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NPTEL

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Courses » Hydrostatics and Stability

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Unit 5 - Week 4

Course outline

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● Lecture 10 : Inclining Experiment

● Lecture 11 : Hydrostatic Curves - I

● Lecture 12 : Hydrostatic Curves - II

○ Quiz : Week 4 Assignment

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Week 4 Assignment

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.   **Due on 2018-09-05, 23:59 IST.**

1) The final goal of the inclining test is to calculate   **1 point**

- ○ a) GM
- ○ b) BM
- ○ c) KB
- ○ d) KG

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) KG

2) (Questions 2-4) While loading a cargo of timber on deck it is noted that a sling of timber   **1 point**
weighing 8 tonnes, at Kg=12 m moved 16 m from one side of the ship to the other, inclines the vessel
1°. If the KM at this draft was 10.5 m;displacement of the ship 13000 tonnes.

GM after the timber is shifted is

- ○ a) 0
- ○ b) 0.564 m
- ○ c) 1.23m
- ○ d) 0.211m

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 0.564 m

3) KG after the timber is shifted   **1 point**

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Assignment Solution

Interactive Session with Students

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 9.936m

4) In the above problem, how much more deck cargo would it be safe to load at Kg=12m if the ***1 point*** GM was not to be less than 0.5 m.

○ a) 416 tonne

○ b) 510 tonne

○ c) 120tonne

○ d)349 tonne

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 416 tonne

5) Time period of unresisted roll in a ship is proportional to   ***1 point***

○ a) GM

○
b) $\frac{1}{\sqrt{GM}}$

○
c) $\sqrt{GM}$

○ d) KM

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) $\frac{1}{\sqrt{GM}}$

6) Center of floatation is the centroid of   ***1 point***

○ a) Displacement

○ b) underwater volume

○ c) waterplane area

○ d) sectional area

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) waterplane area

7) Transverse moment of inertia of a waterplane is taken about   ***1 point***

○ a) Aft perpendicular

○ b) Centerline

○ c) Midship

○ d) Longitudinal center of floatation

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Centerline

8) Longitudinal moment of inertia of a waterplane is taken about   *1 point*

○ a) Aft perpendicular

○ b) Centerline

○ c) keel

○ d) Longitudinal center of bouyancy

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Aft perpendicular

9) Transverse moment of inertia is proportional to   *1 point*

○ a) Half breadth

○

b)$\left(Half\ breadth\right)^2$

○

c) $\left(Half\ breadth\right)^3$

○ d) None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) $\left(Half\ breadth\right)^3$

10)Parallel sinkage of a ship by the adding of a weight can be calculated using   *1 point*

○ a) TPC

○ b) MCTC

○ c) LCB

○ d) None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) TPC

11)A floating body trims about it's   *1 point*

○ a) LCF

○ b) LCB

○ c) Midship

○ d) LCG

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) LCF

12)In hydrostatic-curves, the y-axis usually represents   *1 point*

○ a) Length

○ b) displacement

○ c) draft

     d) moment

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) draft

13) TPC is calculated as   **1 point**

     a) Aw/100

     b) $\frac{A_w \rho_w}{100}$

     c) $\frac{A_w \rho_w}{1000}$

     d) None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) $\frac{A_w \rho_w}{100}$

14) Moment required to change the trim by 1 cm is called   **1 point**

     a) MCTC

     b) TPC

     c) sinkage

     d) moment of inertia

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) MCTC

15) Barycentric axis is about the centre of   **1 point**

     a) Buoyancy

     b) gravity

     c) floatation

     d) moments

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) floatation

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