


| Name: | |  | |
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| Enrolment No: | | | |
| UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022 | | | |
| Course/ Program: B.Tech (FSE) | | Semester : VII | |
| Course Code: HSFS4007 | | Time : 03 hrs. | |
| Subject: Fundamental of Sustainable Development | | Max. Marks: 100 | |
| SECTION A (5Qx4M=20Marks) | | | |
| S. No. | | Marks | CO |
| Q 1 | Enumerate Product carbon footprint and corporate carbon footprint. | 4 | CO1 |
| Q 2 | Explain IPAT equation & its application. | 4 | CO3 |
| Q 3 | What are the key elements ISO14064 & ISO14067 also highlight their importance in sustainability. | 4 | CO1 |
| Q 4 | Enlist the various organization responsible for sustainability reporting. | 4 | CO2 |
| Q 5 | Define water footprint and its type; enumerate the importance of water footprint in sustainable development. | 4 | CO3 |
| SECTION B (4Qx10M= 40 Marks) | | | |
| Q 6 | Explain different phases for sustainability reporting with neat diagram. | 10 | CO3 |
| Q 7 | Enumerate BRR and its application with role of SEBI in terms of sustainable development | 10 | CO4 |
| Q 8 | What are the key elements ISO14064 & ISO14067 and differentiate ISO14064 & ISO14067. | 10 | CO4 |
| Q 9 | The carrying capacity of a biological species in an environment is the maximum population size of the species that the environment can sustain indefinitely, given the food, habitat, water, and other necessities available in the environment and many factors effect it. List down the factors which effect carrying capacity and also differentiate between Inter and Intra generational equity and justice? | 10 | CO3 |
| SECTION-C (2Qx20M=40 Marks) | | | |
| Q 10 | The CDM Executive Board was established as the UNFCCC secretariat to oversee the CDM process. In order to be registered as a CDM project activity, project proponents need to go through project cycle. illustrate what are the steps involve in project life cycle. | 20 | CO5 |

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| Q 11 | <p>Ecolabelling is increasing awareness among the consumers towards reducing environmental impact, product categorization and the development of standards for products. Discuss objective, criteria and mechanism of Ecolabelling scheme.</p> <p style="text-align: center;">OR</p> <p>Describe the following in detail</p> <ul style="list-style-type: none">a) Comprehensive efficiencyb) Due diligence auditc) Cost component of CBAd) Green House effect | 20 | CO5 |
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