

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VI (New) EXAMINATION – WINTER 2019****Subject Code: 2161305****Date: 09/12/2019****Subject Name: Occupational Health and Safety****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Discuss various TLVs	03
	(b) Explain classification of occupational health hazards	04
	(c) Write a short note: need of personal protective equipment	07
Q.2	(a) Discuss the concept of safety	03
	(b) What do you mean by the terms VCE and BLEVE?	04
	(c) Discuss in detail route of entry of toxic material into human body	07
	OR	
	(c) Write a short note: safety management and its responsibilities	07
Q.3	(a) Name the various occupational diseases caused by metals, dusts, fumes and chemical compounds	03
	(b) Explain the constituents of ergonomics	04
	(c) Discuss the reasons for accident prevention	07
	OR	
Q.3	(a) Enlist the dangerous properties of chemicals	03
	(b) Enlist the seven basic elements of management functions	04
	(c) With the help of examples, give application of ergonomics for safety and health	07
Q.4	(a) Enlist the types of accidents	03
	(b) Draw a neat sketch of pyramid of fire	04
	(c) Discuss in details the effect of electrical parameters on human body	07
	OR	
Q.4	(a) What are the five 'E' of accident prevention	03
	(b) Discuss various classes of fire	04
	(c) Write a short note: safety measures for electric work	07
Q.5	(a) Enlist the types of emergency and define any one of them	03
	(b) Enumerate the factors of requisite characteristics of personal protective equipment	04
	(c) Discuss the guide words used for hazard and operability (HAZOP) study	07
	OR	
Q.5	(a) What do you mean by the term QRA?	03
	(b) Explain the main objectives of major hazard control system	04
	(c) Discuss safety in construction industry	07
