Name:

Enrolment No:



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

Course: BBS & Human Factor Engineering Program: B Tech FSE Course Code: HSFS 2009

Semester: III Time 03 hrs. Max. Marks: 100

Instructions:

		SECTIO	ON A				
S. No.		Marks	CO				
Q 1	What do you understand b	4	CO2				
Q 2	Outline various lagging an	4	CO2				
Q 3	Why the 'percentile' concept in used in ergonomic designs?				CO3		
Q 4	Differentiate safety audit and inspection				CO2		
Q 5	Differentiate attitude and b	4	COI				
		SECTI	ON B	I			
Q 6	What is hierarchy of risk control? Discuss hierarchy of risk control using suitable examples.				CO2		
Q 7	Define confined space. W these hazards can be effec	3+3+4	CO2				
	What is work permit syste	3+7					
Q 8	What are the objectives of accident investigation?. 'Every accident is a symptom of system failure'- Justify.				CO4		
Q 9	What is the philosophy of improve behaviors.	^{io} 4+6	CO1				
		SECTIO	DN-C				
Q 10	Average number of emplois given below. Total wo hours for any employee w works were performed due	g	CO5				
	Time period- 2019	Morning Shift	Night Shift				
	January to April	1000	1000				

	May to August	2000	1000		
	Sept to Dec.	1000	2000		
	The following are the)			
	 a) Number o b) Number o c) Number o d) Number o Calculate reportable a rates for the year 2017 	ncidence			
Q 11	a. What is CTD? Discus CTD? Explain the ergon	contribute 3+7+ 4+6			
	Or b. What do you mean by Human Factor Engineering? How its effective implementation will improve the health, safety and the productivity of working population?				CO3