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NPTEL

Courses » **Hydrostatics and Stability**

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Unit 12 - Week 11

Week 11 Asignment

The due date for submitting this assignment has passed.
As per our records you have not submitted this **Due on 2018-10-17, 23:59 IST.**
assignment.

1) Questions 1-6 are from the following problem   **1 point**

A box vessel:length, 110m;breadth,12 m;depth,8 m is floating at draft 6 m. A midships compartment extending the full breadth of the vessel with length 9 m is bilged. The vessel has KG 4.8 m and is floating in salt water.

The bilged draft is

○ a) 7.5m

○ b) 6.5 m

○ d) 8.5 m

○ d) 2.8 m

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 6.5 m

2) The displacement of the vessel is   **1 point**

○ a) 7118 tonnes

○ b) 8118 tonnes

○ c) 2000 tonnes

○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 8118 tonnes

Assignment Solution

Interactive Session with Students

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○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 5 m

4) KM in the bilged condition is   **1 point**

   ○ a) 5.1 m

   ○ b) 1.2 m

   ○ c) 3.2 m

   ○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 5.1 m

5) The righting moment of the vessel at 1 degree heel in the intact condition is   **1 point**

   ○ a) 12.64 tonne m

   ○ b) 27.64 tonne m

   ○ c) 31.24 tonne m

   ○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 27.64 tonne m

6) The righting moment of the vessel at 1 degree heel in the flooded condition is   **1 point**

   ○ a) 52.02 tonne m

   ○ b) 12.34 tonne m

   ○ c) 27.01 tonne m

   ○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 52.02 tonne m

7) Question 7-10 are from the following problem;   **1 point**

A box vessel; length, 80 m; breadth, 6 m; depth, 4 m; is floating at draft 2 m, KG, 2.2 m. A midship centraling compartment length, 10 m; breadth, 4 m extending the full depth of the vessel is bilged.

   The bilged draft is

   ○ a) 0.18 m

   ○ b) 3.12 m

   ○ c) 2.18 m

   ○ d) 1.22 m

No, the answer is incorrect.

Score: 0

Accepted Answers:
c) 2.18 m

8) Intact GM of the vessel is   **1 point**

- ○ a) 0 m
- ○ b) 0.4 m
- ○ c) 0.2 m
- ○ d) 0.3 m

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) 0.3 m

9) Bilged GM of the vessel is   **1 point**

- ○ a) 0m
- ○ b) 0.34 m
- ○ c) 0.56 m
- ○ d) 0.22 m

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 0.34 m

10) Bilged KM of the vessel is   **1 point**

- ○ a) 2.54m
- ○ b) 3.23 m
- ○ c) 1.23 m
- ○ d) 4.34 m

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 2.54m

11) Questions 11-13 are from the following problem;   **1 point**

A box vessel length, 100 m; breadth, 9 m; depth, 6 m; is floating at draft 5 m. A full breadth midship compartment length 20 m contains cargo with stowage factor 1.2 m^3/tonne and density 2 tonne/m^3

Permeability of the compartment is

- ○ a) 0.78
- ○ b) 0.24
- ○ c) 0.42
- ○ d) 0.58

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) 0.58

12) The bilged draft is   **1 point**

    ○ a) 5.65 m

    ○ b) 7.23 m

    ○ c) 1.43 m

    ○ d) 1.89m

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 5.65 m

13) The second moment of area of the water plane is   **1 point**

    ○

    a) $2386m^4$

    ○

    b) $3200m^4$

    ○

    c) $5366m^4$

    ○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) $5366m^4$

14) In the two methods for calculating bilging, the draft after bilging by two methods   **1 point**

    ○ a) Always same

    ○ b) different

    ○ c) sometimes same

    ○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Always same

15) Does the GM remain same when calculated by the two methods   **1 point**

    ○ a) Sometimes

    ○ b) never

    ○ c) always

    ○ d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Sometimes

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