

PHYSICS (JUNE 2023)

MCQ.

1. A device that converts electrical energy into mechanical energy is generator (B) Electric motor (C) Galvanometer (D) Voltmeter (A) Electric
2. A mirror forms an erect and enlarged image of an object. Then the type of the mirror and the nature of the image respectively are (A) convex mirror and virtual image (B) concave mirror and real image (C) plane mirror and real image (D) concave mirror and virtual image
3. The power plant that generates electricity without using the turbines is (A) Thermal power plant (B) Hydro power plant (C) Solar power plant (D) Nuclear power plant
4. Imagine, you are holding a straight current carrying conductor as per the right hand thumb rule. If the thumb is upward, then the direction of the field lines of the magnetic field is (A) downward (B) upward (C) anti-clockwise (D) clockwise

1 MARKS QUESTIONS :

5. Draw the symbol diagram of rheostat used in electric circuit.
6. Observe the figure and mention the direction of the force acting on the current carrying conductor AB. Name the rule that helped you to find the direction of the force.



2 MARKS QUESTIONS :

7. Name any two fossil fuels and mention any two disadvantages of using fossil fuels.
8. 1000 J of heat is produced each 2 seconds in a $5\ \Omega$ resistor. Find the potential difference across the resistor.

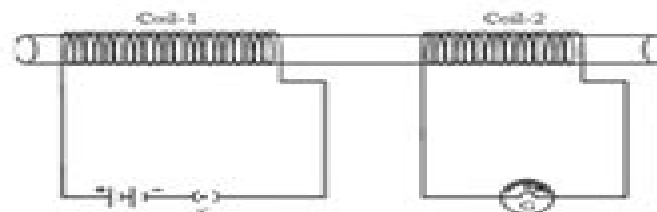
OR

A wire of given material having length 'l' and area of cross-section 'A' has a resistance of '4 Ω '. Find the resistance of another wire of the same material having length ' $\frac{l}{2}$ ' and area of cross-section '2A'.

3 MARKS QUESTIONS :

9. What is meant by the 'aperture' of a spherical mirror? Mention the four uses of a concave mirror.
- OR
- a) What is meant by the power of a lens? Write the formula used to find the power of a lens. What is the SI unit of power of a lens?
 - b) If the focal lengths of two lenses 'A' and 'B' are +0.50 m and -0.40 m respectively. Mention the types of these lenses in the same order.

10. Observe the given diagram : Explain the experiment related to this diagram. What conclusions can be drawn from this experiment?



11. Draw the ray diagram for the image formation by a convex lens, when the object is placed at $2F_1$. With the help of the ray diagram mention the position and the nature of the image formed.
- OR
- Draw the ray diagram for the image formation in a convex lens when the object is placed beyond $2F_1$. With the help of the ray diagram mention the position and the nature of the image formed.

4 MARKS QUESTIONS :

12. a) A bread-toaster rated 350 W is used for 15 hours a day. An electric iron box rated 250 W is used for 5 hours a day. Calculate the cost of using these appliances for 30 days, if the cost of 1 kWh is Rs. 4.
- b) In which method the resistors R1 and R 2 could be connected so that the equivalent resistance of that electric circuit becomes low? What is the change in the value of current in the circuit by this type of connection?

5 MARKS QUESTIONS :

13. a) How does the lens of human eye accommodate to see the nearby objects and the distant objects? Explain.
- b) Explain the formation of rainbow in the nature.

2013 Zimbabwe O Level Physcal Science Quetion Paper 2

Kathleen Armour



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