

PHYSICS

M.M: 25

QI Tick the correct answer:

1. Your image in bathroom mirror results from _____ (mark 1)
a) diffused reflection b) specular refraction
c) specular refraction d) diffuse refraction
2. How does light travel? (mark 1)
a) in concentric circles b) in a straight line
c) always toward dark area d) in a curved line
3. _____ is located behind a convex mirror. (mark 1)
a) the focal point b) a ray
c) a real image d) the object
4. Which of the following optical phenomenon is used for cinematography or movie projector? (mark 1)
a) accommodation b) persistence of vision
c) interference d) short sightness
5. When light passes through prism, the colour which deviates the least is? (mark 1)
a) red b) blue
c) violet d) green
6. What is the time difference between actual sunset and apparent sunset? (mark 1)
a) 2 seconds b) 20 seconds
c) 2 minutes d) 20 minutes
7. The change in focal length of an eye lens is caused by the action of (mark 1)
a) pupil b) retina
c) ciliary muscles d) iris
8. How many electrons will be there in 1.6 C charge? (mark 1)
a) 10^{17} b) 10^{18}
c) 10^{19} d) 10^{20}
9. The potential difference between two terminal can be measured by (mark 1)
a) an ammeter b) a voltmeter
c) an ohmmeter d) a rheostat
10. Which of the following is not attracted by a magnet? (mark 1)
a) steel b) cobalt
c) brass d) nickel

QII Answer the following questions in one word or one sentence.

1. What is meant by saying that electrical potential at a point is 1 volt? (mark 1)

2. How an ammeter is connected in a circuit? (mark 1)

3. Christmas tree lamps are usually connected in series. What happens if one lamp breaks? (marks 1)

3. Read the conversation given below and complete the paragraph that follows : (5 Marks)

- Veena : Did you watch the IPL Cricket match yesterday?
Megha : No.
Veena : You should have watched. The Deccan Chargers played very well.
Megha : I will surely watch their next match. Isn't it on this Friday?
Veena : Yes, it is.

Veena asked Megha (a) _____ . Megha replied (b) _____ .
_____. Veena told her that
she should have watched as (c) _____ .
Megha assured her (d) _____ and asked
(e) _____ . Veena confirmed that it was on
Friday.

4. What is the function of commutator rings? (marks 1)

5. What is the principle of electric motor (marks 1)

QIII Answer the following questions briefly:

1. How does the resistance of a wire vary with the area of cross-section and why? (marks 2)

2. Why don't two magnetic lines of force intersect with each other? (marks 2)

3. Why is it necessary to earth metallic appliances? What is the need of earth wire? (marks 2)

4. Draw the ray diagram formed by concave lens when object is placed between infinity and focus. (marks 2)

5. Why does sun appears reddish in the morning? Why sky appears dark instead of blue to astronauts? (marks 2)
