## P. P. SAVANI UNIVERSITY

Sixth Semester of B.Sc. fire and safety Examination January -2023

SSFS3130-Health, safety & environment

## 11.01.2023, Wednesday Time: 09:00 a.m. to 11:30 a.m. Maximum Marks: 60 Instructions: 1. The question paper comprises of two sections. 2. Section I and II must be attempted in separate answer sheets. 3. Make suitable assumptions and draw neat figures wherever required. 4. Use of scientific calculator is allowed. Section-I (Total Marks - 30) Q.1 Short Questions [10] 1.1 Objectives(10MCQ Compulsory-0.5 mark each) [05] 1.1a Which one is the personal safety? A Clean the machine B Keep your concentration to the work C Floor clean D Keep the tool at tool box 1.1b Which is the immediate lifesaving procedure? A First aid B Call doctor C Hospital care D Medical treatment 1.1c Which come under mechanical hazard? A Noise B Toxic C Unskilled D Unguarded machinery 1.1d How to stop bleeding of injured person? A Tie bandage B Apply ointment C Apply antiseptic on wound D Apply palm of hand pressure over wound 1.1e What is the period referred as golden hours? A First 30 min after incident B First 40 min after incident C First 50 min after incident D None of this

	A Wear PPE B Alone work C Observe unsafe act and unsafe condition D None of this	
1.1g	In ABC of first aid, "A" denotes  A Airway  B attention C arresting D atmosphere	
1.1h	Which of the following injury is common in gas welding?  A Electric shock  B burns  C bleeding  D None of this	/
1.1i	Example of physical hazards  A Toxic  B vibration  C virus  D None of this  Which is the less expensive disposal method?  A recycling  B Land fills  C Composting  D Burning waste	
1.2 1.2a 1.2b 1.2c 1.2d 1.2e	Answer the Following: (Definition-1 mark each ) Safety Accident Hazard Risk Harm	[05]
Q.2 . A B C	Short Notes (Attempt any two-3 mark each) Explain health and safety culture Explain key element of health and safety system Write down factor influencing health and safety management	[06]
Q.3 A B	Explain in detail (Attempt any two-7 mark each) Explain health and safety policy. Write down importance, aim and objective of health and safety policy. Explain need of safety philosophy	[14]

## Section-II (Total Marks - 30)

Q.1 1.1 1.1a	Short Questions Objectives(10MCQ Compulsory-0.5 mark each) Which of the following is NOT the cause of electric fire? A Open doors B Electric shock circuit C Loose connection D None of this	[10] [05]
1.1b	Benefits of maintenance A Improve productivity B Reduce scrape C both D None of this	/
1.1c	Purpose of lockout tag out A Improve productivity B Isolate energy C Stop work D None of this	
1.1d	Purpose of CPR A Recover & Maintain body oxygen & blood circulation B Stabilized body temperature C Both D None of this	
1.1e	Common sign of heart attack  A Chest pain  B Spine pain  C Stomach pain  D None of this	
1.1f	Heat stroke indicate  A Hot and dry skin  B vomiting  C Stomach pain  D None of this	
1.1g	Electric shock on human body depends upon  A Line voltage  B Line current  C Current flowing through the body  D None of this	

1.1h	Which of the following Ladder safest of electrical work?
	A wooden
	B fiber
	C both
	D None of this
1.1i	Which of the following gloves is used better grip & protection from heat
	A fabric
	B rubber
	C leather
	D aluminum
1.1j	LOTO stands for
	A Lock out tag out
	B Lock out and throw out
	C Both
	D None of this
1.2	Answer the Following: (Definition-1 mark each) [05]
1.2a	Safety culture
1.2b	Safety philosophy
1.2c	Safety psychology
1.2d	Noise pollution
1.2e	Safety policy
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Q.2	Short Notes (Attempt any two-3 mark each) [06]
A	Explain solid waste management.
B	Explain characteristics and classification of solid waste.
C	Explain environment impact.
Q.3	Explain in detail (Attempt any two-7 mark each) [14]
A A	Explain noise pollution.
В	Explain noise control.
C	Explain the concept of radiation.