

Name:  
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES  
End Semester Examination, May 2022

Course Name: Safety in Construction  
Programme: M Tech- HSE  
Course Code: HSFS 7010

Semester: II  
Time: 03 Hours  
Max. Marks: 100

SECTION A

1. Each Question will carry 4 Marks
2. Write only the short answers.

Sr. No.	Question	CO
Q 1	List out hazards available in confined space.	CO1
Q 2	Brief the underground / tunneling work of construction projects.	CO2
Q 3	Enlist the benefits of weekly off for the construction workers.	CO3
Q 4	Explain the unsafe act and unsafe condition at workplace with an example.	CO2
Q 5	Elaborate reporting of accidents as listed in legal provisions.	CO1

SECTION B

Each question will carry 10 marks

Q 6	Discuss work at height activities challenges and share your input in designing or developing SOP for roof slab casting.	CO3
Q 7	Enlist the various components to be included in preparing/ designing of method statements for a particular activity in construction projects. List out their importance.	CO2
Q 8	Justify the need of permit to work system applicable in construction industry with an example.	CO3

Being an expert, do the job safety analysis of piling work activities.

OR

Assess the safe system of work in the activities given below (piling/drilling work) and suggest control measures for avoiding adverse impact on the site.

Q 9



CO4

SECTION C

1. Each Question carries 20 Marks.
2. Instruction: Write long answer.

Discuss in detail the various special provisions as listed in BOCW and identify the need of general and special provisions.

Q 10	<b>OR</b>	<b>CO2</b>
	Describe in detail the blasting operation, their hazard & risk with suitable control measures	
Q 11	A load of 200 MT is to be lifted which is adjacent to a canal. Explain in detail of the lifting plan and procedure for lifting 200 MT load if the lifting work is planned with the help of- (a) Single crane (b) More than one crane	<b>CO3</b>