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| Name: |  |
| Enrolment No: | |

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

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| Course Name : Environmental Studies | Semester : 1 |
| Programme Name : B. Sc. (Physics, Chemistry, Maths) | Time : 03 Hrs |
| Course Code : HSFS 1003 | Max. Marks : 100 |
| | Nos. of page(s) :3 |

Instructions: Please attempt all questions from Section “A”, Section “B” and Section “C”

SECTION A – 20 Marks

1. Each Question will carry 5 Marks

2. Instruction: Complete the statement / Select the correct answer

| SN | Questions | MM | CO |
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| Q.1. | <p>Fill in the Blanks :</p> <p>i) The area which is extremely rich in biodiversity, harbor great diversity of endemic species and at the same time they have been significantly degraded by human activities is known as ----- biodiversity.</p> <p>ii) ----- involves raising of trees for firewood ,fodder, agricultural implements and fruits on public, roads, rails and common land for the benefits of rural community. It reduces pressure on the existing forests.</p> <p>iii) The conversion of ammonia to nitrate is known as -----.</p> <p>iv) The study which is carried out in order to take environmental clearance from Ministry of Environment is known as -----.</p> | 4 | CO1 |
| Q.2. | <p>Write T & F for the following</p> <p>i) China has the largest number multiple of small dam; 60,000 dams generate 13, 250 (30%) megawatts of China’s electricity.</p> <p>ii) The soil formed by the deposition of silt brought by rivers is called red soil.</p> <p>iii) The Electrostatic Precipitator are widely used in cement, power and metallurgical industries because of their capabilities to treat large gas flows, under high temperature and corrosive atmosphere and remove submicron particles.</p> <p>iv) In India EIA was introduced as an administrative measures in 1998-99, initially for river valley projects and extending later to industrial projects.</p> | 4 | CO2 |

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| Q.2 | <p>Describe various units of physical, chemical, biological treatment of Effluent Treatment Plant with the help of well labeled diagram to treat waste water generated from industries.</p> <p style="text-align: center;"><u>Or</u></p> <p>What do you mean by TOR (Terms of Reference). Evaluate all the environmental components which are considered under TOR (Term of Reference) for Thermal Power Plant.</p> | 20 | CO4 |
| | | 20 | CO4 |