



PHYSICS

BOOKS - KUMAR PRAKASHAN

MODEL QUESTION PAPER 2

Section A State Whether The Following Statements Are 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 Chooset The Correct Option And Write It With Answer From Those Given Below Multiple Choice Questions Mcq

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

Answer:



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Section A Answer The Following Question As Directed

1. In the modern periodic table. I am an element belonging to the second group and

third period. Who am I?



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



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Section B Answer The Following Questions Within The Limit Of 40 To 50 Words As Directed

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



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



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4. Mention any two problems addressed to by construction of large dams.



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Section C Answer The Following Questions Within The Limit Of 60 To 80 Words As Directed

1. 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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2. 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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3. Derive the equation of equivalent resistance of resistors connected in parallel.



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Section D Answer The Following Questions Within The Limit Of 90 To 120 Words As Directed

1. A coil of insulated copper wire is connected to a galvanometer . What will happen if a bar magnet is (i) pushed into the coil , (ii)

withdraw from inside the coil , (iii) held stationary inside the coil ?



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2. A coil of insulated copper wire is connected to a galvanometer . What will happen if a bar magnet is (i) pushed into the coil , (ii) withdraw from inside the coil , (iii) held stationary inside the coil ?



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Section A True Or False

1. Optician has prescribed corrective lens indicating -0.9 D. This means the lens prescribed is convex.



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



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