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Total No. of Printed Pages: 2

Enrollment No.....



Faculty of Engineering
End Sem Examination May-2023
FT3CO17 Fire Engineering -II

Programme: B.Tech.

Branch/Specialisation: FT

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. How to put the fire out? **1**
(a) Cooling (b) Starvation (c) Smothering (d) All of these
- ii. To operate fire extinguisher, follow the- **1**
(a) RACE (b) PASS & RACE
(c) PASS (d) None of these
- iii. What was the chemical gas leaked from Union carbide plant? **1**
(a) MIC (b) MICA (c) MI (d) MIS
- iv. In which year Bhopal gas tragedy occurred- **1**
(a) 1983 (b) 1984 (c) 1985 (d) 1986
- v. What is U in UVCE? **1**
(a) Unconditioned (b) Unoccupied
(c) Unconfined (d) None of these
- vi. What is L in BLEVE? **1**
(a) Liquid (b) Legal (c) Lock (d) Lethal
- vii. What is the odour of LPG? **1**
(a) Odorless (b) Fruity smell
(c) Undesirable odour (d) Alcoholic odour
- viii. Which type of LPG is mostly produced in Indian refineries? **1**
(a) Grade A (b) Grade B (c) Grade C (d) Grade D
- ix. How often fire alarm should be tested? **1**
(a) Weekly (b) Yearly (c) Monthly (d) Hourly
- x. Who is responsible for carrying out fire risk assessments? **1**
(a) HSE inspector (b) Employees
(c) Fire rescue (d) Fire wardens

P.T.O.

- Q.2 i. What is turn table ladder? **2**
ii. What are the methods we can use for extinguishment of fire? **3**
iii. Where we are using crash fire tender? Also give a brief explanation about different types of CFT. **5**
- OR iv. Explain fire fighting vehicle and appliances. **5**
- Q.3 i. What is flash fire? **2**
ii. What are the different types of branches with their IS specifications. **8**
- OR iii. Explain in brief Bhopal gas tragedy. **8**
- Q.4 i. Discuss hazards present in confined space. **3**
ii. Differentiate between extension ladder & hook ladder with IS specification **7**
- OR iii. How BLEVE occurs? Explain with an example. **7**
- Q.5 i. What is JSA? **4**
ii. Discuss any case study related to refinery which can cause severe hazard. **6**
- OR iii. Explain SCBA with sketch. **6**
- Q.6 Attempt any two: **5**
i. What are the duties of safety officer in hazardous industries? **5**
ii. How can we make accident investigation report? **5**
iii. Differentiate between unsafe act & unsafe condition. **5**

Marking Scheme
FT3CO17 (T) Fire Engineering -II

Q.1	i)	d. all of these	1
	ii)	c. PASS	1
	iii)	a. MIC	1
	iv)	b. 1984	1
	v)	c. unconfined	1
	vi)	a. Liquid	1
	vii)	a. Odourless	1
	viii)	b. Grade	1
	ix)	a. Weekly	1
	x)	d. fire wardens	1
Q.2	i.	Definition of turntable	2
	ii.	3 methods of fire extinguishment	3
	iii.	Brief explanation of CFT	5
OR	iv.	About Fire fighting vehicles	3
		About appliances	2
Q.3	i.	Definition of flash fire	2
	ii.	6 types of branches- 1 Marks each one	6
		Diagram 2 Marks	2
OR	iii.	Case study of Bhopal Gas tragedy	8
Q.4	i.	3 types of hazards	3
	ii.	7 differences between extension & hook ladder	7
OR	iii.	Occurring of BLEVE 4 Marks	7
		Example 3 Marks	
Q.5	i.	4 steps of JSA	4
	ii.	Refinery fire case study	6
OR	iii.	Explanation of SCABA	4
		Sketch	2

Q.6

i.	Duties of safety officer at Least 5	5
ii.	Making accident report with 5 important points	5
iii.	5 difference unsolve act 2 conditions	5
