

[Time: 2:30 Hours]

[Marks:75]

Please check whether you have got the right question paper.

N.B: ALL QUESTIONS ARE COMPULSORY AND CARRY 15 MARKS EACH.

- Q1. Find the time at which there will be 7 meters of water in the afternoon on 27th April on a shoal patch, off Darwin where the chart shows 3 meters sounding. The extracts from A.T.T as follows: (15)

TIME	HEIGHTS (M)
0550	6.6 M
1157	2.8 M
1743	6.3 M

OR

- Q1. Find the depth of water, a vessel drawing 6.4 mtrs will have under her keel when crossing 5.4 meters patch at Vancouver harbor on 12th May at 1400 Hrs standard time. The extracts from A.T.T are as follows: (15)

TIME	HEIGHTS (M)
0445	4.4 M
1120	0.3 M
1810	4.3 M
2315	3.0 M

- Q2. Write short notes on sailing directions & list of lights & fog signals. (15)

OR

- Q2. List the contents of the admiralty list of Radio Signals Volumes. (15)

- Q3. What are the Distress Signals as per Annex IV (15)

OR

- Q3. What are the cardinal marks? Sketch & explain south cardinal marks (15)

- Q4. What are the precautions will you take while approaching T.S.S transiting and coming Out of T.S.S (15)

OR

- Q4. What precaution will you take while approaching dense fog and conduct of vessel in restricted visibilities? (15)

- Q5. Find the earliest time after first high water on 13th Sep at Darwin (AUS), a vessel can cross bellow the bridge if her draft is 14 mtrs and height of mast is 50 mtrs with a minimum clearance of 1.5 mtrs between mast and bridge. The charted height of bridge is 35 mtrs. MHWS at Darwin: 6.9 mtrs. Extracts from A.T.T (15)

TIME	HEIGHTS (M)
0245	1.9 M
0830	6.7 M
1515	0.8 M
2128	6.5 M

OR

- Q5. Explain conduct of vessel in restricted visibilities. (15)
