

REG.NO:

NGM COLLEGE (AUTONOMOUS) POLLACHI
END-OF-SEMESTER EXAMINATIONS: NOVEMBER - 2025
ALL UG COURSES (AIDED) MAXIMUM MARKS: 50
III SEMESTER TIME: 2 HOURS

PART-IV : NON-MAJOR ELECTIVE PAPER – I

PRINCIPLES OF PHYSICS – I

SECTION-A (10 X1 =10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. The rainbow is observed in the direction
a) opposite of the Moon b) opposite of the Sun
c) opposite of the Mars d) opposite to the jupiter
2. Capacitor is used as.....
a) rectification device b) amplification device
c) charge storage device d) oscillating device
3. Solar cells are made of
a) conductor b) Insulator c) semiconductor d) superconductor
4. The Earth takes _____ to complete a revolution around the sun.
a) 30 days b) 24 hours c) 365 days d) 6 months
5. The thermometer 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 artificial rain?
7. Expand LED.
8. What is the principle of solar cell?
9. What are Saturn rings?
10. Define thermostat.

SECTION– B

(5X8=40MARKS)

ANSWER ANY FIVE QUESTIONS OUT OF THE EIGHT QUESTIONS.

(K3)

11. Explain the cosmic rays and ozone layer.
12. Write a note on transistor amplifiers and integrated circuits.
13. Describe the applications of solar photo voltaic system.
14. Explain the measurement of temperature of planets and stars.
15. Explain the construction and working of Microwave ovens and Pressure cooker.
16. Describe the construction and working of rectifier diodes.
17. Explain the construction and working of light emitting diode.
18. Discuss the role of chokes of Starter in tube lights and reason for no sharp shadows.