

Question paper

Program: BTME / BSNT / MCEC / DNS / OTHERS

Form No. **FEX - 2**

Revn. 00

ID No. _____

Session: 2015-16 Year: II Semester: I Examination: **Mid-Semester II** Date: 04/11/15
Course: **Ship Structure & Construction** Course Code: METI ZC 291 Max. Marks: 40 Durn: 1¼ Hrs

Instructions:

1. Answer all questions. Marks carried by the question are given against each in brackets.
2. Diagrams are to be drawn only in pencil where required.
3. Answer Section A and B separately in the same answer book. Do not mix.

Section A

- | | Marks |
|--|-------|
| 1. Draw a neat sketch of transversely framed double bottom showing a section in way of a solid floor. Show all typical parts and features and label them | (8) |
| 2. Draw neat labeled sketch of a beam knee joining a hold frame to the deck beam. State the framing system you have used. | (4) |
| 3. What framing system will you prefer for a Ro Ro ship? Why? | (2) |
| 4. Why longitudinal framing system is preferred in ships longer than 120 m? | (2) |
| 5. What is the maximum permissible spacing between the two longitudinal girders forming duct keel. State the reason. | (2) |
| 6. State advantages of double bottom over single bottom. | (2) |

Section B

1. Draw the neat labeled diagram of typical Pillar construction showing following features in it. (4)
Deck Plate, Chock Plate, Doubler Plate, Wall Pipe, Central Girder. Write relationships between Pillar pipe Thickness, Doubler plate thickness and width of doubler plate.
2. Draw the neat sketch of Transom stern showing following members in it (6)
Longitudinal girder, solid floors, rudder trunk, steering flat, stern frame, solid round bar, breast hooks, Transom plate
3. Draw the neat labeled diagram of Chain Locker showing both top and Front views of it. Show following constructional features in it. (10)
Foot holes, Spurling pipe, Mud Box, Cope Stiffeners, Centerline Bulkhead, False Bottom, welded lugs, doubling plates.

***** End of Question Paper*****