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JSUNIL TUTORIAL

P U N J A B I C O L O N Y G A L I 0 1

Class 7th

Science Physics Sample Paper

FM : 50

Section A (1x5=5)

1. Aspherical mirror with its reflecting surface on the outside is a (a) plane mirror (b) concave mirror (c) convex mirror (d) both b and c
2. At what position of the object does a convex lens act as a magnifying glass ? (a) between F and 2F (b) between F and O (c) beyond F (d) beyond 2F
3. A virtual image by a plane or a spherical mirror is (a) always inverted (b) always erect (c) Erect or inverted depends on the distance of object from the mirror
4. Band of which colour is not seen in spectrum (a) green (b) Yellow (c) purple (d) red
5. Strength of magnetic field due to a solenoid can be increased by (a) Increasing the number of turn (b) Increasing the current (c) Winding the solenoid around a magnetic material (All of these)

Section B (1x5=5)

6. What do we draw by use of symbol?
7. What is the core of electromagnet made up of?
8. Which magnet does a current – carrying solenoid act as?
9. Which of these has a smaller focal length – a thick lens or a thin lens?
10. What does a convex lens do a parallel beam of light incident on it?

Section C (3x5=15)

11. Explain difference between real and virtual image?
12. State three uses of concave mirror
13. State the position and nature of image formed by a concave mirror when object placed on (i) between F and O (ii) beyond F (iii) between F and 2F
14. State the position and nature of image formed by a convex lens when object placed on (i) between F and O (ii) at 2 F (iii) between F and 2F
15. Define with the help of diagram in two spherical lenses (a) principal focus (b) focal length

16. Why convex mirror preferred in rear view in a car?
17. What is electric circuit? Write the symbol used in a circuit for a battery , a switch , a lamp, Resistance
18. Why are fuse wire used in electric circuit?
19. What is potential at a point and potential difference at two end of conductor? what is the relation between potential difference and flow of current?
20. What is electromagnet? Give three use of electromagnet.
21. How can you increase magnetic strength of a solenoid?
22. Define: Miniature circuit breaker , battery, Mirror, Resistance, Principal axis , Centre of curvature of lens.
23. Does every conductor heat up when current passes through it? Give reason? Name the two conductors normally use in heating appliances.
24. Explain the working of electric bell?
25. A convex lens is said to have a real focus and a concave lens a virtual focus why?