BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS	: M. Pharm. CH: PHARMACY	SEMESTER: I SESSION: SF	
	SUBJECT: MQA201T-Hazards and Safety Management		
TIME: 3.00 Hours FULL M INSTRUCTIONS:		ARK: 75	
1. Answer five out of seven questions			
 The missing data, if any, may be assumed suitably. Before attempting the question paper, be sure that you have got the correct question paper. 			
4. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.			
1a.	Describe the effect of industrial pollution on human health and how you can control		[7]
1b.	Discuss water and forest resources looking into Indian scenario and state the majors them.	to preserve	[8]
2a.	Describe PHA and steps involved in it. Discuss critical elements of hazards checklist.		[7]
2b.	Define clean room specification. Design an aseptic area for ophthalmic using HVAC s	system.	[8]
3a.	Write short notes on:		[7]
	(I) Classification of chemical hazards(II) Labelling of chemical hazards		
	(III) Sensitizing substances		
3b.	Discuss about "Right to know law" in hazards communication stating its significance	•	[8]
4a.	Define oxidising gas. Calculate the oxidising power of a mixture of gas containing 15% nitrous oxide and 75% helium.	10% oxygen,	[7]
4b.	Write a short note on management of combustible gases and toxic gases. Explain	briefly TLV	[8]
	concept.		
5a.	Outline the important elements of emergency planning. Describe different phases o management.	f emergency	[7]
5b.	Write a short note on BOD.		[8]
6a.	Illustrate the primary mechanisms of different types of fire extinguishers. Discuss	any one of	[7]
6b.	the fire extinguishers. Categorize different types of mechanical hazards. Describe the causes of mechanica	l hazards.	[8]
7a.	Define accident. Demonstrate different preventive measures for an accident in a	an industrial	[7]
	environment.		
7b.	Explain the elements of the safety management system.		[8]

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