Week 11 Asignment

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2018-10-17, 23:59 IST.

1) Questions 1-6 are from the following problem

A box vessel: length, 110m; breadth, 12 m; depth, 8 m is floating at draft 6 m. A midships compartment extending the full breadth of the vessel with length 9 m is bilged. The vessel has KG 4.8 m and is floating in salt water.

The bilged draft is

- a) 7.5 m
- b) 6.5 m
- c) 8.5 m
- d) 2.8 m

No, the answer is incorrect.
Score: 0
Accepted Answers:
b) 6.5 m

2) The displacement of the vessel is

- a) 7118 tonnes
- b) 8118 tonnes
- c) 2000 tonnes
- d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
b) 8118 tonnes
4) KM in the bilged condition is
   a) 5.1 m  
   b) 1.2 m  
   c) 3.2 m  
   d) none of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   a) 5.1 m

5) The righting moment of the vessel at 1 degree heel in the intact condition is
   a) 12.64 tonne m  
   b) 27.64 tonne m  
   c) 31.24 tonne m  
   d) none of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   b) 27.64 tonne m

6) The righting moment of the vessel at 1 degree heel in the flooded condition is
   a) 52.02 tonne m  
   b) 12.34 tonne m  
   c) 27.01 tonne m  
   d) none of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   a) 52.02 tonne m

7) Question 7-10 are from the following problem;

A box vessel; length, 80 m; breadth, 6 m; depth, 4 m; is floating at draft 2 m, KG, 2.2 m. A midship centraling compartment length, 10 m; breadth, 4 m extending the full depth of the vessel is bilged.

The bilged draft is
   a) 0.18 m  
   b) 3.12 m  
   c) 2.18 m  
   d) 1.22 m
   No, the answer is incorrect.
Questions 11-13 are from the following problem:

A box vessel length, 100 m; breadth, 9 m; depth, 6 m; is floating at draft 5 m. A full breadth midship compartment length 20 m contains cargo with stowage factor 1.2 $m^3$/tonne and density 2 tonne/$m^3$.
12. The bilged draft is
   a) 5.65 m
   b) 7.23 m
   c) 1.43 m
   d) 1.89 m

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   a) 5.65 m

13. The second moment of area of the water plane is
   a) $2386 \text{ m}^4$
   b) $3200 \text{ m}^4$
   c) $5366 \text{ m}^4$
   d) none of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   c) $5366 \text{ m}^4$

14. In the two methods for calculating bilging, the draft after bilging by two methods
   a) Always same
   b) different
   c) sometimes same
   d) none of the above

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

15. Does the GM remain same when calculated by the two methods
   a) Sometimes
   b) never
   c) always
   d) none of the above

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