

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER - 2022

B.Sc. – PHYSICS

MAXIMUM MARKS: 50

III SEMESTER

TIME: 2 HOURS

PART-IV: NON-MAJOR ELECTIVE PAPER-I

PRINCIPLES OF PHYSICS - I

SECTION – A

[10 x 1 =10 MARKS]

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. Which substance is used for artificial rain _____
(a) Silver iodide (b) Titanium (c) Lithium (d) Maganese
2. Most used semiconductor material is _____
(a) Potassium (b) Silicon (c) Lithium (d) Zinc
3. When sunlight strikes a solar cell _____ in the silicon are ejected
(a) Electrons (b) Protons (c) Neutrons (d) Fermions
4. The Saturn ring is _____ largest plant in the solar system
(a) 2 (b) 4 (c) 5 (d) 7
5. The sodium vapour lamp produces _____ light
(a) Green-Yellow (b) Red- Orange (c) White-Red (d) none of these

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

6. Explain Rainbows.
7. What do you mean by diode?
8. Explain solar cell principle.
9. Write about Saturn rings.
10. What do you mean by Richter scale?

SECTION-B (5x8=40)

ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS.

(K3)

11. Explain about the Artificial rain.
12. Briefly explain integrated circuits.
13. Write a notes on Solar cell.
14. Briefly explain Saturn rings.
15. Write about Sodium vapour lamp.
16. With a neat diagram explain semiconductor.
17. Explain Rectifiers and Resistors.