



PHYSICS

BOOKS - ICSE

MODEL TEST PAPER 2

Section I

1. Name a derived physical quantity with its SI unit.



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2. Convert 1 m^3 to cm^3 .



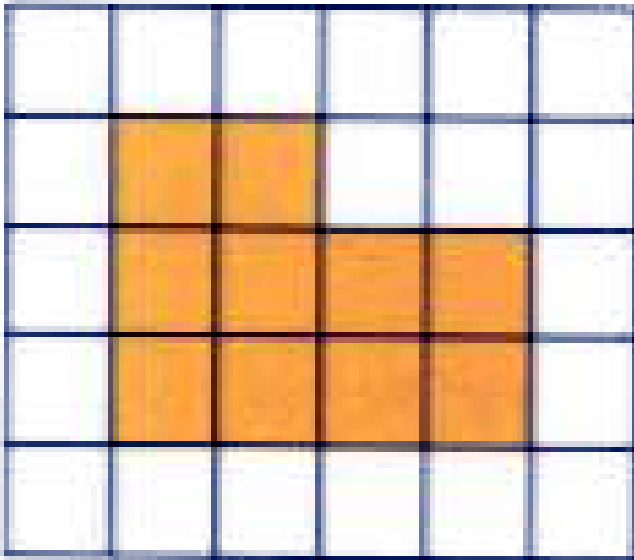
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3. In which units is the area of a country measured?



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4. Calculate the area of the figure if each square is 1cm^2



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5. The density of gold is $19.32\text{g} / \text{cm}^3$. Calculate its density in SI units.



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6. What kind of motion does a drilling machine have?



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7. Distinguish between scalar and vector quantities Give example .



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8. Give an example of mechanical energy



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9. What is the name of the quantity which gives information of speed as well as

direction?



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10. Name the energy possessed by moving charged particles inside a substance.



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11. What do you mean by KE? On what factors does it depend and how?



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12. Which surfaces reflect light better-rough or smooth?



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13. Name the following

The angle between the incident ray and the normal



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14. If the angle of reflection is 40° , what is the angle of incidence?



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15. The primary colours of light are:



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16. If a shirt has a pigment which absorbs blue colour and white light is incident on it, what

would be the colour of the shirt?



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17. Define temperature. What is its SI unit?



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18. If the temperature of an object rises by 1°C , what is the corresponding rise in the Kelvin scale.



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19. The temperature of a body rises by $1^{\circ}C$.

What is the corresponding rise on the Fahrenheit scale



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20. What do you mean by liquefaction?



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21. Give an example of sublimation.



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22. Ventilators are built high up in a room.

Give reason.

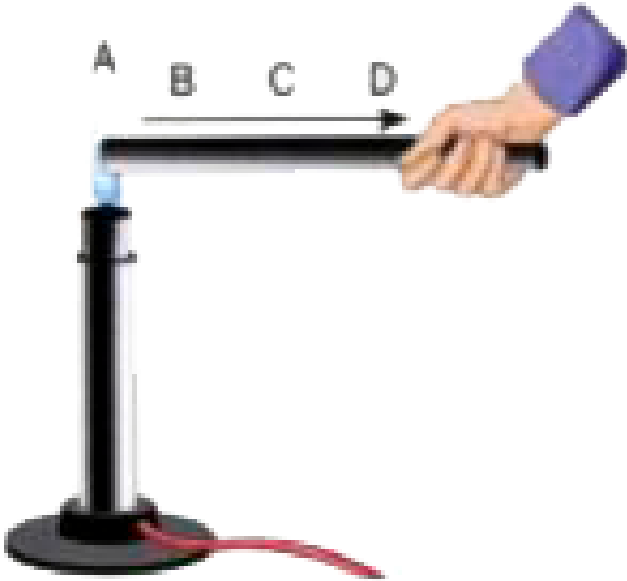


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23. Look at the figure and answer the question.

How does the heat get transferred from A B C

D point A to the hand?

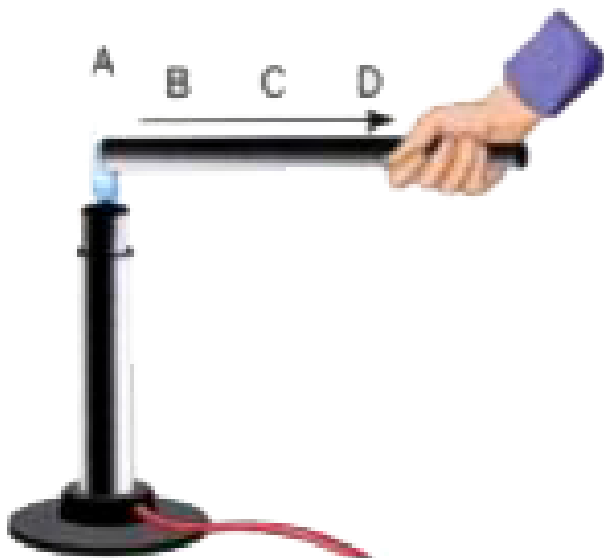


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24. Look at the figure and answer the question.

