P. P. SAVANI UNIVERSITY

FifthSemester of B.Sc. Examination

Jan-2021

SSFS3050-Combustion and its effect on life safety

08.01.2021, FridayTime: 12:30 p.m. to 03:00 p.m. Maximum Marks: 60

Q.1 1.1 1.1a	Section-A (Total Marks - 30) Very Short Questions (attempt all questions) Objectives (10MCQ Compulsory-0.5 mark each) Which substance give heat and light after combustion A Flame	(1 0
1.1b	B Fuel C Combustion D None of these Coal burns with A Flame B Only glow	
1.1c	C Both flame and glow D None of these Which fuels are used for running automobiles? A Wood B Coal	
1.1d	A Magnesium hydroxide B Magnesium oxide	
1.1e	C Magnesium chloride D All off the above A temperature at which the substance burns is called A Melting B Boiling temperature	
1.1f	C Kindling temperature D Evaporation Which is non-renewable source of energy? A Natural gas B Wind energy	
1.1g	C Mechanical energy D All of the above Which gas helps in the process of combustion? A Cooking gas B Nitrogen gas	
1.1h	C Oxygen gas D Producer gas Burning coal in a closed room will produce A Nitrogen oxide B Carbon dioxide	
1.1i	C Carbon monoxide D Oxygen Which is non-combustibles substance? A Wood B Paper	
	C Iron nails	

Straw

1.1j	Which of the following coloured is used for radiation hazard?	
	A Red	
	B Orange	
	C Green	
	D Purple	
1.2	Five Questions (Definitions-1 mark each)	
1.2a	Pyrolysis	05
1.2b	Combustion	
1.2c	Health	
1.2d	Heat	
1.2e	Environment	
Q.2	Short Notes (attempt any two- 3 marks each)	
A	Different between pyrolysis and combustion	06
В	Effect of combustion on humans	
С	Explain about monitoring equipment	
Q.3	Explain in detail (attempt and a	
A	Explain in detail (attempt any two-7 marks each) What is combustion	14
В		
C	Detail about combustion product generation from fires and industrial Effect on environment of combustion	
	of the office of compustion	

Section-B (Total Marks - 30)

Q.	1	Very Short Questions (attempt all questions)	(10)
1.		Objectives (10 MCQ Compulsory-0.5 mark each)	(10) 05
	1a	Decibel (dB) is a unit used to measure	03
1.	La	A Light	
		B Sound	
		C Frequency	
		D None of the above	
1.	1b	The following are generally provided with limit switch to prevent motion beyond	
-		preset limit	
		A Hoists	
		B Conveyor	
		C Machine tables	
		D All of the above	
1.	1c	The following are used as safety devices in machine	
		A Fail safe	
		B Safety interlock	
		C Limit switches	
		D All of the above	
1.	1d	Class-A consists of fire due to	
		A Wood	
		B Oil	
		C Transformer	
		D Chemical	
1.	1e	Water is used to extinguish	
		A Class - A fires	
		B Class -B fires C Class -C fire	
1	1f		
1.	11	The following extinguisher is suitable for cotton or other textile fire A Water	
		B Soda acid	
		C Foam	
		D Dry chemicals	
1.	1g	is best suited to extinguishing oil or flammable liquid fire.	
	-6	A Soda acid	
		B Vaporizing liquid	
		C Foam	
		D Dry chemical	
1.	1h	Which of the following is not the effect of modern agriculture?	
		A Nitrate pollution	
		B Eutrophication	
		C Biomagnification	
		D Ozone depletion	
1.:	1i	Production, transformation and use of energy are the major problems of:	
		A Industrial activity	
		B Sustainable development	
		C Global warming	
		D Acid rain	
1.:	11	Chemical industry is not a cause of:	
1	-)	A Air pollution	
		B Noise pollution	
		C Water pollution	
		D Nuclear pollution	

1.2	Five Questions (Definitions-1 mark each)	
1.2a	Hazard Hazard	05
1.2b	Air	
1.2c	Burn	
1.2d	Fire	
1.2e	Injury	
Q.2	Short Notes (attempt any two- 3 marks each)	
A	Effect on fire fighter and victims of fire	06
В	Discuses about combustion	
3	What is pyrolysis	
2.3	Explain in detail (attacks	
ì	Explain in detail (attempt any two-7 marks each) Effect on human of combustion	14
3	Effect from inhelestion	14
	Effect from inhalation and indirect consumption of combustion Explain in detail combustion bazard	