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B.M.S. COLLEGE FOR WOMEN
BENGALURU-560004

I SEMESTER END EXAMINATION- JAN/FEB-2024

OPEN ELECTIVE- CLIMATE SCIENCE
(Repeater)

Course Code: PHY10E1B

Duration: 2 ½ Hours

QP Code: 1207

Max. Marks: 60

PART A

Answer any TEN questions out of Twelve Each question carries ONE mark (10x1=10)

1. What is Atmosphere Physics?
2. What is the significance of fixed gases in atmosphere?
3. How does temperature vary with the altitude in troposphere?
4. What are winds?
5. Mention the regions that are named as subtropical belts.
6. Mention a device used to measure wind.
7. What is an Aerosol?
8. Explain the disadvantage of deforestation.
9. Mention the factors that cause Global warming.
10. Is coriolis force a real force?
11. Mention any one Greenhouse gas.
12. What is Geo-engineering?

PART B

Answer any TEN questions out of Twelve Each question carries TWO mark (10x2=20)

13. Mention any two factors that affect the vertical distribution of temperature.
14. Name the different layers of Earth atmosphere.
15. Differentiate between weather and Climate.
16. What are Greenhouse gases?
17. Where is ozone layer located? Mention its importance.
18. Mention two types of meteorological satellites used in atmosphere observations.

19. What are relative and absolute humidity?
20. What are the main objectives of WMO?
21. How satellites are collect data?
22. What are the different types of satellite systems?
23. Mention any two important R & D centers in India dedicated to climate Science.
24. What is cloud seeding? Mention any one chemical used in cloud seeding?

PART C

Answer any SIX questions out of eight. Each question carries FIVE mark (6x5=30)

25. Describe the vertical distribution of temperature in the Earth atmosphere.
26. Write a note on composition of earth's atmosphere.
27. What is meteorology? Write a note on (i) Physical meteorology (ii) Dynamic meteorology.
28. Explain Surface station model.
29. (a) What is Coriolis force?
(b) Write a note on the formation of (i) Trade winds and (ii) Cyclones. (2+3)
30. Write a note on Satellite observation.
31. Write any four differences between conventional and non-conventional sources of energy.
32. (a) Write a note on greenhouse gases and its effects.
(b) Mention any three causes for Global warming. (2+3)
