


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Course: B.Tech GIE Program: Safety, Health & Environment Engineering Time: 03hrs.		Semester: VIII Course Code: HSFS4016 Max. Marks: 100	
SECTION A (5Qx4M=20Marks)			
Q.1	Briefly discuss various requirement of Boiler Act.	4	CO1
Q.2	Define challenges of work permit systems?	4	CO2
Q.3	List out various requirements of “pre-startup safety review” as per PSM.	4	CO3
Q.4	List out approvals and permissions for creating a new oil and gas unit.	4	CO1
Q.5	Analyze role of contractor in safety management systems.	4	CO4
SECTION B (4Qx10M= 40 Marks)			
Q.6	Describe advantages of accident investigation.	10	CO3
Q.7	Briefly discuss about color- coding and safety sign used in oil and gas industry.	10	CO4
Q.8	Safety videos can play important role in avoiding of occupational diseases/ accidents in industries. Justify your opinion.	10	CO2
Q.9	Define MSDS? Describe the contents of checklist of MSDS.	10	CO3
SECTION-C (2Qx20M=40 Marks)			
Q.10	Explain the term “Ergonomics” Describe ergonomics task analysis.	20	CO4
Q.11	<p>Safety policy is very important for most of the industries. Illustrate safety related procedures & basic safety rules for a refinery operations.</p> <p style="text-align: center;">Or</p> <p>Entry in confined space is very crucial. Discuss in detail steps of safe entry in confined space.</p>	20	CO5