

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May, 2019

Course: HSE Challenges in Energy Sector

Semester: Xth

Programme: BA LLB (Hons.) Energy law

Course Code: MBEF 932

Time: 03 hrs.

Max. Marks: 100

Instructions: All questions are compulsory

SECTION A (10 Marks)

S. No.		Marks	CO
Q 1	Expand the following terms a) ALARP..... b) QRA..... c) PHA..... d) PPE..... e) CPCB.....	05x01=5	CO3 & CO2
Q2	Write a short note on- a) Sources of noise pollution. b) Effects of noise pollution on human beings.	2.5+2.5	CO4

SECTION B (04x05=20 Marks)

Q3	List the common cause of industrial injury in work environment.	05	CO3
Q4	Briefly discuss the different level of emergencies based upon their magnitude and consequences.	05	CO3
Q5	Name any five regulatory/statutory agencies having jurisdiction over the petroleum industry.	05	CO2
Q6	Define the term primary energy source and secondary energy source with examples.	05	CO1

SECTION-C (02x10=20 Marks)

Q7	Briefly discuss different methods for bridging the gap between energy supply and energy demand.	10	CO1
Q8	Discuss the benefits of environmental management system.	10	CO3

SECTION-D (50 Marks)

Q9	Discuss the general responsibilities of occupier under The Factory Act, 1948.	20	CO2
Q10	Explain different control technologies used in installations to control particulate matter emissions in flue gas.	20	CO4
Q11(a)	EIA is potentially one of the most valuable, interdisciplinary and objective decision making tool with respect to alternative route for development process, technology and project site. Discuss rapid and comprehensive environmental impact assessment.	10	CO3
Q11(b)	Or HSE audit is a management tool comprising a systematic, documented, periodic and objective evaluation of the performance of the organisation, management system and processes designed to protect environment with the aim of facilitating management control practices which may have impact on environment and assessing compliance with environmental policies. Discuss different types of HSE audit.		

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SECTION A (10 Marks)

S. No.		Marks	CO
Q 1	Expand the following terms a) HAZOP..... b) ETA..... c) BLEVE..... d) IMO..... e) SMPV.....	05x01=05	CO3 & CO2
Q2	Write a short note on- a) Effects of air pollution on human beings and plants	05	CO4

SECTION B (04x05=20 Marks)

Q3	Briefly discuss the personal attributes of an environmental auditor	05	CO3
Q4	Name any five permits applicable in a petroleum installation.	05	CO3
Q5	Briefly discuss the salient features of –The Motor Vehicle Act,1988	05	CO2
Q6	Define the term noise. List the sources of noise pollution in oil and gas industry	05	CO4

SECTION-C (02x10=20 Marks)

Q7	Energy has been universally recognized as one of the most important inputs for economic growth and human development. Briefly discuss the commercial and non-commercial source of energy with examples.	10	CO1
Q8	Discuss in detail the benefits of environmental management system.	10	CO3

SECTION-D (50 Marks)

Q9	Explain different control technologies used in installations to control gaseous emissions in flue gas.	20	CO4
Q10(a)	Discuss in detail different groups /types of hazards faced by the workers in the while working in the installation.	10	CO3
Or			
Q10(b)	Discuss various methods used in environmental impact assessment.		
Q 11	Discuss the salient features of The static and mobile pressure vessels, (SMPV) (unfired) rules, 1981 and The Gas Cylinder Rules, 1981.	20	CO2