
e) Bioplastics.
f) Nanoparticles.
g) Biofilm.
h) Sustainable Development.
i) Biocatalysts.
j) Nuclear accidents.

SECTION - B

Answer any SIX of the following.

(6×5=30)

2. Write a short note on energy resources.
3. Briefly explain the geothermal energy.
4. Explain briefly on biogas production.
5. Write a note on composition of wastes.

6. What is bio-composting? Explain the process.
7. Write a note on bio oils and its uses.
8. Explain green economy and concepts.
9. What is Phyto-Remediation? Explain its importance.

SECTION - C

Answer any Three of the Following.

(3×10=30)

10. Discuss the advantages of glacier power plants.
 11. Highlight the International conventions on energy and sustainability.
 12. Discuss bio waste as renewable sources of energy.
 13. Give a detailed account on non-conventional energy resources in India.
 14. Give a comparative account on biofuels and conventional fuels.
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