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NPTEL

Unit 10 - Week 9

Week 9 Assignment

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment. **Due on 2018-10-03, 23:59 IST.**

1) The mean draft of a ship that is trimming is the draft at: ***1 point***

- a) Midship
- b) Center of gravity
- c) Center of floatation
- d) center of buoyancy

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) Center of floatation

2) Questions 2-5 are from the following problem; ***1 point***

A vessel is floating at drafts: forward=10.80m; aft=11.40 m and is to complete loading at drafts: forward=10.90m; aft=11.40m; TPC= 28 tonne/cm; length= 138 m; LCF=65 m from AP.

The initial mean draft of the vessel is

- a) 13.121 m
- b) 11.117 m
- c) 10.145 m
- d) 11.555 m

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 11.117 m

Assignment Solution

Interactive Session with Students

d) 12.122 m

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 11.164 m

4) Parallel sinkage in the vessel **1 point**

a) 2.5 cm
b) 3.2 cm
c) 4.7 cm
d) 2.9 cm

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 4.7 cm

5) The cargo to be loaded to get to the final draft is **1 point**

a) 120.5 tonne
b) 225.2 tonne
c) 131.6 tonne
d) 95.2 tonne

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 131.6 tonne

6) Questions 6-9 are from the following problem **1 point**

A vessel is floating at drafts forward=8.72 m, aft=9.00 m in water density= 1.025 tonne/m^3 She is to enter dock water density 1.004 tonne/m^3 . Find her drafts fore and aft in dock water, taking due account of the change of trim due to change of density. MCTC= 162 tonne m/cm. TPC= 29.8 tonne/cm; LCF=82 m forward of AP, LCB= 90 m forward of AP. Length= 170 m. Displacement= 27 000 tonnes.

The initial mean draft is

a) 8.865 m
b) 8.012 m
c) 9.122m
d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 8.865 m

7) The parallel sinkage is **1 point**

a) 0.11 m
b) 0.19 m
c) 0.32m
d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 0.19 m

8) Change in longitudinal center of buoyancy is **1 point**

- a) 0.223m
- b) 0.164 m
- c) 0.342 m
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 0.164 m

9) Change in trim is **1 point**

- a) 9.2 cm
- b) 27.32 cm
- c) 31.24 cm
- d) 12.32 cm

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 27.32 cm

10) The following is NOT a method of dry dock **1 point**

- a) Floating dock
- b) Excavated dock
- c) slip lift
- d) tow

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) tow

11) In a floating dry dock, the ship is docked by **1 point**

- a) Ballasting
- b) sloshing
- c) slamming
- d) riveting

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Ballasting

12) In a dry dock, as the draft keeps decreasing, the stability **1 point**

- a) Increases

b) decreases

c) remains same

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) decreases

13) During dry docking, the draft at which GM becomes zero is known as ***0 points***

a) Critical draft

b) slippage draft

c) initial draft

d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) none of the above

14) During dry docking, the weight of the ship is balanced by ***0 points***

a) Buoyancy alone

b) buoyancy and reaction from water

c) reaction from water and keel blocks

d) buoyancy and reaction from ground

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Buoyancy alone

15) When a ship moves from fresh water to sea water, it ***1 point***

a) Trims

b) Heels

c) slams

d) sink

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Trims

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