

GANPAT UNIVERSITY

B. Tech. Semester: VI Semester Marine Engineering

Regular Examination April – June 2017

2MR605 Naval Architecture II

Time: 3 Hours

Total Marks: 60

- Instruction: (1) Attempt all Questions.
(2) Assume suitable data if necessary.
(3) Figure to right indicates full Marks.
(4) Question: 3 in Section 1 and Question 6 in section 2 are compulsory
(5) Start new Questions on New Page.

Section – I

- Que.-1) Explain with diagram six degrees of freedom? Explain stresses caused by it? 10
OR
Que.-1) Describe wave with neat diagram, Explain wave spectra and wave amplitude? 10
Que.-2) What do you understand by law of similitude? How the propeller model tests are done? 10
OR
Que.-2) Describe What do you understand by propeller geometry? Draw a neat diagram of propeller with each parts explained? 10
Que.-3) Draw a neat diagram explain what is pitch and How to calculate pitch of propeller? 10

Section – II

- Que.-4) Explain S.F and B.M? list cautions needed to avoid same being exceeded? 10
OR
Que.-4) How does rudder work? Differentiate types of rudder? Why rudder is located at stern? 10
Que.-5) Describe the following terms : (use diagram to explain) 10
a) Real slip b) Cavitation c) Heaving
OR
Que.-5) Describe the following terms : (use diagram to explain) 10
a) Sagging b) shear force c) propeller
Que.-6) Describe angle of heel when turning with the help of rudder? what will happen if you reduce helm suddenly to midships or on to other side (Diagram must)? 10

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