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Invigilator's Signature :	

# CS/BNS/SEM-5/BNS-505/2012-13

# 2012

# **ENVIRONMENTAL SCIENCE-III**

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

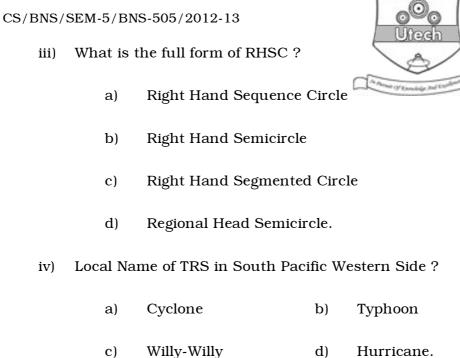
#### **GROUP - A**

### (Objective Type Questions)

- 1. Choose the correct alternatives for the following :  $10 \times 1 = 10$ 
  - A. i) WMO stands for

- $5 \times 1$
- a) World Meteorological Observer
  - b) World Meteorological Orientation
  - c) World Meteorological Organization
  - d) World Meteorology Organization.
- ii) Which one of the following is not a frontal sone?
  - a) Polar frontal zone
  - b) Arctic frontal zone
  - c) Intertropical frontal zone
  - d) Oceanic frontal zone.

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- v) The MARPOL convention was adopted on
  - 12th November, 1973 a)
  - 2nd November, 1973 b)
  - 12th November, 1978 c)
  - d) 2nd November, 1978.
- Answer the following questions : В.

 $5 \times 1$ 

- What is Frontolysis?
- b) What is dangerous semicircle?
- What is VOF? c)
- d) What is path of TRS?
- What is Meteorological Log Book? e)

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#### **GROUP - B**

## (Short Answer Type Questions)

Answer any three of the following.  $3 \times 5 = 15$ 

- 2. What is Air Mass? What are the main classifications of Air Mass?
- 3. What is Frontogenesis? What is occlusion?
- 4. What are the main classifications of ships regarding weather reporting system? Briefly explain.
- 5. What is the principle of mercury barometer? Why mercury is used in barometer?
- What is weather routing of ships? What are the basic 6. parameters behind this?

#### GROUP - C

## (Long Answer Type Questions)

Answer any *three* of the following.  $3 \times 15 = 45$ 

- 7. What are the main factors affecting the properties of Air a) Masses?
  - What are fronts ? How fronts are responsible for b) changing in weather? 6 + (3 + 6)

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- 8. a) Briefly explain how weather is reported from the sea
  - b) What are the publications supplied by IMD to the selected and supplementary ships?
  - c) Briefly explain the term danger messages? 7 + 4 + 4
- 9. a) What is Tropical Revolving Storm? What is its origin, movement and life span? How can you avoid action of TRS?
  - b) Write briefly a note on Voyage Planning, Execution and Monitoring? (2 + 4 + 3) + 6
- 10. Write short notes on the following:
  - a) Pollution by Oil, Chemicals
  - b) Atmospheric pollution by Marine Transport
  - c) Weather forecasting.

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