Student Exam No.

GANPAT UNIVERSITY

B. Tech. Semester: VI -Marine Engineering

Regular Examination April - June 2015

2MR604- Marine Auxiliary Machines II Total Marks: 70 Time: 3 Hours Instructions: (1) Attempt all questions. (2) Assume suitable data if necessary. (3) Figure to the right indicates full Marks. (4) Start new question on new page. Section - I 6 Differentiate between detuning and damping. 0.1 (a) 6 Sketch and describe an oily water separator with coalescer. What are the sources of noise in a Ship? What are the methods of 6 (a) Q. 1 controlling them? Define the three standards for sewage effluent quality, discharged from the 6 ship. 6 What is Hydraulic Accumulators? Explain any one type with sketch. Q. 2 (a) Explain the term dBA. Give the various dB values of general sounds found 6 (b) in ER. OR Sketch and describe lip seal arrangement of stern tube sealing. What is 12 0.2 the reason for special cross section of the seal ring?

Q. 3	Why variable displacement pumps are required for steering power drive?	11	
	Sketch and describe one of such pump.		
	Section – II		
Q. 4	Differentiate any two of following:	12	
	1. Follow-up and Non follow-up Steering		
	2. Normal Coupling bolt and Pilgrim Type Coupling Bolt		
	3. Keyed Propeller and Keyless Propeller		
Q. 4	OR (a) Explain the working principle of Hydraulic jack. Enlist its uses on	6	
	board. (b) What is hunting gear? Sketch and describe.	6	
Q. 5	(a) Why the Stern Tube Bearings are of such a length? What is the use of	6	
	Poker gauge? (b) What are the preparations required for dry-docking a ship? What	6	
	precautions will you take before the flooding operation in dry-		
	docks?		
Q. 5	(a) How many tanks are involved in the Stern Tube sealing and lubrication arrangement? How the draught of ship affects number of	6	
	A Must Counting method of joining shafts.	6	
	(b) Sketch and describe Multi Coupling method of Johnson Sketch and describe 4 Ram Steering System. What is fail-safe system?	11	
Q. 6	Sketch and describe 4 Kain Steeling System. What is a same of the		

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