



PHYSICS

BOOKS - KUMAR PRAKASHAN

**QUESTION PAPER-2 (MARCH,2020 -
BOARD'S QUESTIONS PAPER)**

**Section - A (Answer the following questions) true
or false:**

1. Optician has prescribed corrective lens indicating -0.4 D. This means the lens prescribed is convex.



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Section - A (Answer the following questions)

MCQs

1. The least distance of distant vision for a young adult with normal vision is

A. 25 m

B. 2 . 5 cm

C. 25 cm

D. 2 . 5 m



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Section - A (Answer the following questions)

1. Name the type of energy from sea that we get due to the gravitational pull of mainly the moon on the spinning earth and the level of water in the sea rises and falls.



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2. Name the scientist after whom the SI unit of electric current is expressed.



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Section - B (Answer the following questions)

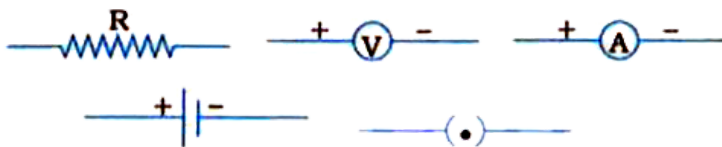
1. Name the type of mirror used in side/rear view mirror of a vehicle. Support your answer with reason.



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2. Symbols of some components are given below. Using all of them only once draw an appropriate circuit diagram. Assume you are already having the wires for connection .

Also name each component used.



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3. An electric refrigerator rated 400 W and an electric bulb rated 100 W are operate 10 hours/day . What is the cost of the energy to operate them for 10 days at ₹ 8.00 per kWh?

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4. What precautions should be taken to avoid the overloading of domestic electric circuits ?



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Section - C (Answer the following questions)

1. Explain the electrolytic refining of copper with the help of a diagram .



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2. Explain thermite process with equation.



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3. Draw the diagram of image formation by a concave mirror when the object is placed between centre of curvature and focus of the concave mirror. Also state the position, size and nature of the image formed .



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4. A pencil 4.0 cm in size, is placed at 25.0 cm in front of a concave mirror of focal length 15.0 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image ? Find the nature and the size of the image.



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5. Derive the equation of equivalent resistance of resistors connected in parallel.



6. The electricity bill of Atulbhai's house is more. So Sachin advised him to go for Government's subsidy scheme and put solar panels in his house. By doing so Atulbhai's electricity bill reduces.

(1) In the solar panel the solar energy is converted into what form of energy ?

(2) How many watts of electricity is produced from a typical solar cell when exposed to the

sum ?

(3) State the limitations of solar energy.



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Section - D (Answer the following questions)

1. Shyam a student has difficulty in reading the blackboard while sitting in the last row. What could be the defect the child is suffering from ? How can it be corrected ? Explain with help of appropriate diagram .



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2. Explain the underlying, principle, working and uses of an electric generator with a labelled diagram.



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3. What is electromagnetic induction ? A coil of insulated copper wire is connected to a galvanometer. What will happen in the galvanometer if a strong bar magnet is ...

(1) pushed into the coil ?

(2) withdrawn from inside the coil ?

(3) held stationary inside the coil ?



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