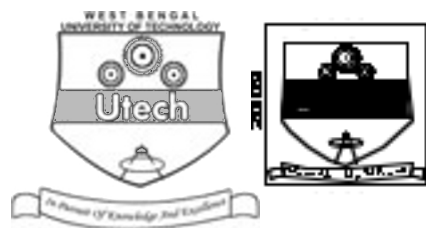


# VOYAGE PLANNING & COLLISION PREVENTION – I ( SEMESTER - 2 )

CS / BNS / SEM-2 / BNS-203 / 09



1. ....  
Signature of Invigilator

2. ....  
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the  
Candidate

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CS / BNS / SEM-2 / BNS-203 / 09

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

VOYAGE PLANNING & COLLISION PREVENTION – I ( SEMESTER - 2 )

Time : 3 Hours ]

[ Full Marks : 70

## INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Objective type. You have to answer the questions in the space provided marked '**Answer Sheet**'.  
b) For **Groups – B & C** you have to answer the questions in the space provided marked '**Answer Sheet**'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

**No additional sheets are to be used and no loose paper will be provided**

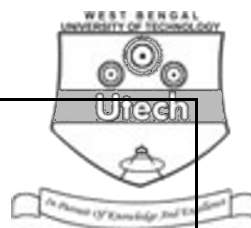
## FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

Group – A								Group – B				Group – C				Total Marks	Examiner's Signature
Question Number																	
Marks Obtained																	

.....  
Head-Examiner/Co-Ordinator/Scrutineer

2296 ( 09/06 )



**DO NOT WRITE ON THIS PAGE**



**ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009**  
**VOYAGE PLANNING & COLLISION PREVENTION – I**  
**SEMESTER - 2**



Time : 3 Hours ]

[ Full Marks : 70

**GROUP – A**  
**( Objective Type Questions )**

1. Answer *all* questions :

10 × 1 = 10

A) Answer very briefly :

- i) What do you mean by the term “Wing-in-Ground ( WIG ) craft” ?
- ii) Explain natural scale of the chart.
- iii) Define dead reckoning position.
- iv) What is meant by Geographical Range of a Light ?
- v) Explain the term “Vessel not under command”.
- vi) Define the term “Vessel engaged in fishing”.

B) Fill in the blanks :

- vii) All soundings on the chart are marked with reference to .....

C) Answer very briefly :

- viii) What is the significance of ‘Doubling the angle at the Bow’ ?
- ix) Explain the word 'Underway'.
- x) Which publication is used for identification of charts required for voyage ?



4

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.



3 × 5 = 15

2. Explain how you will determine risk of collision.
3. What points you keep in mind while using navigational charts ?
4. Define geographical ranges. Present luminous range and nominal range.
5. How will you navigate VSL in narrow channel as per International Collision Regulations ?

**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.

3 × 15 = 45

6. What are the factors to be considered for determining safe speed by vessels with and without operational radar ? 15
7.
  - a) How will you differentiate between leading light and transit bearing light ? 5
  - b) Discuss on various characteristics to identify a light. 5
  - c) Define lighthouse, beacon and buoy. How do they help in navigation ? 5
8.
  - a) Explain the conduct of vessels in restricted visibility.
  - b) What fog signals will be given by power driven VSLS underway ?
    - i) Not making way through water
    - ii) Making way through water. 15



9. a) Describe the following :

i) Decca charts

ii) Loran charts

iii) Routing charts.



b) What is the purpose of chart catalogue ?

3

c) Which charts are used for great circle sailing and why ?

3

d) What is the reason for using the nearest latitude scale for measuring the distance ?

3

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END