Week 2 Assignment

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

Due on 2018-08-15, 23:59 IST.

1) Half breadth plan of a ship is the
   a) Side view
   b) top view
   c) front view
   d) None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
b) top view

2) Length from aft perpendicular to forward perpendicular is
   a) Lpp
   b) Lwl
   c) LOA
   d) None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
a) Lpp

3) Underwater volume = Length * Breadth * Draft * X where X is
   a) Waterplane area coefficient
   b) Block coefficient

Score: 0
4) By Archimedes principle, weight of floating body is
   a) Weight of liquid displaced
   b) weight of underwater volume
   c) total volume of ship * density of water
   d) none of the above

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   a) Weight of liquid displaced

5) Weight of liquid displaced by a floating body is
   a) Underwater volume * density of liquid
   b) underwater volume * density of material
   c) total volume * density of liquid
   d) none of the above

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   a) Underwater volume * density of liquid

6) A floating body has square cross-section of side 1m and KG always equal to 0.5 m. What is minimum KM for stability?
   a) 1m
   b) 0.5m
   c) 0.25 m
   d) cannot be calculated

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   b) 0.5m

7) At what draft does minimum KM occur?
   a) 0.408 m
   b) 0.892m
   c) 1.232m
   d) 2.223m

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   a) 0.408 m

8) Which of the following are numerical integration schemes?
   a) Simpson's rule
   b) Stein's rule
   c) 5/3 rule
   d) none of the above

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   a) Simpson's rule
No, the answer is incorrect.
Score: 0
Accepted Answers:
a) Simpson's rule

9) Second moment of area of a rectangle about its longitudinal axis is

\[ \frac{LB^3}{12} \]

a) \[ \frac{LB^3}{12} \]
b) \[ \frac{BL^3}{12} \]
c) \[ \frac{LB^3}{36} \]
d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
a) \[ \frac{LB^3}{12} \]

b) \[ \frac{B^3}{12L} \]
c) \[ \frac{B^3}{12T} \]
d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
c) \[ \frac{B^3}{12T} \]

11KB of the barge in question 10 would be;

a) T/4
b) T/2
c) B/2
d) B/4

No, the answer is incorrect.
Score: 0
Accepted Answers:
b) T/2

12 For the vessel in Question 10, the KM is minimum when

a) T=B
\[ T = \frac{L}{\sqrt{6}} \]

b)

\[ T = \frac{B}{\sqrt{3}} \]

c)

\[ T = \frac{B}{\sqrt{6}} \]

d)

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

d)

13 A box shaped vessel of length 200m, breadth 20 m and depth 10m is loaded so that the KG of the vessel is always equal to its draft. What is the maximum draft at which the vessel will be stable?

a) 20.45m
b) 10.23m
c) 8.16 m
d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
c) 8.16 m

14 In Question 13 what is the GM at this condition?

a) 2.3 m
b) 0
c) 1.2 m
d) none of the above

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

15 Which of the following is NOT a type of equilibrium?

a) Neutral
b) Stable
c) Unstable
d) initial

No, the answer is incorrect.
Score: 0
Accepted Answers:
d) initial