(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2023-24 ONLY)

(NO. OF PAGES : 1)

SUBJECT CODE 23UPS3N1

REG.NO.

NGM COLLEGE (AUTONOMOUS) POLLACHI
END-OF-SEMESTER EXAMINATIONS: NOVEMBER-2024

UG PROGRAMMES (AIDED) **MAXIMUM MARKS: 50**
III SEMESTER **TIME: 2 HOURS**

PART-IV: NON-MAJOR ELECTIVE PAPER-I

PRINCIPLES OF PHYSICS – I

SECTION A

ANSWER THE FOLLOWING QUESTIONS [10 x 1 =10 MARKS]

MULTIPLE CHOICE QUESTIONS:

1. In the double rainbow condition, how many times is the light being reflected?
   a) one b) two c) three d) four
2. Diode is used as
   a) rectifier b) amplifier c) oscillator d) vibrator
3. Solar cells are made of
   a) conductor b) Insulator c) semiconductor d) superconductor
4. The Earth takes _____ to complete a rotation.
   a) 30 days b) 24 hours c) 365 days d) 6 months
5. The Richter scale is used to measure the
   a) temperature b) pressure c) rain d) earthquake

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. (K2)

6. What is meant by ozone layer?
7. Expand LED.
8. What is the principle of solar cell?
9. What is meant by Shooting stars?
10. What is the role of choke in tube lights?

SECTION– B (5X8=40MARKS)

ANSWER ANY FIVE QUESTIONS OUT OF THE EIGHT QUESTIONS. (K3)

11. Explain Measurement of Rain and Artificial Rain.
12. Write a note on transistor amplifier and integrated circuits.
13. Describe solar water heating.
14. Explain the measurement of temperature of planets and stars.
15. Explain the construction and working of Microwave ovens and Pressure cooker.
16. List and describe the applications of solar photovoltaic system.
17. Explain the construction and working of LED.
18. Discuss photocopier and thermostat.

ETHICAL PAPER

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