What is the term used for this method of

transfer of heat?

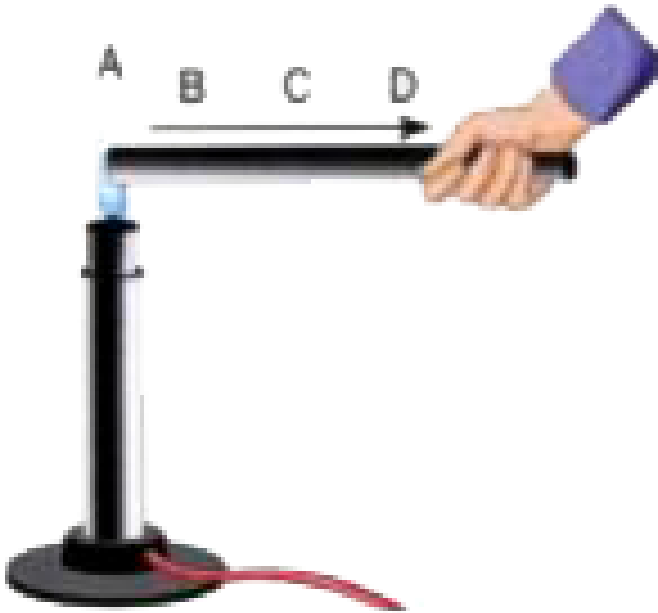


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25. Look at the figure and answer the question.

When does the transfer of heat in the metal

rod stop?



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26. Does sound needs a medium to travel?

Give reasons .



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27. Write the audible range of frequency for the normal human ear.



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28. In the following figures, which wave has a higher pitch? Give reason for your answer.



(a)



(b)



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29. Can sound travel through solids and liquids? In which of these does it travel faster?



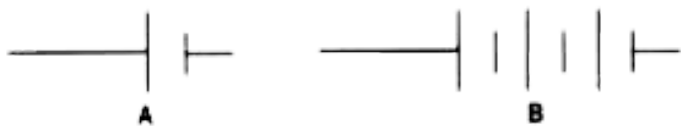
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30. How do music recording studio cut off unwanted sound?



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31. What do the following figures represent?



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Section II

1. How should we take the reading of a liquid level, if the meniscus of the surface is concave



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2. How should we take the reading of a liquid level, if the meniscus of the surface is convex .



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3. If the mass of 10 cm^3 of iron is 78 g, what would be its density?



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4. If the mass of 10 cm^3 of iron is 78 g, what would be its density?



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5. Define speed. What is its S.I. unit?



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6. Convert 10 m/s to km/h.



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7. If an ostrich covers 96.6 km in one hour and a black buck covers 160 km in two hours. which animal is faster?



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8. Explain translatory motion. Describe two types of translatory motion with examples.



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9. Does a body moving around a circular path with constant speed have constant velocity?

Give reasons.



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10. Rani starts from home reaches a temple which is 3 km away and comes back home after 2 hours. Calculate her distance and displacement.



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11. What is the speed of a lion that sprints 80 m in 4 s?



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12. State three differences between mass and weight.



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13. The weight of a person in Jupiter is 2.5 times as that on Earth. Give reasons.



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14. Name the energy which is released during digestion.



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15. Define potential energy with an example.



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16. Write the energy transformation in Battery

.



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17. Write the energy transformation in
Washing machine.



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18. Explain the law of conservation of charge with an example.



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19. Write the energy conversion that place in a hydropower plant.



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20. What do you mean by lateral inversion of an image?



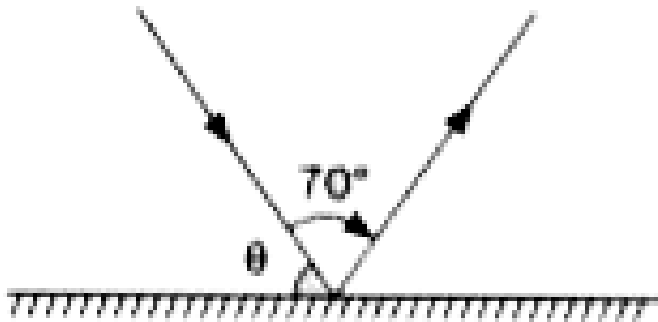
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21. State two differences between a real image and a virtual image.



