Week 6 Assignment

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

Due on 2018-09-12, 00:00 IST.

1) Which of the following does NOT cause heeling of the ship?  
   - a) Wind  
   - b) turning  
   - c) shifting of weights  
   - d) trimming  

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

2) The resistance from water against the heeling due to ship can be assumed to act at  
   - a) Center of gravity  
   - b) center of buoyancy  
   - c) midship  
   - d) none of the above  

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

3) If the ship heels an angle $\phi$ due to wind, the heeling lever is proportional to  
   - a) $\cos \phi$  

   Score: 0

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- d) trimming  
- b) center of buoyancy
4) When the ship is turning a circle, the centrifugal force developed can be assumed to act at

- a) Center of gravity
- b) center of buoyancy
- c) midship
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
- a) Center of gravity

5) If the ship heels an angle $\varphi$ while turning a circle, the heeling lever is proportional to

- a) $\cos \varphi$
- b) $\cos^2 \varphi$
- c) $\tan \varphi$
- d) constant

No, the answer is incorrect.
Score: 0

Accepted Answers:
- a) $\cos \varphi$

6) When a ship turns with a linear speed $V$, in a circle of radius $R_{TC}$, a centrifugal force, $F_{TC}$, develops. $F_{TC} =$

- a) $\Delta \frac{V^2}{R_{TC}}$
- b) $\Delta \frac{V}{R_{TC}}$
- c) $\Delta g$
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
- a) $\Delta \frac{V^2}{R_{TC}}$

7) A ship heels that an angle $\varphi$ such that area under the heeling arm curve is equal to

- a) Sail area
- b) area under righting arm curve
- c) wetted surface area
- d) none of the

No, the answer is incorrect.
Score: 0

Accepted Answers:
8) At the position of stable equilibrium, which of the following is minimum
   - a) Potential energy
   - b) kinetic energy
   - c) pressure
   - d) momentum

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

9) In a GZ curve with the wind heeling arm superposed, how many points of equilibrium are there?
   - a) Three
   - b) one
   - c) two
   - d) four

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

10) In Question 9, the first point of equilibrium is
    - a) Stable
    - b) unstable
    - c) neutral
    - d) all the above

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

11) Pressure corresponding to a wind speed of 70 knots assuming an aerodynamic resistance coefficient equal to 1.2, and an air density equal to 1.27 kg/m$^3$ is
    - a) 128.99
    - b) 326.26
    - c) 988
    - d) none of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   c) 988

12) Which of the following does NOT shift due to grains shifting?
    - a) KG
13. In intact stability requirements, it is assumed that the heel due to shift of grains shall not be greater than
- a) 12 degrees
- b) 23 degrees
- c) 19 degrees
- d) 0 degree

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a) 12 degrees

14. Angle of heel at which openings in hull, superstructures or deck houses, which cannot be closed weather tight immerse is called
- a) Angle of flooding
- b) Angle of heeling
- c) critical angle
- d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a) Angle of flooding

15. The heeling moment associated with shift of grains in a ship is called
- a) volumetric heeling moment
- b) righting moment
- c) light ship heeling moment
- d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a) volumetric heeling moment