P. P. SAVANI UNIVERSITY

First Semester of Diploma fire & safety Examination December-2022

SSDFS1040-Environment safety

08.12.2022, Thursday 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) [10] Q.1 Short Questions 1.1 Objectives(10MCQ Compulsory-0.5 mark each) [05] 1.1a Which substance give you heat and light after combustion? A flame В fuel C combustion None of the above 1.1b Coal burn with _ A flame B Only glow C Both D None of this 1.1c Burning of coal produce A CO2 B S02 C CO D 02 1.1d CNG & LPG are the examples of_____ fuel A Solid B liquid C gas D They are not fuel 1.1e Combustion is a A Chemical process **B** Physical process C Biological process

D None of this

1 16	The second of th	
1.1f	r	
	A carbon dioxide and water B Oxygen and water	
	- John Mild Water	
	C Only carbon dioxide D Only oxygen	
	D Only oxygen	
1 1σ	Pyrolysis is	
1.15		
	g or organic substance in the absence of oxygen	
	or organic substance in the presence of oxygen	
	B Barne substance in the absence of temperature	
	D the heating of organic substance in the absence of fuel	
1.1h	Example of pyrolysis	
	A grilling	
	B cooking	,
	C washing	
	D pressing	
1.1i	Incomplete combustion of substance result	
	A Carbon monoxide	
	B oxygen	
	C carbon	
	D hydrogen	
1.1j	Carbon monoxide affect human cause	
	A Lungs, throat	
	B ear	
	C hand	
	D leg	
1.2	Answer the Following: (Definition-1 mark each)	[05]
1.2a	Pollution	
1.2b	Radiation	
1.2c	Deforestation	
	Air pollution	
1.2e	Water pollution	
Q.2	Short Notes (Attempt any two-3 mark each)	[06]
A	Explain automobile pollution hazards.	[oo]
В	Describe ultra violet and infra-red radiation.	
С	Write down about water treatment plant and sewage treatment plant.	
Q.3	Explain in detail (Attempt any two-7 mark each)	[14]
A	Write down hazardous waste management system.	[14]
В	Explain the Methods of collection and disposal of solid wastes.	
С	Write down hazard due to bio processes.	

Section-II (Total Marks - 30)

1.1a	Hy	drogen sulfide gas has an odor(smell)
	A	Rotten egg
	В	No smell
	C	Both
	D	None of the above
1.1b	Iti	is poisonous gas
	A	Hydrogen sulfide
	В	Carbon dioxide
	C	Sulphur dioxide
	D	None of the this
1.1c	It i	s a toxic gas
	A	Sulphur dioxide
	В	Carbon dioxide
	C	both
	D	None of this
1.1d	Ph	oto chemical smog is type of
	A	Noise pollution
	В	Air pollution
	C	Land pollution
	D	Water pollution
1.1e	WI	nich of the gas is not greenhouse gas?
	A	Nitrogen dioxide
	В	Carbon dioxide
	C	methane
	D	ozone
1.1f	Wł	nich of the following is non-biodegradable
	A	Wool
à	В	Nylon
	C	Animal bones
	D	Tea leaves

1.1 Objectives(10MCQ Compulsory-0.5 mark each)

Q.1 Short Questions

[10]

[05]

1.1g	W	nich is an environment hazard?	
	A	Food poison *	
	В	Acid rain	
	C	forestation	
	D	biogas	
1.1h	Ph	ysiological effect of combustion product to human	
	A	asphyxiation	
	В	burn	
	C	cut	
	D	None of this	
1.1i	Wł	nich of the following is Irritant smoke	
	A	Sulphur dioxide	
	В	oxygen	
	C	Carbon dioxide	
	D	None of this	
1.1j	Wh	ich of the following is nonirritant smoke	
	A	Carbon dioxide	
	В	Sulphur dioxide	
	C	Nitrogen dioxide	
	D	None of this	
1.2	Ans	swer the Following: (Definition-1 mark each)	[05]
1.2a	-	et monitor	
1.2b	Gas	analyzer OR detector	
1.2c	Lux	meter	
1.2d		meter	
1.2e	Gas	Chromatography	
Q.2		ort Notes (Attempt any two-3 mark each)	[06]
A	Wri	te down Control of gaseous emission by adsorption & combustion method	
В		lain Pollution control board.	
C	Des	cribe Scrubber and Bag filter.	
Q.3	Exp	lain in detail (Attempt any two-7 mark each)	[14]
A	Wri	te down Pollution control in process industry like Cement, paper, textile.	
B C	Des	cribe the Classification and properties of chemical.	