

Name:	
Enrolment No:	

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

Course: Safety in Construction	Semester: V
Programme: B Tech- Fire & Safety Engineering	Time: 03 hrs.
Course Code: HSFS3005	Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	Reviewing construction projects condition, list out the peculiarity of construction projects.	4	CO3
Q 2	Brief the hazard and risk encountered during tunneling work.	4	CO2
Q 3	Explain the bail out procedure along with advantage and disadvantage.	4	CO2
Q 4	Based on the application of your learning comment on the statement “Accidents do happen at construction site”.	4	CO3
Q 5	List out the purpose and members of safety committee meeting.	4	CO1

SECTION B

Q 6	How project planning is important at construction projects? Discuss various aspect of planning in safety in construction.	10	CO2
Q 7	Accidents/ miss happening are common at construction projects in-spite of availability of adequate legal laws/provisions. Explain the condition of “accident at work place” versus “adequacy of legal laws” and their facts.	10	CO4
Q 8	Discuss the importance of permit to work (PTW) system at work place. Share an example justifying how PTW helps in controlling accidents at construction site.	10	CO4
Q 9	Explain in detail of scaffolds and its types. Prepare a safety inspection checklist for scaffolding work. <p style="text-align: center;">OR</p> Brief of mechanical lifting. Being a HSE personnel, prepare lifting plan for the following conditions: Load is to be lifted – 200 MT and adjacent to canal. i. Load is to be lifted by using single crane. ii. Load is to be lifted by using more than two cranes.	10	CO5

SECTION-C

Q 10	Describe the various special provisions of BOCW. Also, Identify the need of general and special provisions as mentioned in BOCW.	20	CO4
Q 11	Explain the features of dockworkers act in minimizing accidents. Name important provisions related to health safety environment & welfare measures as listed in dockworkers act. Also, discuss the role & responsibility of dock inspector. <p style="text-align: center;">OR</p> One deep excavation is planned adjacent to a river where adequate safety control measures are required. Based on your learning suggest safety control measures for proposed excavation and justify its need.	20	CO1 CO2