

46203

INDIAN MARITIME UNIVERSITY
 (A Central University Government of India)
END SEMESTER EXAMINATION-June 2022
DIPLOMA IN NAUTICAL SCIENCE

Semester: II

CARGO HANDLING STOWAGE & SEAMANSHIP II (UD11T5203)

Max. Marks: 70
Pass Marks: 35

Date: 22.06.2022
Time: 2 hours

PART A

Q. 1.

(10X1 Mark)

		ANSWER
(i)	Cofferdams are	
A	used for citadels	
B	compartments used for separation between different types of compartments such as between cargo tanks and engine room	
C	extra tanks used as ballast tanks	
D	foundation tanks below the main engine	
(ii)	ISO Standard Container Length	
A	is usually 20 or 40 feet	
B	always 20 feet	
C	always 40 feet	
D	45 ' 6"	
(iii)	ESD stand for	
A	emergency safety devices	
B	emergency shut down	
C	emergency stop discharge	
D	emergency security device	
(iv)	Name the types of pumps used on a tanker	
A	centrifugal pump, eductors	
B	reciprocating pump, screw pump	
C	gear pump, deep well pump	
D	all the above	
(v)	Container ship is the	
A	rail borne link in the chain	
B	seaborne link in the chain	
C	airborne link in the chain	
D	all the above	
(vi)	Containers can be used to carry	
A	break-bulk cargo including oversize & heavy lifts	
B	bulk cargo	
C	Liquid cargo	
D	all the above	
(vii)	Anchor aweigh means	

A	The cable is at long stay	
B	Ship dragging anchor	
C	the anchor is no longer touching the sea bottom	
D	Fouled anchor	
(viii)	Combination ladder arrangement is required for pilot when	
A	Draft is less than 9 mtrs.	
B	Freeboard is more than 9 mtrs.	
C	the sea is bad	
D	The pilot demands	
(ix)	Hazards associated with enclosed spaces can be –	
A	Lack of oxygen	
B	Inadequate lighting	
C	Insufficient/no ventilation	
D	All above	
(x)	Which of the following is not a part of anchor	
A	swivel	
B	fluke	
C	Stud	
D	crown	

PART – B**Q. 2****(5X2 Marks)**

- What is lock out tag out (LOTO) procedure?
- What is hygroscopic cargo?
- Define angle of repose.
- What is a Mates Receipt?
- What is a Hot work Permit?

PART - C Answer any 5 out of 7 questions.

- Q. 3** a) Describe the inert gas system on tankers. **(2 x 5 = 10)**
b) What precautions are to be observed when rigging pilot ladder?
- Q. 4** a) Explain the Hazards of Petroleum. **(2 x 5 = 10)**
b) Explain the markings on the anchor cable.
- Q. 5** a) Name the types of containers. **(2 x 5 = 10)**
b) Explain Clear hawse and foul hawse when anchoring.
- Q. 6** a) List the types of cargo carried by multipurpose ships **(2 x 5 = 10)**
b) What are the safety precautions before entering battery room?
- Q. 7** a) Sketch and explain the bitter end securing arrangements of anchor

cable.

b) Explain Permit system, working aloft Permit. **(2 x 5 = 10)**

Q. 8 a) Write short notes on Bulk Loading and Unloading code. **(2 x 5 = 10)**

b) Explain Container seals.

Q. 9 a) How is the cargo hold cleaned after carrying coal to load grain?

b) Explain the duties of a cargo watch keeping officer on a general cargo ship. **(2 x 5 = 10)**

DNS 3