## P. P. SAVANI UNIVERSITY

First Semester of Diploma Fire & Safety Examination December -2022 SSDFS1020-Construction safety

06.12.2022, Tuesday

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

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** What is the leading cause of death on construction site?
  - A Stuck by object
  - B Fall
  - C Caught-in
  - D Electric shock
- 1.1c Which come under mechanical hazard?
  - A Noise
  - B Toxic
  - C Unskilled
  - D Unguarded machinery
- 1.1d Stop bleeding
  - 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

1.1f	What is the first step to avoid accident in workplace?	
	A Wear PPE	
	B Alone work	
	C Observe unsafe act and unsafe condition	
	D None of this	
1.1g	How should ladder being inspected?	
	A In Every use	
	B Once in a week	
	C Once in a month	
	D Every six month	
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	
1.1j	What are the hazards in construction site?	
	A Fall	
	B Slip-trip	
	C Electric shock	
	D All above	
1.2	Answer the Following: (Define-1 mark each )	[05]
1.2a	Construction	[03]
1.2b	Scaffold	
1.2c	Coupling	
	Full body safety harness	
1.2e	Housekeeping	
Q.2	Short Notes (Attempt any two-3 mark each)	[06]
A	What are the Type of building and Classification of building according to NBC?	
В	What are the Types of scaffolding?	
C	Write down brief about Scaffold Construction & dismantling in construction	
	site?	
Q.3	Explain in detail (Attempt any two-7 mark each)	[14]
A	Write down Safety in excavation and describe Trenching & shoring	
В	Write down the Purpose of road safety.	
С	How you Investigate a scaffold accident?	

## Section-II (Total Marks - 30)

Q.1	Sh	ort Questions	[10]	
1.1	Objectives(10MCQ Compulsory-0.5 mark each)			
1.1a	Which of the following is NOT the cause of electric fire?			
	A	Open doors		
	В	Electric shock circuit		
	C	Loose connection		
	D	None of this		
1.1b	Be	nefits of maintenance		
	A	Improve productivity		
	В	Reduce scrape		
	C	both		
	D	None of this	1	
1.1c	Pu	rpose of lockout tag out		
	A	Improve productivity		
	В	Isolate energy		
	C	Stop work		
	D	None of this		
1.1d		rpose of CPR		
	A	Recover & Maintain body oxygen & blood circulation		
	В	Stabilized body temperature		
	C	Both		
	D	None of this		
1.1e	Cor	mmon sign of heart attack		
1.10	A	Chest pain		
	В	Spine pain		
	C	Stomach pain		
	D	None of this		
	D	Notice of this		
1.1f	Hea	at stroke indicate		
	A	Hot and dry skin		
	В	vomiting		
	C	Stomach pain		

# 1.1g Electric shock on human body depends upon

A Line voltage

D None of this

- 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	1
	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	Importance of safety	[]
1.2b	Housekeeping	
1.2c	excavation	
1.2d	Sloping in excavation	
1.2e	Benching in excavation	
Q.2	Short Notes (Attempt any two-3 mark each)	[06]
A	Write down the Purpose of excavation in construction site.	2.E (05)
В	What is Ladder and types of ladder used in industries.	
С	Explain the Use of safety nets and fall protection system at height work.	
Q.3	Explain in detail (Attempt any two-7 mark each)	[14]
A	Explain ropes and lines and its purpose.	
В	Describe the types and function of knots.	
C	Fynlain 5'S of housekeeping and Importance of cafety	