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Enrollment No.....



Faculty of Engineering

End Sem (Even) Examination May-2022

FT3EL02 Fire Safety Codes & Standardization

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.

- Q.1 i. The Indian Standard for Water Tender type A is- **1**
(a) IS 948 (b) IS 950 (c) IS 951 (d) IS 949
- ii. CFT stands for- **1**
(a) Control Fire Tender (b) Crash Flow Tender
(c) Crash Fire Tender (d) None of these
- iii. The Tender used for water replenishment in CFT is- **1**
(a) IS 948 (b) IS 950 (c) IS 6067 (d) IS 951
- iv. The Indian Standard for DCP Tender is- **1**
(a) IS 10460 (b) IS 10993 (c) IS 4989 (d) IS 10399
- v. The horizontal movement of a water monitor is- **1**
(a) 270 degree (b) 90 degree
(c) 360 degree (d) 135 degree
- vi. The minimum fire rating for the temporary structure is- **1**
(a) 5 minutes (b) 10 minutes
(c) 15 minutes (d) 20 minutes
- vii. NBC stands for- **1**
(a) New Building Codes (b) New Building Contracts
(c) National Building Cores (d) National Building Codes
- viii. The clearance area around the temporary structure shall not be less than- **1**
(a) 4.5 m (b) 5.4 m (c) 3.5 m (d) 5.3 m
- ix. Which of the following is one of the codes followed by the industries? **1**
(a) ACT (b) TAC (c) CAT (d) TCA

P.T.O.

- x. The testing procedure for delivery hoses is given in- **1**
(a) IS 944 (b) IS 903 (c) IS 636 (d) IS 957
- Q.2 i. What is the storage capacity of DCP tender? **2**
ii. Differentiate between IS 948 and IS 950. **3**
iii. Explain the water and foam storage system for small foam tenders. **5**
OR iv. Write the functional requirements for IS 944. **5**
- Q.3 i. Enlist the accessories for Emergency tenders. **2**
ii. Give detailed description of Salvage tenders. **8**
OR iii. Explain in detail the functional requirements and specifications for IS 10993. **8**
- Q.4 i. What documentations are required before starting the construction works? **2**
ii. What are the safety guidelines for safe building construction? **8**
OR iii. Write short note on NBC part-IV. **8**
- Q.5 i. What do you mean by Fire Ratings? Give its classification. **2**
ii. What are the general guidelines for construction of temporary structure? **8**
OR iii. Explain the functional requirements of IS 8758. **8**
- Q.6 Attempt any two:
i. What are the laws for fire prevention? **5**
ii. Difference between fire preventive and protective measures. **5**
iii. Which type of codes and standards used in industries? **5**

Marking Scheme
FT3EL02 Fire Safety Codes & Standardization

Q.1	i.	The Indian Standard for Water Tender type A is-	1
		(a) IS 948	
	ii.	CFT stands for-	1
		(c) Crash Fire Tender	
	iii.	The Tender used for water replenishment in CFT is-	1
		(c) IS 6067	
	iv.	The Indian Standard for DCP Tender is-	1
		(b) IS 10993	
	v.	The horizontal movement of a water monitor is-	1
		(c) 360 degree	
Q.2	vi.	The minimum fire rating for the temporary structure is-	1
		(b) 10 minutes	
	vii.	NBC stands for-	1
		(d) National Building Codes	
	viii.	The clearance area around the temporary structure shall not be less than-	1
		(a) 4.5 m	
	ix.	Which of the following is one of the codes followed by the industries?	1
		(b) TAC	
	x.	The testing procedure for delivery hoses is given in-	1
		(c) IS 636	
Q.2	i.	Storage capacity of DCP tender	2
	ii.	Any three differences between IS 948 and IS 950	3
		1 mark for each (1 mark * 3)	
	iii.	Water and foam storage system for small foam tenders	5
OR		1 mark for each (1 mark * 5)	
	iv.	Functional requirements for IS 944	5
		1 mark for each (1 mark * 5)	
Q.3	i.	Four accessories for Emergency tenders	2
		0.5 mark for each (0.5 mark * 4)	
	ii.	Salvage tenders	8

OR	iii.	Functional requirements of tender	3 marks	8
		Specifications of tender	3 marks	
		Bodywork and finish	2 marks	
		Functional requirements	4 marks	
Q.4	i.	Specifications for IS 10993	4 marks	2
		Two types of documentations are required		
		1 mark for each (1 mark * 2)		
		Sixteen points of safety guidelines for safe building construction	8	
OR	iii.	0.5 mark for each (0.5 mark * 16)		8
		NBC part-IV with dimensional with specification		
		As per explanation		
Q.5	i.	Definition of Fire Ratings	1 mark	2
		Its classification	1 mark	
		General guidelines for construction of temporary structure	8	
		1 mark for each (1 mark * 8)		
OR	iii.	Functional requirements of IS 8758	8	8
		1 mark for each (1 mark * 8)		
Q.6	i.	Attempt any two:		5
		Laws for fire prevention		
		10 rules for prevention 0.5 mark for each	(0.5 mark * 10)	
		Fire preventive	5	
		5 points 0.5 mark for each (0.5 mark * 5)	2.5 marks	
		Protective measures		
		5 points 0.5 mark for each (0.5 mark * 5)	2.5 marks	
		Type of codes and standards used in industries	5	
	iii.	Summary of 5 standards 1 mark for each	(1 mark * 5)	
