

Indian Maritime University
June 2022 End Semester Examinations
Programme Name: B.Sc., (NS)
Subject Name: Life Saving and Fire Fighting Appliances
Subject Code: UG21T4404
Max Marks: 70 Pass Marks: 35
Date – 07.06.2022
Duration – 03 Hours

**Note: Part A and Part B compulsory,
Part C – Answer any 5 out of 7 questions.**

Part A –Compulsory (10 X 01mark = 10 Marks)

Q no.1.

- i. What is the General Emergency Alarm signal onboard ship?
- a. One short, one long, One short & one long blast
 - b. Three prolong blast
 - c. Continuous ringing bell
 - d. Seven or more short blast followed by one prolong blast

(ii) If a person falls overboard then we have to immediately use

- a. SART
- b. EPIRB
- c. MOB Marker
- d. TPA

(iii) FPD is used on

- a. Lifeboats
- b. Liferaft
- c. Crane
- d. Derrick

(iv) Location of the Emergency fire pump is

- a. Near the Main fire pump
- b. Outside the space where main fire pump is located
- c. Forepeak store
- d. Fire locker

(v) The method of Oxygen removal in fire fighting known as

- a. Smothering
- b. Cooling
- c. Starvation

d. Inhibition

(vi) The type of Potable Extinguisher which is difficult to recharge onboard ship

- a. Water
- b. Foam
- c. CO2
- d. DCP

(vii) Lifejackets onboard are fitted with

- a. A whistle
- b. A self-igniting light
- c. Retro reflective tape
- d. All the above

(viii) EEBD's are used for

- a. Abandoning ship
- b. Escaping from a fire affected compartment
- c. To release the Lifeboats
- d. To inflate a Liferrafts

(ix) The longer an Oil fire is made to burn the

- a. Easier to Extinguish
- b. Less chance of re-ignition
- c. Less damage to the ship
- d. Harder to Extinguish

(x) Fire dampers are used for

- a. Cutting off the supply of air in the fire affected compartment.
- b. Cutting off fuel supply in the fire affected compartment.
- c. Cutting off Electrical supply in the fire affected compartment.
- d. Cutting off cargo operations in the fire affected compartment.

Part B – compulsory (5 X 2 Marks = 10 marks)

Q. No 2. Write short notes on the following

- (i) Lifebuoy
- (ii) TPA
- (iii) Fire Alarm
- (iv) Fire Drill

(v) Fire triangle

Part C – Answer any 5 out of 7 Questions (5 X 10 Marks = 50 marks)

Q NO.3.

- a. Enlist all the Pyrotechnics carried on ship and in the Lifeboats
- b. Discuss in detail about types of Lifeboats

(2x5 marks = 10 marks)

Q NO.4.

- a. Write down the step by step Procedure to inflate Liferrafts manually
- b. Explain the types and the advantages of Immersion suits.

(2x5 marks = 10 marks)

Q No.5.

- a. Discuss the methods of control of Class A, B and C fires
- b. Describe different types of portable fire extinguishers

(2x5 marks = 10 marks)

Q No.6

- a. Explain in brief the types of Fire Detectors used onboard ship
- b. Enlist all the Fire Fighting Equipments and Fire retardant fittings onboard ship

(2x5 marks = 10 marks)

Q No 7. Discuss the action required and practical techniques adopted for extinguishing fires in

- a. Cargo Hold fire
- b. Galley fire

(2x5 marks = 10 marks)

Q No 8. Discuss the action required and practical techniques adopted for extinguishing fires in

- a. Dry-dock fire
- b. Paint Locker fire

(2x5 marks = 10 marks)

Q No. 9.

- a. Discuss in detail on Fire organization onboard ship
- b. Describe the care and maintenance required for FFA equipment onboard ship.

(2x5 marks = 10 marks)
