

GANPAT UNIVERSITY

B. Tech. Semester: VI Semester Marine Engineering

Regular Examination April – June 2015

2MR605 Naval Architecture II

Time: 3 Hours

Total Marks: 70

- Instruction: (1) Attempt all Questions.
(2) Assume suitable data if necessary.
(3) Figure to right indicates full Marks.
(4) Start new Questions on New Page.

Section – I

Que.–1) Explain Rolling, Pitching, heaving & Yawing with diagram? 12

OR

Que.–1) Describe irregular wave pattern, wave spectra and wave amplitude? 12

Que.–2) Explain law of similitude? How the propeller model tests are done? 11

OR

Que.–2) Describe angle of heel when turning with the help of rudder? 11

Que.–3) Describe Geometry of Screw Propeller? What do mean by cavitations? 12

Section – II

Que.–4) Explain efficiency of hull & propeller? What is torque coefficient of propeller? 11

OR

Que.–4) Show with diagram what do you understand by Propeller theory? 11

Que.–5) Describe the following terms : 12

- a) Slip b) Leading edge c) Propeller boss

OR

Que.–5) Describe the following terms : 12

- a) Trailing edge b) Ventilation c) Propeller hub

Que.–6) Draw a neat diagram to explain what is pitch of propeller and how do you 12

Calculate the pitch of propeller?

*****END OF PAPER*****