

Indian Maritime University
(A Central University, Govt of India)

Supplementary Examinations – September/October 2024
Programme Name: UG11T4606

Semester: VI

Subject Code: UG11T4606

Subject Name: SHIPBOARD SAFETY MANAGEMENT

Date: 30.10.2024

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.
- (ii) Options, if any, are specified in respective sections.
- (iii) Clarity of thoughts and neatness in expression is expected in answers

Section A

Ten MCQs/Fill in the Blanks of 01 Mark each – Choose the correct answer as applicable.

1. LSA code as per SOLAS 74 is

A. Life saving appliance code	B. Lifeboats and appliance code
C. Local Shipping Association code	D. Long voyage Shipping code

2. Fire Safety System code is part of SOLAS 74 under

A. Chapter III of SOLAS	B. Chapter II -2 of SOLAS
C. Chapter IX of SOLAS	D. Chapter XI- 2 of SOLAS

3. SCBA sets should not be used for one of the following.

A. While entering enclosed space	B. While re-entering the space after fire fighting
C. While entering ballast tank full of water	D. During drills and training exercises

	on board.
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4. Life jacket should be constructed such that

A. It can be worn in only one way and It is comfortable to wear	B. It allows to jump from a height 4.5 m to the water without injury
C. None of the above	D. Both options A and B

5. Safety committee is to be formed

A. On board every ship	B. At shore office during DOC audit
C. At owner's office during Dry dock repairs	D. on tanker vessels while calling US ports

6. Chemical suit can be considered as

A. Personal Protective equipment	B. Fire fighting equipment
C. Engine room watchkeeping aid	D. None of the above

7. One of the following description suits to type A60 Bulkhead on ships

A. Bulkhead which prevents water ingress for 60 Min	B. bulkhead which is made of steel grade 606
C. Bulkhead which will restrict temperature rise in adjacent compartment upto 60 min	D. corrugated bulkhead in Cargo tanks

8. Designated muster point for command team while at sea

A. Near the lifeboat on deck	B. at the location of emergency
C. At the head office of technical manager	D. None of the above

9. Free board assignment is done to ships under one of the following types

A. Type 1 and type 2	B. passenger ship and cargo ship
C. type A and type B	D. flag of Convenience and flag of Inconvenience.

10. following is not considered as Fire fighting appliance

A. Fixed Co2 flooding system	B. Inert gas system
C. Hyper Mist system.	D. Deck Foam system

Section B

Five Questions of 02 Marks each

11. Explain the purpose of life raft located at the forward of the vessel,
12. Enlist the duties of a crew member in case of Abandon ship drill on a passenger vessel.
13. Advise ways in which crew can be motivated to participate fully in drills
14. Define following
 - A. margin line,
 - B. permeability of a space
15. Advise the emergency alarms for following situations and which systems are used to raise those alarms
 - A. Fire at paint store
 - B. Abandon ship

Section C

Seven Questions of 10 Marks each of which any 05 questions to be answered.

16. write short note on (5 Marks each)

- A. FFA training Manual
- B. Fire Control plan as per SOLAS 74 -
Ans -

17. Write short note on following (5 marks each)

- A. Self contained breathing apparatus used for fire fighting on ships
- B. Emergency escape breathing devices (EEBD)

18. Considering an Emergency of Fire in Purifier room of your vessel please answer in detail how the response shall be done, include at least following (10 Marks)

- A. Describe options for the division of the crew - in how many teams the crew shall be divided
- B. Explain the composition of the emergency teams in the above objective.
- C. Advise on duties of crew members not assigned to emergency teams
- D. Fire fighting equipment available on board for such fire
- E. use of boundary cooling

19. As preparation for survey Enlist at least 15 checks which you will include in the checklist for the inspection and maintenance of totally enclosed Lifeboat, life boat engine and life boat davit on board (10 Marks)

20. Draw up a drill and training schedule for fire drill and oil spill drill to be carried on board indicate the specified interval of each drill and training (10 Marks)

21. Write a short note on steps taken to take up rescue of a seafarer from Enclosed space(Void Space) in Engine room (10 Marks)

22. Describe the role of a shipboard safety committee, include at least following (10 Marks:)

- A. Who are the team members and justify their membership?
- B. Schedule of meetings
- C. What is the role of Master?
- D. What is the role of a safety officer?
- E. Means of improving the effectiveness in preventions of incident /accident

