**Assignment 2**

1. Half breadth plan of a ship is the
2. Side view b) top view c)front view d) None of the above
3. Length from aft perpendicular to forward perpendicular is
4. Lpp b)Lwl c) LOA d) None of the above
5. Underwater volume = L ength \* Breadth \* Draft \* X where X is
6. Waterplane area coefficient b) Block coefficient c) density d) none of the above
7. By Archimedes principle, weight of floating body is
8. Weight of liquid displaced b) weight of underwater volume c) total volume of ship \* density of water d) none of the above
9. Weight of liquid displaced by a floating body is
10. Underwater volume \* density of liquid b) underwatervolume \* density of material c) total volume \* density of liquid d) none of the above
11. A floating body has square cross-section of side 1m and KG always equal to 0.5 m. What is minimum KM for stability?
12. 1m b) 0.5m c)0.25 m d)cannot be calculated
13. At what draft does minimum KM occur?
14. 0.408 m b)0.892m c)1.232m d) 2.223m
15. Which of the following are numerical integration schemes?
16. Simpson’s rule b) Stein’s rule c) 5/3 rule d) none of the above
17. Second moment of area of a rectangle about its longitudinal axis is
18.  b)  c)  d) none of the above
19. BM of a box-shaped barge of length L, breadth B and draft T is;
20.  b)  c)  d) none of the above
21. KB of the barge in question 10 would be;
22. T/4 b) T/2 c)B/2 d) B/4
23. For the vessel in Question 10, the KM is minimum when
24. T=B b)  c)  d) 
25. 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?
26. 20.45m b) 10.23m c) 8.16 m d) none of the above
27. In Question 13 what is the GM at this condition?
28. 2.3 m b) 0 c) 1.2 m d) none of the above

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

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