

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination November 2018

M. Tech (as applicable) in ...HSE.. Engineering, Semester ...I...

Roll No.....

COURSE CODE: MTHSE 104

Time: 3 hours

Max. Marks: 80

COURSE TITLE: Regulation for Health, Safety and Environment

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

Q.1A	Objective type multiple choice questions (10 questions @ 1 mark)	10
i.	In which year did factories act come into force? a. 23rd September, 1948 b. 1st April, 1949 c. 4th April, 1949 d. 12th September, 1948	
ii.	As per the factories act, after how many years should the factory premises be painted and refurbished? a. 5 years b. 2 years c. 10 years d. Annually	
iii.	As per section 2 in factories act, who will be called as an adult? a. A person who has completed 21 years of age b. A person who is less than 19 years of age c. A person who has completed 24 years of age d. A person who has completed 18 years of age	
iv.	Characteristic of hazards material a- ignitibility b- corrosively c- reactivity d- all of these	
v.	Hazardous Chemical Rules is related with. a- Manufacture b- Storage c- Transport & import d- All of these	
vi.	Tree plantation helps in environment protection by a. converting co2 into oxygen b. reduce air conditioning load if planted near the house c. save erosion of land d. All of these	
vii.	Environmental Protection act, 1986 a- related to reduce pollution b- hazardous handling c- Standards for emission or discharge of environmental pollutants d- All of these	

viii.	The Indian Explosives Act, 1884 "Chief Controller" means a- Chief Controller of Explosives b- Competent person appointed by CCE c- A person appointed by explosive Controller. d- None	
ix.	Compressed gas" means a- any permanent gas in gas cylinder b- liquefiable gas in gas cylinder c- gas dissolved in liquid in gas cylinder d- all of these	
x.	ISO 14001 is more likely to be used in a- manufacturing or processing industries b- construction, c- health care d- all of these	

Q.2	Short answer type questions (4 questions @ 2.5 marks)	10
1	Differentiate between fatal and nonfatal electrical accidents.	
2	Short note on objective of OSHAS.	
3.	Short note on types of ISO 14000 standards for industries.	
4.	Short note on class of petroleum.	

Q.3A	Give short note on ISO 14001 and-how this standard important for different industries.	05
Q.3B	Describe silent feature of electricity act 2003.	05

Q.4A	Give a specific note on hazardous waste management in India.	05
Q.4B	Note on a- Gas cylinder b- compressed gas	05

Q.5A	Discuss the environment protection act with specific points.	05
Q.5B	How OHSAS 18000 standard play important role for safety in industry.	05

Q.6A	OHSAS 18001 and its comparison with ISO 14001 key point to be discussed.	05
Q.6B	Give note on the hazardous wastes rules, for management and handling.	05
	OR	
Q.6B	List out various kind of safety precautions to taken handling of electrical equipment's.	05

Q.7	Short note on biomedical waste and discussed (MANAGEMENT AND HANDLING) Rules, 1998	10
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Q.8	Explain the various step for certification of OSHAS 18000 certification and application.	10
	OR	
Q.8	Short note on a- Manufacture, storage and import of hazardous chemicals rules, 1989 b- BS 18004:2008	10