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B.Tech. Degree VIII Semester Special Supplementary Examination in Marine Engineering September 2024

**19-208-0803 MARITIME STATUTORY REGULATIONS
(2019 Scheme)**

Time: 3 Hours

Maximum Marks: 60

Course Outcome

On successful completion of the course, the students will be able to:

- CO1: Gain knowledge regarding IMO and its structure, UNCLOS, SOLAS and other conventions regarding ship's safety.
- CO2: Understand different provisions of ISM code and ISPS code.
- CO3: Explain the pollutions related conventions, acts and regulations.
- CO4: Understand about ILO's Maritime Labour Conventions.
- CO5: Gain knowledge on National Legislations, Flag State and Port State Control.

Bloom's Taxonomy Levels (BL): L1 – Remember, L2 – Understand, L3 – Apply, L4 – Analyze, L5 – Evaluate, L6 – Create

PI – Programme Indicators

(Answer *ALL* questions)

(5 × 15 = 75)

	Marks	BL	CO	PI
I. (a) What is the existing procedure followed by IMO for adoption of various maritime conventions and their amendments? How is it different from earlier procedure? Substantiate your answer with examples.	7	L4	1	1.4.1
(b) List the titles of the various chapters listed in the SOLAS convention.	5	L1	1	1.4.1
(c) For provision of various radio communication equipment on board the ship, Chapter IV of SOLAS has divided and specified sea into four areas. What are these sea areas?	3	L3	1	1.4.1
OR				
II. (a) Describe the various sea zones specified under UNCLOS. What is meant by 'innocent passage'?	4	L1	1	1.4.1
(b) Describe the meaning of 'Archipelagic State' and 'Continental shelf'.	4	L4	1	1.4.1
(c) Write short notes on the following two conventions and their applicability (i) International tonnage convention. (ii) International Load line Convention.	7	L5	1	1.4.1
III. (a) Describe the functional requirements for a safety management system as specified by ISM code.	5	L2	2	1.4.1
(b) Describe the following as per ISM code and also substantiate your answer with examples. (i) Non-Conformity (ii) Major Non-Conformity.	6	L5	2	1.4.1
(c) Describe the salient difference between the security levels (1,2,3) specified in ISPS code.	4	L2	2	1.4.1

OR

(P.T.O.)

		Marks	BL	CO	PI
IV.	(a) What do you mean by 'Ship Managing Company'? Describe the significance of DOC and SMC as per ISM code.	6	L3	2	1.4.1
	(b) Designated Person Ashore (DPA) has an important role for implementation of safety management system. Substantiate your views by describing the functions of DPA.	4	L5	2	1.4.1
	(c) List the duties and responsibilities of Ship Security Officer (SSO) and Company Security Officer (CSO) specified by ISPS code.	5	L1	2	1.4.1
V.	(a) Describe the details of various equipments and arrangements provided on board ship and listed in the supplement to the IOPP certificate (MARPOL Annex I) and the criteria for the control of oil discharge from machinery space bilges and oil fuel tanks.	6	L3	3	1.4.1
	(b) State categorization of ships cargoes under Annex II, MARPOL 73/78.	4	L1	3	1.4.1
	(c) Describe the different types of equipment and methods permitted by MARPOL Annex-IV and the criteria for management of sewages generated on board ships.	5	L2	3	1.4.1
OR					
VI.	(a) List the major sources of emissions resulting air pollution from ships and the control measures detailed in MARPOL Annex-VI for obtaining International Air Pollution Prevention Certificate (IAPP).	5	L2	3	1.4.1
	(b) What do you mean by NOx Technical file, EEDI, EEXI, SEEMP as specified in MARPOL Annex-VI.	10	L2	3	1.4.1
VII.	(a) State the first four titles of MLC 2006 and briefly explain their salient purposes.	5	L2	4	1.4.1
	(b) Describe maximum hours of work and minimum hours of rest stipulated by MLC 2006.	5	L1	4	1.4.1
	(c) What is meant by DMLC? Who is responsible for its preparation and approval?	5	L3	4	1.4.1
OR					
VIII.	(a) Write short notes on the following (i) Port State. (ii) Flag State. (iii) Port state control. (iv) Flag state inspections.	8	L2	4	1.4.1
	(b) What do you mean by the international convention for the control and management of ship ballast water and sediments (Ballast water management or BWM convention and briefly explain regulation D1 and D2 and their applicability to ships.	7	L2	4	1.4.1
IX.	(a) Make a list of various statutory certificates required to be carried on board a bulk carrier ship of 30,000 GT as per various IMO conventions. Justify your answer.	8	L5	5	1.4.1
	(b) Describe various types of surveys commonly carried out on ships for classification of ships and for maintenance of class.	7	L3	5	1.4.1
OR					
X.	(a) In India, Directorate General of Shipping (DGS) deals with all matters concerning the Maritime Administration. Substantiate your answer by describing the organization structure and role of DGS and its allied offices.	10	L5	5	1.4.1
	(b) Write a short note on RPS (Recruitment and Placement of Seafarers) Rules and their requirements.	5	L2	5	1.4.1

Blooms' Taxonomy Level

L1 – 19.2%, L2 – 34.6%, L3 – 19.2%, L4 – 7.7%, L5 – 19.2%.
