

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2024-25 ONLY)**

**(NO.OF PAGES: 1)
SUBJECT CODE 24 PPS 2N1**

REG.NO:

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY – 2025

PG COURSES (AIDED)

MAXIMUM MARKS: 100

II SEMESTER

TIME: 3 HOURS

NON MAJOR ELECTIVE – I

NON CONVENTIONAL ENERGY SOURCES

SECTION – A

(5 X 5=25 Marks)

ANSWER ANY FIVE FROM THE FOLLOWING QUESTIONS.

1. Analyze the function of solar water heating with its construction. (K3)
2. Explain the physical principles of the conversion of solar radiation into heat. (K3)
3. List the advantages and disadvantages of wind energy conversion system (WECS) (K3)
4. Explain closed cycle ocean thermal energy conversion (OTEC) system. (K3)
5. Explain the applications of Geothermal Energy. (K3)
6. Discuss the various types of geothermal sources. (K3)
7. Discuss the design, principle and operation of a fuel cell. (K3)
8. List the advantages and disadvantages of fuel cell. (K3)

SECTION – B

(5 X 15 = 75 MARKS)

ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS.

9. Describe the construction and working of solar cooking. (K4)
10. Discuss the nature of solar radiation at the earth surface. (K4)
11. Analyze the site selection for wind energy. (K4)
12. Elaborate the basic components of a wind energy conversion system (WECS). (K4)
13. Explain open cycle ocean thermal energy conversion (OTEC) system. (K4)
14. List the advantages and disadvantages of geothermal energy. (K4)
15. Describe the classification of fuel cells. (K4)
16. Discuss the various types of fuel cells. (K4)