



PHYSICS

BOOKS - NAVNEET PUBLICATION

HEAT

Question Bank

1. Hold your hand in front of your nose or keep hand on your chest, what you feel ?



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2. Fill in the blanks with the proper words :

Noise has adverse effects on our _____



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3. Fill in the blanks with the proper words :

The propagation of sound does not occur through a _____



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4. Fill in the blanks with the proper words :

The propagation of sound does not occur through a _____



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5. Fill in the blanks with the proper word:

Some heat is lost from a thermos flask by _____ from the lid.



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6. Fill in the blanks with the proper word:

Cooking utensils are made from metals due to their property of _____.



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7. Fill in the blanks with the proper word:

Some heat is lost from a thermos flask by _____ from the lid.



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8. Fill in the blanks with the proper word:

Some heat is lost from a thermos flask by _____ from the lid.



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9. Fill in the blanks with the proper word:

Dark clothes are used in winter because they _____ heat.



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10. Find the odd man out:

Copper,silver,iron,wood



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11. Find the odd man out:

Tea cup,plastic tumbler,silver vase,glass

tumbler



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12. Find the odd man out:

Conduction, convection, expansion, radiation



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13. Write whether the following statement are true or false rewrite the false statement after correcting them:

mica is a good conductor of heat.



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14. Write whether the following statement are true or false rewrite the false statement after correcting them:

Plastic is a bad conductor of heat.



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15. Write whether the following statement are true or false rewrite the false statement after correcting them:

density of hot water is more than that of cold water



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16. Write whether the following statement are true or false rewrite the false statement after correcting them:

for convention of heat, the medium is cold required



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17. Write whether the following statement are true or false rewrite the false statement after correcting them:

Heat flows from cold place to hot place



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18. Write whether the following statement are true or false rewrite the false statement after correcting them:

Enclosed air is a good conductor of heat.





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19. Answer the following question in one sentence:

How does a fever get lowered with cold compress on forehead of a patient?



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20. Answer the following question in one sentence:

What are the modes of heat transfer?



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21. Answer the following question in one sentence:

What are good conductors of heat? give 2 examples.



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22. Answer the following question in one sentence:

What are bad conductors of heat? Give 2 examples.



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23. Answer the following question in one sentence:

Why solar cookers are painted black from outside?



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24. Answer the following question in one sentence:

Why cycle tube tyres are pumped in with less air in summer?



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25. Answer the following question in one sentence:

Why are thermos flask(Dewar flask)used?



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26. Answer the question in short:

Why are the houses in Rajasthan painted white?



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27. Answer the question in short:

Explain which mode of heat transfer causes sea breezes and land breezes?



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28. Answer the question in short:

Why is the outer coat of penguins of Antarctica black?



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29. Answer the question in short:

Why heaters fitted near the floor and air conditioners near the ceiling in a room?



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30. Answer the question in short:

Which one of these will absorb the heat? Steel spoon, wooden board, glass, vessel, iron, griddle(tava), glass, wooden spoon, plastic plate, soil, water, wax.



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31. Answer the question in short:

The side of a lantern is provided with holes on the lower side.



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32. Answer the question in short:

Why do we feel warm near the bonfire?



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33. Answer the question in short:

Why are thin bottom copper vessels applied with a layer of mud from outside while cooking?



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34. Answer the question in short:

What is an infrared camera? What is it used for?



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35. Answer the question in short:

What happens to the radiated heat falling on an object?



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36. Answer the question in short:

Why concrete roads have gaps filled with tar?



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37. Answer the question in short:

What is meant by thermoware?



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38. Answer the question with neat and well labelled diagrams:

Explain the construction and function of the thermos flask.



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39. Answer the question with neat and well labeled diagrams:

Draw a well labelled and neat diagram of thermos flask.





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40. Explain the following:

Conduction of heat:



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41. Explain the following:

Convection of heat



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42. Explain the following:

Radiation



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43. Use your brain power:

Why do we wear woolen clothes in winter?



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44. Use your brain power:

Why do we use white clothes in summer and

dark or black clothes in winter?



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45. Use your brain power:

Why is there a gap at the joints of rails and of cement concrete bridges?



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46. Use your brain power:

Why is mercury or alcohol used in a

thermometer?



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47. Give scientific reasons:

An ordinary glass bottle cracks when boiling water is poured into it. but a borosil glass bottle does not.



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48. Give scientific reasons:

The telephone wires which sag in summer become straight in winter.



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49. Give scientific reasons:

Dew drops are formed on the grass in winter.



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50. Give scientific reasons:

In winter why does an iron pillar feel colder than a wooden pole?



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51. Give scientific reasons:

We can feel the heat of a table lamp, under it.



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52. Give scientific reasons:

The hard water of a well becomes soft on adding washing soda to it.



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53. Give scientific reasons:

Ice is kept in sawdust to keep it from melting for a longer time.



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54. Give scientific reasons:

An iron tyre is heated before it is fitted on a wheel



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55. Give scientific reasons:

Two steel bowls stuck in each other can be separated by heating.



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56. Answer the following question:

For what different purpose do you use thermos flask?



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57. Answer the following question:

What can be different use of infrared camera?



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58. Answer the following question:

Why does the halwai wrap up clothes around the end of his slotted spoon while stirring the building milk in his large kadhai?



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59. Answer the following question:

Why do we hold a steel glass in a handkerchief while drinking hot milk from it? What are other examples of this kind?





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60. Answer the following question in one sentence:

What are the modes of heat transfer?



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61. Answer the following question orally:

What is the relation between density and convection?



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62. Answer the following question orally:

Why thermos flask is called Dewar flask?



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