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B.M.S COLLEGE FOR WOMEN AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – JANUARY/FEBRUARY 2023

Open Elective - I Semester

CLIMATE SCIENCE
(NEP Scheme 2021-22 onwards)

Course Code: PHY1OE1
Duration: 2 ½ Hours

QP Code: 1207
Max. Marks: 60

PART – A

Answer any TEN questions. Each question carries ONE Mark. (10x1=10)

1. What is meteorology?
2. Which is the main factor of climate zone?
3. Abbreviate ICAO.
4. What is the significance of fixed gases in the atmosphere?
5. Which is the first layer of earth's atmosphere?
6. Is Coriolis force a real force?
7. What is Aerosol?
8. Which the instrument used to measure pressure?
9. Which regions are named as subtropical high pressure belts?
10. Where is National Atmospheric Research Laboratory located?
11. What is deforestation?
12. Give any one example for photo meteor.

PART – B

Answer any TEN questions. Each question carries TWO Marks. (10x2=20)

13. Differentiate between weather and climate.
14. What is meteor? Give example.
15. Where is ozone layer located? What is its importance?
16. What are the main objectives of WMO?
17. What are relative and absolute humidity?

18. Mention the instrument used humidity and wind speed.
19. Explain cloud seeding.
20. Mention any one advantage and disadvantage of global climate model (GCM).
21. What is global energy balance for earth's atmospheric system? Mention the surface temperature of sun.
22. Which are the different types of satellite systems?
23. How Observation Satellites collect data?
24. What is the importance of El-Nino southern oscillations?

PART – C

Answer any SIX questions. Each question carries FIVE Marks.

(6x5=30)

25. Write a note on composition of Earth's atmosphere.
26. Explain about the temperature variations in different layers of atmosphere.
27. Briefly explain about the study of meteorology
28. Write a note on formation of trade winds and cyclones.
29. Briefly explain about the weather station models.
30. What are ElNino and LaNina? Explain briefly ElNino event.
31. What are Conventional and Non-Conventional energy sources with examples?
Mention its uses.
32. Write a note on Greenhouse gases and its effects.
