P. P. SAVANI UNIVERSITY

Second Semester of B.Sc. Fire & Safety Examination
December -2022
SSES1150-Industrial safety management

30.12	2.2022, Friday Time: 09:00 a.m. to 11:30 a.m. Maximum Marks: 60	_
1. Th 2. Se 3. M	nuctions: the question paper comprises of two sections. the question I and II must be attempted in separate answer sheets. Iake suitable assumptions and draw neat figures wherever required. ' se of scientific calculator is allowed.	
	Section-I (Total Marks - 30)	
Q.1		[10]
1.1	Objectives(10MCQ Compulsory-0.5 mark each)	[05]
1.1a	Purpose of LOTO	
	A Isolation of electrical energy	
	B Improve productivity	
	C Save money	
	D None	
1.1b	If you discover an accident on the job site	
	A Call workers	
	B Go to the injured person to help	
	C Inform the emergency response team	
	D Fill the necessary document	
1.1c	Purpose of cartridge type respirator	
	A Reduce the concentration of ppm in the air	
	B Provide supplied oxygen	
	C Both	
	D None	
1.1d	Industrial safety management is a branch concern with hazards	
	A Reducing	
	B Controlling	
	C Eliminating	
	D All of this	
1.1e	Indirect cost of accident	
	A Treatment expenses	
	B Loss of time	
	C Compensation	
	D None	

1.1f	is the following is chivin offine mazard	
	A Extreme temperature	
	B Falls	
	C electricity	
	D All of this	
1.1g	Checklist for job safety analysis	
	A Man, machine, tools	
	B Machine, man ,tools	
	C Work area ,material, machine tools	
	D None	
1.1h	Which color is used to indicate the prohibition sign and danger alarm?	
	A Red	
	B yellow	
	C Green	1
	D Blue	
1.1i	Which color is used to indicate the first aid sign	
	A Red	
	B Green	
	C yellow	
	D pink	
1.1j	What are the hazards in industrial site?	
	A Cutting & crushing	
	B Slip-trip	
	C Electric shock	
	D All above	
1.2	Answer the Following: (Definition-1 mark each)	[05]
1.2a	Manual hazard	
1.2b	Accident	
1.2c	MSD	
1.2d	Risk	
1.2e	Danger	
Q.2	Short Notes (Attempt any two-3 mark each)	[06]
A	Write down manual handling hazards.	
В	What are benefits of industrial safety management.	
С	Define the ways to minimize manual handling hazards.	
Q.3	Explain in detail (Attempt any two-7 mark each)	[14]
A	Explain safety in fertilizer industries.	[-,1]
В	Explain safety in cement industries.	
C	Explain safety in textile industries.	

Section-II (Total Marks - 30)

1.1 Objectives(10MCQ Compulsory-0.5 mark each)

1.1g Electric shock on human body depends upon

C Amount of Current flowing through the body

A Line voltageB Line current

D None of this

Q.1 Short Questions

1.1a	W	nich of the following is the cause of electric fire?		
	A	Open doors		
	В	Electric shock circuit		
	C	Loose connection		
	D	None of this		
1.1b	Ве	nefits of prevent accident		
	A	Improve productivity		
	В	Reduce scrape		
	C	both		
	D	None of this	1	
1.1c	Pu	rpose of electrical isolation		
	A	Improve productivity		
	B	Isolate energy		
	C	Stop work		
	D	None of this		
1.1d		rpose of cardiopulmonary resuscitation		
	A	Recover & Maintain body oxygen & blood circulation		
	В	Stabilized body temperature		
	C	Both		
	D	None of this		
11				
1.1e	0			
		mmon symptoms of heart attack		
	A	Chest pain		
	A B	Chest pain - Spine pain		
	A B C	Chest pain Spine pain Stomach pain		
	A B	Chest pain - Spine pain		
1.1f	A B C D	Chest pain Spine pain Stomach pain headache	· · · · · · · · · · · · · · · · · · ·	
1.1f	A B C D	Chest pain Spine pain Stomach pain headache at stress indicate	5.0 A	
1.1f	A B C D	Chest pain Spine pain Stomach pain headache at stress indicate Hot and dry skin	5.0 A B	
1.1f	A B C D	Chest pain Spine pain Stomach pain headache at stress indicate		

[10]

[05]

1.1h	Which of the following Ladder is not safest of electrical work? A wooden B fiber C Aluminum D None of this	
1.1i	Which of the following gloves better grip & protection from electrical shock A fabric B rubber C leather	
1.1j	D aluminum LOTO stands for A Lock out tag out B Lock out and throw out C Both D None of this	
1.2b 1.2c	Electrical safety Conductor Insulator	
Q.2 A B	Short Notes (Attempt any two-3 mark each) Write down the advantage of industrial safety management. Write down the need & Importance of electrical safety. Explain about Earthing and short circuiting.	
Q.3 A B C	Explain in detail (Attempt any two-7 mark each) Explain the Principles and measurement of electricity Describe slip, trip and fall hazard. Write the factors that increase risk of a road traffic incidents.	