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22. In the figure given the angle between incident ray and the reflected ray is 70°

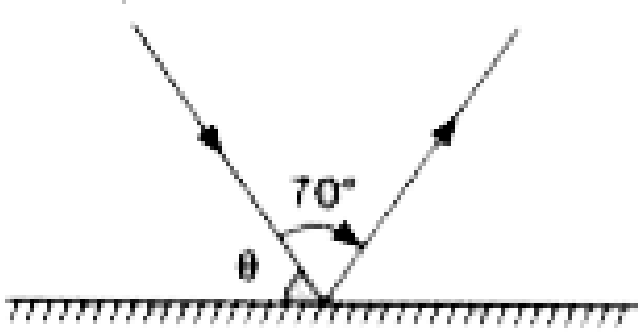


Find the angle of incidence.



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23. In the figure given the angle between incident ray and the reflected ray is 70°

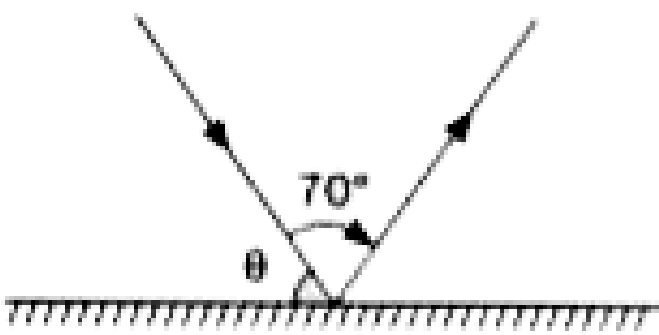


Find the angle of reflection.



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24. In the figure given the angle between incident ray and the reflected ray is 70°



Find the angle between the mirror and the incident ray.



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25. Fill in the blanks using what you have learnt on addition of colours

Red + Cyan = Red + Blue + =.....



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26. Fill in the blanks using what you have learnt on addition of colours

Green + = Green + Red + Blue =



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27. What are the two reference points of a thermometer scale?



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28. What phase change happen when water vapour becomes frost?



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29. Mud houses are cooler in summer and warmer in winter because



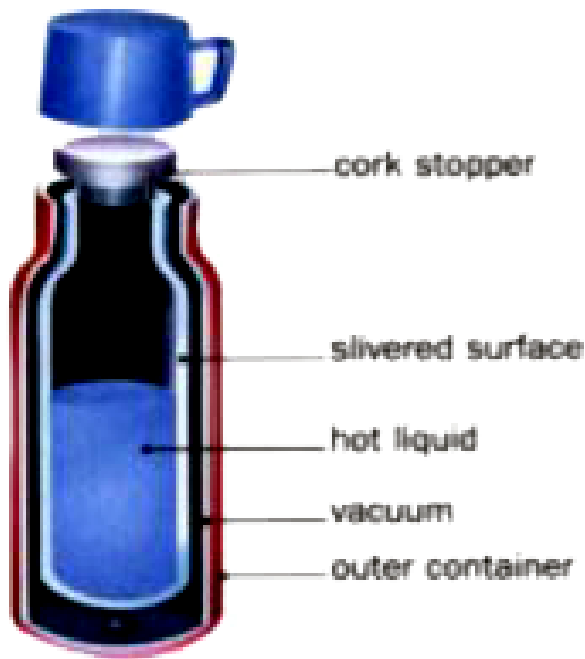
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30. State difference between boiling and evaporation.



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31. Look at the picture of the thermos flask and answer the following question



Which

means of heat transfer are prevented by having a vacuum between the two walls of thermos flasks?



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32. Look at the picture of the thermos flask and answer the following question



The outer surface of the inner wall of a thermos flask has a very shiny surface. What effect will this have on heat escaping from a hot liquid inside a thermos flask?



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33. Look at the picture of the thermos flask and answer the following question



What is the role of silver coating on the outer wall in the flask?



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34. Look at the picture of the thermos flask and answer the following question



Would you expect the cork to be a good or a bad conductor of heat?



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35. The time period of a vibrating body is 0.020. What is its frequency?



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36. What is a sonar?



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37. A boy fires a gun and another boy at a distance of 1360 m hears the sound of firing the gun 4 s after its smoke is seen. Find the speed of sound.



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38. How will you test whether a given rod is a magnet or not?



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39. State two differences between an electromagnet and a permanent magnet.



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40. In the following figures, the bulbs in Figure A and D glow, but the bulbs in Figure B and C do not glow. Give reason.



A



B



C



D



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