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Unit 11 - Week 10

Course outline

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- Lecture 28 : Dry Docking - II
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Week 10 Assignment

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2018-10-10, 23:59 IST.

1) Questions 1-12 are from the following problem *1 point*

The length of the assumed pontoon floating in sea water is L= 20 m, the beam, B=5 m, and the draught in intact condition, T_I=1.5 m. Let the vertical centre of gravity be KG_I=1.5 m.

The intact displacement volume is

a) 250 m^3

b)120 m^3

c) 150 m^3

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 150 m^3

2) The moment of inertia of the waterplane area about the centreline equals *1 point*

a) $208.33m^4$

b) $120.22m^4$

$190.32m^4$

Assignment Solution

Interactive Session with Students

3) The resulting metacentric radius is **1 point**

- a) 2.39 m
- b) 1.39 m
- c) 1.88 m
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 1.39 m

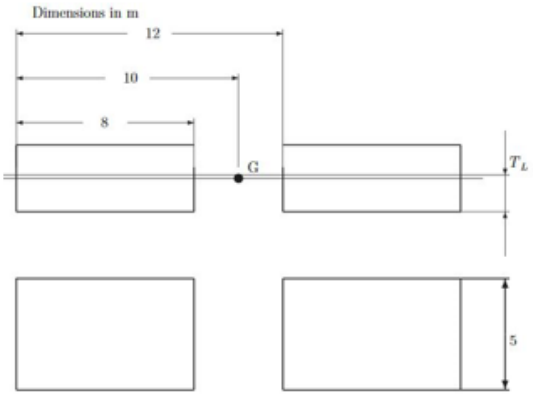
4) The metacentric height is **1 point**

- a) 0.43 m
- b) 0.81 m
- c) 0.64 m
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 0.64 m

5) **1 point**



A central compartment of length 4 m is flooded along the entire depth as shown in the above figure. In questions 5-8, use the method of lost buoyancy.

Moment of inertia of the waterplane now is

- a) $200m^4$
- b) $216.67m^4$
- c) $412.77m^4$
- d) $166.67m^4$

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) $166.67m^4$

6) The metacentric radius now is **1 point**

- a) 1.11m
- b) 2.11 m
- c) 1.41 m
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 1.11m

7) The metacentric height is **1 point**

- a) 0.14m
- b) 0.21 m
- c) 0.55 m
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 0.55 m

8) Righting moment according to lost buoyancy method is **1 point**

- a) 84.349 sinφ t m
- b) 74.213 sinφ t m
- c) 21.32 sinφ t m
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 84.349 sinφ t m

9) In questions 9-12 use the method of added weight **1 point**

The draft after flooding is

- a) 1.17 m
- b) 1.875 m
- c) 2.56 m
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 1.875 m

10) The volume of flooding water is **1 point**

- a) $37.5m^3$
- b) $27.5m^3$

c) $50m^3$

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) $37.5m^3$

11) The displacement volume of the flooded pontoon is **1 point**

a) $200.5m^3$

b) $275.4m^3$

c) $187.5m^3$

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) $187.5m^3$

12) The metacentric height is **1 point**

a) 0.44 m

b) 0.87 m

c) 1.11 m d

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 0.44 m

13) In which of the method should you include free surface effect? **1 point**

a) Lost buoyancy

b) Added weight

c) constant area

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Added weight

14) Vertical center of gravity shifts for which method? **1 point**

a) Lost buoyancy

b) Added weight

c) constant area

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Added weight

15) Volume of the compartment is lost in which method? ***1 point***

- a) Lost buoyancy
- b) Added weight
- c) constant area
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Lost buoyancy

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