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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Marine Engg.) (2013 Onwards) (Sem.-4)

BASIC SHIP STRUCTURE AND DESIGN-I

Subject Code : BTME-405

Paper ID : [72438]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. Answer briefly :

- a) What do you mean by pounding?
- b) What is bulb plate?
- c) What do you understand by beam knee?
- d) What is meant by deck?
- e) What are deck girders?
- f) What is the use of stiffeners?
- g) What is the significance of water tight floors?
- h) What is a non portable fire extinguisher?
- i) What is the function of a fire extinguisher?
- j) What do you mean by deep tanks?

SECTION-B

2. Explain moulded draught in reference to ship construction.
3. Explain the use of flange beam in ship construction.
4. Discuss the required welding tests used in ship construction.
5. Write a short note on deck plating.
6. Discuss the advantages and disadvantages of portable fire extinguisher.

SECTION-C

7. Describe the water tight opening through bulkheads for shafting with sketch.
8. Describe the construction and operation of fixed fire extinguisher.
9. Discuss the practical techniques adopted for extinguishing fires in boiler rooms.