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| Name: Enrolment No: |  UPES UNIVERSITY WITH A PURPOSE |
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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, May 2021

Course: Safety Health and Environment Management
Program: B. Tech. GSE
Course Code: HSFS 4001

Semester: VII
Time 03 hrs.
Max. Marks: 100

SECTION A

Each Question carries 5 Marks

| S. No. | Question | CO |
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| Q 1 | Define: a. Hazard b. Risk c. Accident d. Safety e. Incidents | CO1 |
| Q2 | Distinguish between Class I, Class II and Class III Liquids. | CO1 |
| Q3 | Write short notes on: a. Confined space work permit b. Tool Box Talk | CO2 |
| Q4 | Describe primary reasons of industrial accidents and their interrelationship. | CO2 |
| Q5 | Brief the first aid requires for injuries due to electricity. | CO2 |
| Q6 | Explain various types of fire. | CO1 |

SECTION B

Each Question carries 10 Marks

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| Q 7 | Discuss various types of industrial accidents. Justify how workplace environment is important for safe industrial works? List all the factors associated with industrial accidents? | CO4 |
| Q 8 | Brief the characteristics of Fixed-position layout. Describe advantages and limitations of fixed-position layout? Distinguish between product and process layout with suitable examples and diagram. Which layout is safer and how? Discuss the advantages and disadvantages of that particular layout. | CO3 |
| Q 9 | What are the characteristics of a well-designed materials handling system? List all general mistakes a person can do during manual material handling and leads to accidents. | CO4 |
| Q 10 | Describe workplace climates and brief minimization strategies of workplace climate related risks. | CO3 |
| Q 11 | Discuss various benefits of an ERGONOMICS PROGRAM. | CO3 |

Section C

Each Question carries 20 Marks.

Q12

Illustrate all the safety requirements for storage of flammable and combustible liquid in indoor as well as in outdoor.

CO5