

**Indian Maritime University**  
( A Central University, Govt of India)  
B Sc (Nautical Science)  
June 2018 End Semester Examinations  
Semester-I  
UG21T3105 - General Ship Knowledge

Duration:3 Hrs

Max Marks:70 Marks

Date: 12.07.2018

Pass Marks:35 Marks

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**PART-A (Answer All Questions)**

**(1x10=10marks)**

- 1 a) What is the name of the longitudinal structural member at the bottom of the vessel, to which floors and frames are attached?
- b) What is the term used for the distance of the water line to top of Deck plating?
- c) Why WNA Load Line Mark is given to ships ?
- d) Membrane tanks are used in which type of ships?
- e) How the frames are numbered while constructing the ship ?
- f) What forms the watertight skin of the ship?
- g) What is name for the Vertical partitions in a ship arranged transversely before and after?
- h) Which part is fitted on weather deck to provide protection for personnel ?
- i) Those erections above the main deck which extended to ship side is known as?
- j) The international date line passes through which ocean?

**PART-B      12 X 5 = 60 marks**

**( Answer any five questions)**

- Q2 Explain the terms :- (i) Length Between Perpendicular  
(ii) Breadth Moulded  
(iii) Sheer of deck  
(iv) Tumble Home  
(v) Camber of deck  
(vi) Dead weight  
  
(12 Marks)
- Q3 Sketch and describe the load line markings on a Cargo ship. (12 Marks)
- Q4. (a) Explain Duct Keel (6 Marks)  
(b)What is (i) Hawse Pipe & (ii) Spurling Pipe (6 Marks)
- Q5. Sketch & Label Midship section of bulk carrier vessel. (12 Marks)
- Q6. Sketch and explain (i) Double bottom tank (12 Marks)  
(ii) Shell expansion Plan.
- Q7) (a) Sketch and describe a sounding pipe. (6 Marks)  
(b) Sketch ventilating arrangement for under deck space? (6 Marks)
- Q8. Write short notes :  
(i) Sheer strake & Garboard strake (6 Marks)  
(ii) Peak tanks (6 Marks)