

Ship Fire Prevention and Control VTU CBCS Question Paper Set 2018



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Sixth Semester B.E. Degree Examination, June/July 2017 Ship Fire Prevention and Control

Max. Marks: 100 Time: 3 hrs.

> Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

Draw the vapour concentration and temperature diagram, indicating flammable region, UFL, LFL, flash point, non-flammable region and explain limits of inflammability in brief.

(15 Marks)

(05 Marks)

b. Write 2 advantages and disadvantages of following fire extinguisher.

i) water ii) CO2 iii) Foam iv) DCP.

(05 Marks)

a. Explain ionisation fire detection systems in brief with necessary sketches. (10 Marks) 2

b. List standard fire test.

(05 Marks) c. Explain electrical installation on board.

(10 Marks) a. Explain venting system onboard, with neat sketch.

b. Explain the following:

i) Fire doors

ii) Requirements for fighting fire.

(10 Marks)

Explain with neat sketch: 4

> CO₂ flooding system a.

b. Water mist suppression system.

(20 Marks)

PART - B

- Explain with sketches, construction, working of following portable extinguishers: 5
 - i) Gas pressurized water type

ii) Carbon dioxide type.

(14 Marks)

b. Explain international shore coupling.

(06 Marks)

Explain with labeled sketch inert gas system for tankers. 6 a.

(14 Marks)

Explain Fiuman's outfit, its use and care.

(06 Marks)

Prepare a muster list specifying duties of every crew members on a cargo ship for fire in 7 (20 Marks) accommodation.

- Explain the following in brief: 8
 - i) Fire precaution

ii) Fire drill.

(10 Marks)

- b. Explain role of following during occurrence of fire,
 - i) team leader
 - ii) bridge team
 - iii) emergency team
 - iv) support team
 - v) first aid/back up team.

(10 Marks)

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USN	Examination, Dec.2017/Jan.2018

Sixth Semester B.E. Degree Examination, Dec.2017/Jan.2018 **Ship Fire Prevention and Control**

Max. Marks:100

Time: 3	3 hrs. 📉			- mak nart
	Answer any FIVE full ques	tions selecting atleast	TWO questions from	eacn part.
Note:	Answer any FIVE full ques	mons, selecting		
		PART – A		
1 a.	Explain the following: i) Auto – ignition ii) S reactions. Explain the classification of F	Spontaneous combustion	iii) Fire damper	iv) Chain (08 Marks) (12 Marks)
b	. Explain the classification of F	TRE III uctan and 100 cr		A1 - sive the
2 a	- Astail 'Standard F	ire Test' procedure for each	ch class of fire division.	(12 Marks)
	standard size of the specimer Explain the requirements of i	materials used to enhance	fire integrity of bulkness	(08 Marks)
ł	Explain the requirements of			`
Z	 a. Explain the procedure for an i) Fixed CO₂ extinguishing b. Write a note on Fire door re- 	quirements.		(16 Marks) (04 Marks)
	b. Write a note on	re-illamin	and detectors with a neat	labeled sketch
4	Explain the construction and wo a. Ionisation Detector.		ig delectors	
	 b. Light – Scattering Detector c. Bi – metallic Detector. 			(20 Marks)
	d. Ultra – Violet Detector.			
ol identifications uppg	a. Draw a sectional view of a	<u>PART – B</u> mechanical foam type pol and operation of Fixed (rtable extinguisher wi. CO_2 Fire Fighting syst	(06 Marks) em, with a neat (14 Marks)
Iden	labeled sketch.			(08 Marks)
<u>5</u>	11.	1		(00 1.2222

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 - s)
 - Brief Foreman's outfit, its use and care. (12 Marks)
 - b. Explain Inert gas systems, with neat sketch for tankers.
 - (06 Marks) 7
 - a. Explain the methods use to prevention of fire in engine room. (10 Marks)
 - Explain in detail fire organization on ship. (04 Marks)
 - Explain the term hot permit.
 - (06 Marks) Explain International share coupling. (08 Marks) 8
 - b. Write the steps to be taken before entering tanks oil tankers pump room.
 - c. What is Static Electricity and what are possibilities of generation in ships? (06 Marks)

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Sixth Semester B.E. Degree Examination, June/July 2015 Ship Fire Prevention and Control

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

- í a. Explain Fire tetrahedron and methods of eliminating each sides of an tetrahedron. (10 Marks)
 - b. Write the classification of fire and its control measures. (10 Marks)
- a. Explain the requirements in respect of materials of construction and design of ships. 2
 - (10 Marks) b. Explain standard fire test. (05 Marks)
 - c. Explain the purpose of fire doors and fire zones. (05 Marks)
- a. Explain the effects of combustion products on life safety. (10 Marks) 3
 - b. Explain water mist Fire suppression system. (10 Marks)
- a. With a neat sketch, explain fixed CO₂ flooding system. (10 Marks) 4
 - (10 Marks) b. Explain any 2 fire detectors.

PART – B

- a. Explain with sketches, construction, working of following portable extinguishers. 5
- ii) Carbon dioxide type. i) Gas pressurized foam type (12 Marks)
 - b. Explain international shore coupling. (08 Marks)
- (12 Marks) a. Explain with labeled sketch lnert gas system for tankers. 6
 - (08 Marks) b. Explain Fireman's outfit, its use and care.
- Explain the weekly, monthly, annual inspection of fire extinguishing appliances. (12 Marks) 7
 - (08 Marks) b. What is an muster list? Explain its contents.
- a. Prepare a muster list specifying duties of every crew member on a Cargo ship for "Fire in 8 (15 Marks) Accommodation".
 - (05 Marks) b. Explain the use of fire control plan.

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Sixth Semester B.E. Degree Examination, June/July 2016 **Ship Fire Prevention and Control**

Max. Marks:100
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Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

		PART – A	
1	a.	Write the classification, sources of fire and its control measures.	(10 Marks)
	b.	Explain fire triangle.	(05 Marks)
	c.	Explain the limits of inflammability.	(05 Marks)
2	a.	Explain the purpose of fire doors and fire zones.	(05 Marks)
	b.	Explain standard fire test.	(05 Marks)
	c.	Explain the requirements in respect of materials of construction and design of sh	
			(10 Marks)
		OV.	
3	a.	Explain the effects of combustion products on life safety.	(10 Marks)
	b.	Explain Deck foam system for tankers.	(10 Marks)
4	a.	Explain any 2 types of detectors.	(10 Marks)
	b.	Explain the requirements of emergency fire pump.	(10 Marks)
		PART – B	
5		As per solar, explain the requirements of main fire pump.	(10 Marks)
	b.	Explain with proper dimensions international shore coupling. Write the app	lications of
		same.	(10 Marks)
6	a.	Explain bulk CO ₂ fixed fire fighting installation.	(10 Marks)
	b.	Write a note on fireman's outfit.	(10 Marks)
7	a.	Explain Fire organization onboard ships.	(10 Marks)
	b.	Write a note on breathing apparatus.	(10 Marks)
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8	a.	Explain the Safe working practices in order to prevent fire Onboard ships.	(12 Marks)
>	b.	Explain Fire control plan.	(08 Marks)