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**B.M.S COLLEGE FOR WOMEN, AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – SEPTEMBER -2023**

**Open Elective - II Semester
ENERGY SOURCES**

**Course Code: PHY2OE02
Duration: 2 ½ Hours**

**QP Code: 2212
Max marks: 60**

PART-A

Answer any TEN questions out of twelve. Each question carries ONE mark (10X1=10)

1. What is biogas?
2. Name the device to measure wind speed?
3. Why is solar and wind energy considered as renewable source of energy?
4. Why tides are high on full moon day?
5. Explain the working principle of generator in energy conversion.
6. What is solar green house?
7. What is Tidal energy?
8. What is geo thermal energy?
9. Photovoltaic cell use which renewable source of energy for energy conversion.
10. Why sun tracking necessary in PV model?
11. Mention the unit of power.
12. Write one disadvantage of nuclear energy.

PART-B

Answer any TEN questions out of Twelve. Each question carries TWO marks (10X2=20)

13. Mention any two disadvantages of burning fossil fuel.
14. Write about future of nuclear energy.
15. What is hydroelectric power? Mention any one hydroelectric power station.
16. Write photovoltaic (PV) model diagram.
17. Can biomass be used as fuel? Explain.

18. How does solar still work?
19. Distinguish between cell and battery.
20. Write any two non convention energy resources.
21. What is green energy?
22. Write block diagram of hydroelectric power.
23. Write the main components of fuel cell system.
24. Mention the types of wind energy converter.

PART - C

Answer any SIX questions out of Eight. Each question carries FIVE marks (6X5=30)

25. Explain primary and secondary energy sources.
26. Explain the types of renewable sources of energy.
27. Explain the merits and demerits of solar cell.
28. Explain carbon capture technology.
29. Explain the types of fossil fuel.
30. Write a note on wave energy devices.
31. Explain the applications of solar energy.
32. Explain the need of power electronics
