www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VII (New) EXAMINATION - WINTER 2019

Subject Code: 2173508	Date: 26/11/2019
Subject Code: 21/3508	Date: 26/11/2

Subject Name: Safety Health & Environment

Time: 10:30 AM TO 01:00 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)	Define: Hazard, Flash Point, Risk.	03
	(b)		04
	(c)	What do you mean by occupational hazards? Explain physical hazards, chemical hazards and biological hazards in detail?	07
Q.2	(a)	Define: Safety, Ignition, Material Factor.	03
	(b)	Explain "Fire Triangle" with the help of neat diagram.	04
	(c)	Discuss Fault tree analysis with the help of neat diagram.	07
		OR	
	(c)	Discuss Event tree analysis with the help of neat diagram.	07
Q.3	(a)	Define: Unsafe Conditions, Mistakes, Error.	03
	(b)	What do you understand by ergonomics?	04
	(c)	Explain HAZOP in detail.	07
		OR	
Q.3	(a)		03
	(b)	Explain appropriate measures to control the hazards associated with noise, repetitive strain and stress?	04
	(c)	Discuss occupational environment in health.	07
Q.4	(a)	Discuss hand and arm protection PPEs.	03
	(b)	What are different type of PPEs.	04
	(c)	Discuss plant safety inspection in detail?	07
		OR	
Q.4	(a)	Discuss failure mode and effects analysis.	03
	(b)	What Do you understand PPE? Discuss their importance.	04
	(c)	Enlist the factors affecting the selection of personal protective Equipment (PPE).	07
Q.5	(a)	Enlist common cause of work related illness and discuss anyone.	03
	(b)		04
	(c)	Explain the models of accident prevention in detail.	07
		OR	
Q.5	(a)	Discuss the dangers associated with fire.	03
-	(b)	Explain the importance of "Health and Safety" in industries.	04
	(c)	Explain fundamentals of accident prevention in detail.	07
