

GANPAT UNIVERSITY
B.TECH SEM.III MARINE ENGINEERING
SEMESTER END EXAMINATION DECEMBER-2013
02MR-302 Seamanship and Survival at Sea

Time-3 HOURS

Total Marks : 70

- INSTRUCTIONS: (1) Attempt all questions. Question 2, Question 5 and Question 6 are compulsory
- (2) Assume suitable data if necessary
 - (3) Figures to the right indicate full marks
 - (4) Start New Question on New Page
 - (5) Total Pages : 4

Section-I

Q-1: Describe procedure for launching of Life Boat and give at least 6 important contents of Life Boat (Equipments)..... (12)

OR

Q-1: What do you mean by Muster Station? What data's will be available in Muster List ? Please give at least 6 locations where you will find the Muster List..... (12)

Q-2 Attempt any two: (12)

a) Explain following Terms:.....6

- i) Weighing Anchor
- ii) Dropping Anchor
- iii) Chain Locker

b) Define following terms :.....6

- i) Mooring Buoys
- ii) Navigation
- iii) Great Circle

- c) What does E.P.I.R.B stand for ? What is its purpose? What will you check before throwing it in water6
- d) What is Barometer and name two types of Barometers ? Describe working of Barometer ...6

Q-3 Attempt following - Sub Section (a) is Compulsory, Attempt any one from (b) and (c) (11)

- a) Explain Safe System of Work? Explain Enclosed Space Entry Permit and Checklist.....6
- b) How Many Life Boat and Life Rafts are provided on a cargo ship? What is the length of the Life Line of a Life Buoy? How Many Walkie Talkie Sets are carried? When are they used ??.....5
- c) Draw labelled diagram of Anchor and Define Anchor.....5

OR

Q-3 Attempt following - Sub Section (a) is Compulsory, Attempt any one from (b) and (c) (11)

- a) What is mooring ? Describe Various Mooring Patterns.....6
- b) List the precautions to be taken onboard in bad weather with particular attention to Steering Control and Machinery Spaces.....5
- c) What do you mean by Vertical Positioning of Lights? How many Mast Lights are placed on board....5

Section-II

Q-4: Attempt any two

(12)

- a) Explain Marpol and Name its Annexes.....6
- b) Describe Equipments to be used for Lashing of Cargo.....6
- c) Explain following terms.....6
 - i) Machinery Space Alarm
 - ii) General Alarm : When will it be sounded
 - iii) Abandon Ship Alarm
 - iv) Ship Security Alert System

OR

Q-4: Attempt any two

(12)

- a) Describe in Brief the following6
 - i) ISPS Code
 - ii) SOLAS
 - iii) STCW Code
- b) Define Following Terms.....6
 - i) Equator
 - ii) Great Circle
 - iii) Meridians
 - iv) Parallel of Latitude
- c) Explain in Brief:.....6
 - i) Types of Pyro techniques available on board
 - ii) Give 4 types of distress signals.

Q-5 Attempt any three

(12)

- a) Give full forms of the following.....4
 - i) IMDG
 - ii) IOPP (Certificate)
 - iii) EIAPP (Certificate)
 - iv) ISPP (Certificate)
- b) Give full form of the following :.....4
 - i) IMO

ii) STCW

iii) IACS

iv) SPM

c) Give full forms of the following :.....4

i) LSA

ii) MOB

iii) SART

iv) GMT

d) Give full forms of the following :.....4

i) SSAS

ii) CALM

iii) PSC

iv) LTA

Q-6 Attempt following - Sub Section (a) is Compulsory, Attempt any one from (b) and (c) (11)

a) Describe Magnetic Compass and what do you understand by Cardinal Points ?.....6

b) Explain following terms (any two).....5

i) Celestial Navigation and Terrestrial Navigation

ii) Stern Lights

iii) Man Overboard Marker

iv) Gap Closing With respect to STCW

c) Explain in brief :5

i) Sextant

ii) Echo Sounder

END OF PAPER