ourses » Hydrosta	ttics and Stability					
Jnit 7 - We	Announcements	Course	Ask a Question	Progress	Mentor	FAQ
Course outline	Week 6 Ass	ignme	nt			
How to access the portal	The due date for submit As per our records you assignment.			ue on 2018	-09-12, 00	:00 IST
Week 1	1) Which of the following	does NOT cau	use heeling of the ship?)		1 poi
Week 2	a) Wind					
Week 3	b) turning					
Week 4	c) shifting of weig	Ihts				
Week 5	 d) trimming No, the answer is incomplete 	rrect.				
Week 6	Score: 0					
 Lecture 16 : Healing Moment - I 	Accepted Answers: d) trimming 2) The resistance from wa	ater against th	e heeling due to ship c	an be assumed	to act at	1 poi
 Lecture 17 : Healing 	a) Center of grav					
Moment - II	b) center of buoy	ancy				
 Lecture 18 : Healing Moment - III 	c) midshipd) none of the ab	ove				
Quiz : Week 6 Assignment	No, the answer is inco Score: 0	rrect.				
Feedback for Week 6	Accepted Answers: b) center of buoyancy					
Week 7	3) If the ship heels an ang	gle $arphi$ due to w	vind, the heeling lever is	s proportional to	D	1 poi
Week 8	•					
Week 9	a) $cos arphi$					



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Hydrostatics and Stability - - Unit 7 - Week 6

Videos	Score: 0	
Assignment	Accepted Answers:	
Solution	b) $cos^2 arphi$	
Interactive	4) When the ship is turning a circle, the centrifugal force developed can be assumed to act at	1 point
Session with Students	a) Center of gravity	
Stutents	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 φ while turning a circle, the heeling lever is proportional to	1 point
		1 point
	a) cos φ	
	b) $cos^2 \phi$	
	\odot c) tan φ	
	\bigcirc 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} =	1 point
	a) $\Delta rac{V^2}{R_{TC}}$	
	b) $\Delta rac{V}{R_{TC}}$	
	c) Δg	
	d) none of the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	a) $\Delta rac{V^2}{R_{TC}}$	
	7) A ship heels that an angle of ϕ such that area under the heeling arm curve is equal to	1 point
	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:	

b) area under righting arm curve	
8) At the position of stable equilibrium, which of the following is minimum	1 point
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?	1 point
a) Three	
b) one	
C) two	
O d) four	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
c) two	
10)n Question 9, the first point of equilibrium is	1 point
a) Stable	
b) unstable	
C) neutral	
d) all the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: a) Stable	
11Pressure 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	1 point
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?	1 point
🔘 a) KG	

🔘 b) GM	
🔘 с) КМ	
d) all the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: c) KM	
13)n intact stability requirements, it is assumed that the heel due to shift of grains shall not be 1 greater than	l point
a) 12 degrees	
b) 23 degrees	
C) 19 degrees	
d) 0 degree	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: a) 12 degrees	
	l point
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	. point
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	
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