

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**End Semester Examination, April/May 2018****Course: Safety in Construction****Semester: II****Program: M Tech HSE/ HSE spl with DM****Time: 03 hrs.****Max. Marks: 100****Instructions:****SECTION A**

S. No.		Marks	CO
Q 1	List out various hazards available in confined space.	04	CO2
Q 2	Brief of constitution of safety committee meeting held in construction industries.	04	CO1
Q 3	Name various accessories used during electric short firing under blasting operations.	04	CO3
Q 4	Elaborate bail out procedure in crane or other appliances operation.	04	CO4
Q 5	Name various defects of wire ropes or slings.	04	CO2

SECTION B

Q 6	Permit to work system helps in controlling accidents. Brief about permit to work system and its pre-requisite.	10	CO1 CO4
	OR	10	CO3
Q 7	Discuss work at height and their associated hazards. Suggest control measures to minimize work at height accidents.	10	CO1
Q 8	Analyze the role of legal laws applicable to construction industry and highlight the need of various general provisions listed in BOCW.	10	CO1 CO2
Q 9	Discuss about dock-workers act and role & responsibility of dock inspector.	10	CO2
Q 9	Highlight the various safety measures adopted while working during underwater works.	10	CO2

SECTION-C

Q 10	Explain in detail of safety during working with confined space and its pre-requisite.	20	CO1 CO2 CO4
	OR	20	CO1 CO3 CO4
Q 11	Excavation is one of the most common and hazardous activity in construction sites. Discuss in detail about excavation and their suitable control measure. Also, prepare a safety inspection checklist of deep excavation.	20	CO1 CO4
Q 11	Explain in detail of scaffolds and its types. Prepare a safety inspection checklist for scaffold work.	20	CO1 CO4

Name:
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SECTION A

S. No.		Marks	CO
Q 1	Brief of occupational emergency and its control measures.	04	CO5
Q 2	Brief on constitution of safety committee meeting held at construction industries.	04	CO1
Q 3	Brief of drinking water facilities at construction site as per provision listed in BOCW Act.	04	CO1
Q 4	Name various accessories used during electric short firing under blasting operations.	04	CO4
Q 5	Brief of rigging and hoisting used in construction industry.	04	CO4

SECTION B

Q 6	List out various reason behind crane accidents and highlight the effective control measures to minimize the same.	10	CO5
	OR	10	
	Manual material handling work is most common at construction site. Highlight the issues or challenges and their control measure while carrying manual material handling.		CO2 CO4
Q 7	Analyze the role of legal laws applicable to construction industry and highlight the need of various general provisions listed in BOCW.	10	CO1
Q 8	Brief of dock-workers act and discuss role & responsibility of dock inspector.	10	CO2
Q 9	Highlight the various hazards and their control measure in demolition works.	10	CO4

SECTION-C

Q 10	Discuss in detail of cofferdam and its types. List out various hazards while working with underwater works	20	CO4
	OR		
	Excavation is one of the most common and risky activity in construction. Discuss in detail about excavation and their suitable control measure. Also, prepare a safety inspection checklist of deep excavation.	20	CO4
Q 11	A load of 200 MT is to be lifted, which is kept adjacent to a canal. Explain in detail		CO2

	of lifting plan and procedure to lift this 200 MT load if the lifting is to be done with the help of- (a) Single crane (b) More than one crane	20	
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