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

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

   a) 416 tonne  
   b) 510 tonne  
   c) 120 tonne  
   d) 349 tonne

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
b) 9.936m

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

   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

   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

   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
   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
   a) Half breadth
   b) $(\text{Half breadth})^2$
   c) $(\text{Half breadth})^3$
   d) None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   c) $(\text{Half breadth})^3$

10) Parallel sinkage of a ship by the adding of a weight can be calculated using
    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
    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
    a) Length
    b) displacement
    c) draft
    1 point

13) TPC is calculated as

- a) \( \frac{A_w \rho_w}{100} \)
- b) \( \frac{A_w \rho_w}{1000} \)
- c) 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

- 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

- a) Buoyancy
- b) gravity
- c) floatation
- d) moments

No, the answer is incorrect.
Score: 0
Accepted Answers:
c) floatation