

PHASE II – DESCRIPTIVE TYPE WRITTEN TEST

ASSISTANT ENGINEER (STRUCTURAL)

(Answer all questions. Total 6*5 = 30 marks)

1. Name different kinds of materials used for making ship structure. What are the different ship building steel grades used in construction of a ship? What is the major difference between these grades?

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2. What is destructive testing? Name few destructive testing methods for qualifying in Procedure Qualification Record and the reason for testing?

3. Briefly explain any three kinds of heat treatment methods used in ship building / repair.

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4. Briefly explain any four kinds of cutting methods used in ship building / repair with advantage / disadvantage for each method.

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5. What is meant by the terms :-

(a) NDT

(b) WPS

(c) IACS

(d) DUCTILITY

(e)TIG

6. Briefly explain any five Material Handling Equipments used in heavy engineering industries.

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