


PAPER-1

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Health, Safety & Environment Management of Program

Semester: VIII

Program: B. Tech. Applied Petroleum + Sp. Upstream

Time: 03 hrs.

Course Code: ENVO 401

Max. Marks: 100

SECTION A

THIS SECTION CONTAINS 5(FIVE) QUESTIONSALL QUESTIONS ARE COMPULSORY

S. No.	QUESTIONS	Marks	CO
Q 1	Indicate characteristics of Confined Space.	04	CO1
Q 2	What are the possible causes of Hazard in the Confined Space? Also describe various conditions resulting in the decrease of oxygen in the air.	04	CO1
Q 3	Enlist the Eight (8) Confined Space Risk Assessment Factors.	04	CO2
Q 4	“Emergency Plan/Procedures constitute integral component - during the working at a Confined Space”. Justify the statement with respect to obligatory Procedures/Activities.	04	CO2
Q 5	A permit is required to work/enter in /around a Confined Space, what are (Three) 3 main criterion as defined by OSHA. Also describe additional condition(s) essentially required for permit to work.	04	CO3


SECTION B

THIS SECTION CONTAINS 4(FOUR) QUESTIONS.ALL [] IPULSORY

Q 1	Define-Disaster Management. Also indicate the Essentiality of Disaster Management Plan and its various Phases.	10	CO3
Q 2	“Developing a disaster management plan is a rigid exercise” discuss the statement in light of : (i) Basic Concepts And Prerequisites (ii) Disaster Prevention Plan	10	CO4

SECTION B(Contd.) <u>THIS SECTION CONTAINS 4 (FOUR) QUESTIONS.</u> <u>ALL QUESTIONS ARE COMPULSORY</u>			
S. No.	QUESTIONS	Marks	CO
Q3	Discuss the conceptual approach Environmental Management in oil and gas exploration and production with special reference to Threats & Challenges.	10	CO4
Q4	Discuss the conceptual approach Environmental Management in oil and gas <i>“The enforcement of applicable laws and permits is a crucial factor in their effectiveness.”</i> List - The common legislation that may apply to oil operations. OR <i>“Regulatory control and enforcement is strictly the responsibility competent (national) authorities”</i> Discuss the traditional approach of prescriptive legislation- related to Environmental Principles/Objectives and General Guideline	10	CO4
SECTION-C <u>THIS SECTION CONTAINS 2(TWO) QUESTIONS</u> <u>ALL QUESTIONS ARE COMPULSORY</u>			
S. No.	QUESTIONS	Marks	CO
Q1	Enlist the key steps of Hydrocarbon Exploration and their potential environmental impacts of followings: (i) Atmospheric Impacts (ii) Terrestrial impacts (iii) Ecosystem Impacts	20	CO5
Q2	Discuss operational practices and procedures with respect to Environmental Protection Measures with specific reference to ‘ Implementation on site’ OR Describe the Environmental protection measures with reference to following Oil Field Activities applicable for specific/indicated source of potential : (1) Onshore Exploration and appraisal drilling (Site selection & Site preparation) (2) Offshore Exploration and appraisal drilling (Access & Operations)	20	CO5

PAPER-2

Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2019			
Course: Health, Safety & Environment Management of Program		Semester: VIII	
Program: B. Tech. Applied Petroleum + Sp. Upstream		Time: 03 hrs.	
Course Code: ENVO401		Max. Marks: 100	
Instructions:			
SECTION A <u>THIS SECTION CONTAINS 5 (FIVE) QUESTIONS</u> <u>ALL QUESTIONS ARE COMPULSORY</u>			
S. No.	QUESTIONS	Marks	CO
Q 1	Indicate Essentialities (Sign Boards) and Fundamentals (Facilities) displayed/available at Confined Space.	04	CO1
Q 2	What is the responsibility / role of various related parties with respect to Confined Space Management?	04	CO1
Q 3	Enlist possible Hazards at Confined Space.	04	CO2
Q 4	Indicate the necessity and essential requirements of Personal Protective Equipment for Confined Space.	04	CO2
Q 5	A permit required to work/enter in /around a Confined Space, what are 3 (Three) main criterion as defined by OSHA. Also describe additional condition(s) essentially required for permit to work.	04	CO2
SECTION B <u>THIS SECTION CONTAINS 4 (FOUR) QUESTIONS.</u> <u>ALL QUESTIONS ARE COMPULSORY</u>			
Q 1	What do you understand by Disaster? Also discuss its vitality and golden rules for disaster prevention / recovery plan.	10	CO3
Q 2	“Developing a disaster management plan a rigid exercise” discuss the statement in light of -Disaster Recovery Planning Basic Concepts. Also discuss Improved Project Management (IPM) for protection of vital assets.	10	CO3
Q 3	Describe the various objectives of Environment Management in oil industry along with a Summary of the exploration and production processes.	10	CO4

SECTION B(Contd.)
THIS SECTION CONTAINS 4 (FOUR) QUESTIONS.
ALL QUESTIONS ARE COMPULSORY

S. No.	QUESTIONS	Marks	CO
Q 4	<p><i>“The enforcement of applicable laws and permits is a crucial factor in their effectiveness.” List of the common legislation that may apply to oil operations.</i></p> <p>OR</p> <p><i>“Regulatory control and enforcement is strictly the responsibility of competent national authorities” Discuss the traditional approach of prescriptive legislation related to Environmental principles/objectives and general guideline.</i></p>	10	CO4

SECTION-C
THIS SECTION CONTAINS 2(TWO) QUESTIONS
ALL QUESTIONS ARE COMPULSORY

S. No.	QUESTIONS	Marks	CO
Q1	<p>Enlist the key steps of Hydrocarbon Exploration and their potential environmental impacts of followings:</p> <p>(i) Human, socio-economic and cultural impacts. (ii) Aquatic Impacts. (iii) Terrestrial impacts.</p>	20	CO5
Q2	<p>Discuss operational practices and procedures with respect to Environmental Protection Measures with specific reference to ‘ Implementation on site’</p> <p>OR</p> <p>Describe the Environmental protection measures with reference to following Oil Field Activities applicable for specific/indicated source of potential :</p> <p>(1) Onshore Exploration and appraisal drilling (Site selection & Site preparation) (2) Offshore Exploration and appraisal drilling (Access & Operations)</p>	20	CO5