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	KALAM TECHNOLOGICAL UNIVERSI	110	337	F. STINDLY US		
B.Tech Degree S7 (R, S)	/ S7 (PT) (R,S) Examination November 2024	(201	9. S.	THUR!	المنطقي	J. S. Carlotte

Course Code: MCN401

Course Name: INDUSTRIAL SAFETY ENGINEERING

Max. Marks: 100			3 Hours
		PART A Answer all questions, each carries 3 marks.	Marks
1		Differentiate between unsafe act and unsafe condition.	(3)
2		Define safety policy.	(3)
3			(3)
		What is PTW in industrial safety engineering.?	
4		Define the terms severity rate, incident rate, and activity rate.	(3)
5		List the safety practices when working at heights.	(3)
6		What is the relevance of ergonomics in construction safety?	(3)
7		Which are the hazards associated with manual material handling?	(3)
8		What is meant by point of operation?	(3)
9		What are material safety data sheets?	(3)
10		Why MSDS is mandatory for chemical products?	(3)
		PART B Answer any one full question from each module, each carries 14 marks.	
		Module I	
11	a)	Explain different types of safety organizations.	(10)
	b)	Explain the importance of establishing a safety committee.	(4)
	ĺ	OR	
12	a)	Explain the roles of supervisors in safety.	(6)
	b)	Explain about different types of safety committees.	(8)
		Module II	
13	a)	Describe any four respiratory personal protection devices.	(10)
	b)	What are the safety precautions to be followed before entering a confined space?	? (4)
		OR	
14	a)	Explain the hot work permit and cold work permit.	(10)
	b)	Examine some strategies to make employees comfortable with PPE.	(4)

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Module III

15	a)	Discuss the safety and fire protection facilities required for a high-rise building as	(8)
		per the National Building Code of India	
	b)	Explain how the safety of workers can be ensured during a demolition operation	(6)
		OR	
16	a)	Distinguish ladders and scaffolds, along with their safety features.	(7)
	b)	Discuss important types of ergonomic hazards associated with industries	(7)
		Module IV	
17	a)	Which are the various types of machine-guarding devices used in industries?	(14)
		Discuss the suitability of each machine guarding device.	
		OR	
18	a)	What are all the potential hazards in Arc welding, and how to protect from	(8)
		hazards?	
	b)	Explain the four key areas of manual handling.	(6)
		Module V	
19	a)	Explain the different classifications of Fire.	(14)
		OR	
20	a)	Describe the different types of risk assessment tools	(14)
		두 사람들이 얼마 있다.	

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