

**GANPAT UNIVERSITY****B. Tech. Semester: VI Semester Marine Engineering****Regular Examination April – June 2016****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) Question: 3 in Section 1 and Question 6 in section 2 are compulsory

(5) Start new Questions on New Page.

**Section – I**

Que.-1) What do you mean by Rolling, Pitching, heaving &amp; Yawing, Explain with diagram? 12

OR

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

Que.-2) What do you understand by 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? Define and explain cavitation? 12

**Section – II**

Que.-4) Explain efficiency of hull &amp; propeller? Define torque coefficient of propeller? 11

OR

Que.-4) Different types of Rudder with neat diagram showing each parts of rudder? 11

Que.-5) Describe the following terms : 12

a) Slip                      b) Ventilation                      c) Pounding

OR

Que.-5) Describe the following terms : 12

a) Trailing edge                      b) Propeller boss                      c) Surging

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

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