

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY – 2023

UG COURSES (AIDED)

MAXIMUM MARKS: 50

IV SEMESTER

TIME: 2 HOURS

PART-IV: NON-MAJOR ELECTIVE PAPER-I

PRINCIPLES OF PHYSICS - II

SECTION-A

(10 X 1= 10 MARKS)

ANSWER ALL THE QUESTIONS.

MULTIPLE CHOICE QUESTIONS:

1. Which gas is used in hot air balloons _____ (K1)
(a) Nitrogen (b) Helium (c) Carbon dioxide (d) Oxygen
2. Optical fibers are used instead of _____ (K1)
(a) Glass (b) Plastic (c) Metal (d) None of these
3. Infrared spectroscopy is a method of identifying and analyzing _____ (K1)
(a) Chemical compounds (b) Morphology (c) Physical structure (d) Temperature
4. Ruby laser with a peak near _____ (K1)
(a) 6943 Å (b) 7204 Å (c) 7582 Å (d) 8243 Å
5. A black box is a _____ recording device (K1)
(a) Electronic (b) Radar (c) Sonar (d) Sensor

SHORT ANSWER QUESTIONS

6. What do you mean by Battery? (K2)
7. What is meant by Holograms? (K2)
8. Explain the artificial teeth. (K2)
9. What are the uses of Bullet proof glass? (K2)
10. Explain the Breath analyzer. (K2)

(CONTD. .. 2)

SECTION - B

(5 X 8= 40 MARKS)

ANSWER ANY FIVE QUESTIONS.

11. Explain Hot air balloons. (K3)
12. Write a note on optical fiber. (K3)
13. Describe the Origin of Gravity. (K3)
14. Briefly explain the Laser. (K3)
15. Write about TFM on soap. (K3)
16. Explain the uses of IR spectroscopy. (K3)
17. Write a note on splitting of white light. (K3)

ETHICAL PAPER
