

**INDIA METEOROLOGICAL  
DEPARTMENT  
QUESTION BANK  
OF  
INTEGRATED MET. TRAINING COURSE  
(IMTC)  
FINAL EXAMINATION  
BASED ON 1-11 BATCHES (2013-2021)  
PAPER-II: PHYSICAL MET, MARINE  
MET AND ENV.MET  
PART B : MARINE METEOROLOGY**

**INDIA METEOROLOGICAL DEPARTMENT**  
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**Q 1. Fill in the blanks.**

1. Large waves begins to form when speed is more than or equal to \_\_\_\_\_ over sea.
2. Wave height is the distance between \_\_\_\_\_ and \_\_\_\_\_.
3. Whirling psychrometer is used to measure \_\_\_\_\_ observations on board ship.
4. Port met. Officer serves as \_\_\_\_\_ officer between the marine community and the met services of the country.
5. Beaufort scale is referred for visual estimation of -----.
6. Recording of observations in meteorological logbook is obligatory for the ----- and - ----- ships.
7. India is having responsibility to issue GMDSS bulletins for the METAREA ----- north of equator.
8. While taking observations on board ship, value should be read at the exact standard time.
9. Port met. Officer serves as \_\_\_\_\_ officer between the marine community and the met services of the country.
10. For recruitment of \_\_\_\_\_ ship, no prior arrangements are required with the meteorological services of the country of registry.
11. The office of the Port Met. Office (PMO) should preferably be located at \_\_\_\_\_.
12. Full form of GMDSS is \_\_\_\_\_.
13. Port Met officer serves as ----- Officer between the Marine Community and the Met services of the Countries.
14. India is having responsibility to issue GMDSS bulletins for the METAREA -----north of equator.

15. Port Met officer serves as ----- Officer between the Marine Community and the Met services of the Countries
16. A uniform system of Storm Warning Signals for ports introduced at all ports from \_\_\_\_\_.
17. The 'Bucket' instrument is associated with measurement of .....
18. There are ..... number of PMO in India.
19. Full form of **VOSCLIM** is \_\_\_\_\_.
20. Standard times of Synoptic Observations are \_\_\_\_\_.
21. There are \_\_\_\_\_ numbers of ports viz. at \_\_\_\_\_.
22. National Maritime Day is celebrated on \_\_\_\_\_ of every year.
23. IMD started issuing two GMDSS bulletins daily at 0900 & 1800 UTC w.e.f. \_\_\_\_\_.
24. \_\_\_\_\_ is used for measuring Atmospheric Pressure while \_\_\_\_\_ are used for measuring Sea temperatures.
25. Standard times of Synoptic Observations are \_\_\_\_\_.
26. There are \_\_\_\_\_ numbers of ports viz. at \_\_\_\_\_.
27. The temperature of the sea water is measured by -----
- 28.

**Q 2. Answer the following**

1. Explain how the wind direction has been visually estimated in ship observation.
2. What are the meteorological factors related.
3. What are the methods for measuring sea surface temperature on board ship?
4. Where are the Port Meteorological Offices located in India?
5. What is a selected ship station?
6. What is the 'Incentive Programme for voluntary observing ships (VOS)?
7. What are the main standard times of synoptic observations on board ship?
8. What are the instruments provided with the 'Selected Ships' in VOF?
9. Write down the full form of any two of the following.
  - 1) PMO 2) CWS 3) GMDSS
  - 4) VOS 5) PMO 6) GMDSS

7) GMDSS 8) MPERSS 9)ACWC 10) INOSHAC 11) MPERSS  
12) GMDSS (13) ACWC (14) PMO (15) CWS (16) MPERSS (17) INCLI

**Q 2. Write short notes of the following**

1. Port meteorological offices
2. Sea waves and swell waves
3. Functions of PMO
4. Global Maritime Distress Safety System (GMDSS)
5. Criteria for recruitment of ships in VOS scheme.
6. Incentive Program for Voluntary Observing Ships.
7. Description of Ship Weather Code
8. What is a selected ship station?
9. Incentive Program for Voluntary Observing Ships.
10. Ship Weather Code
11. GMDSS Bulletin