



PHYSICS

BOOKS - CHETANA PUBLICATION

MAS_01

Exercise

1. Even if the displacement of an object is zero, the actual distance traversed by it.....

A. may not be zero.

B. will be zero.

C. will be constant

D. will be infinity

Answer:



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2. Write the relation between kilowatt hour and joule.

A. 4.6×10^6

B. 3.6×10^6

C. 30.6×10^6

D. 3.6×10^5

Answer:



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3. The work done by a force is said to bewhen the applied force does not produce displacement.

A. positive

B. negative

C. zero

D. none of these

Answer:



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4. The positive terminal electrode is called as..... .

A. anode

B. cathode

C. anion

D. cation

Answer:



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5.g of water make 1 mole of water.

A. 32

B. 33

C. 16

D. 18

Answer:



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6. Write whether the following statements are true or false, if false cannot correct the statement.

(a) Mechanical energy can be converted into electrical energy.



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7. Al_2O_3 is an amphoteric oxide.



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8. Find the odd man out:

Chloride, nitrate, hydride, ammonium



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9. Write the correlated terms .

Sodium : (2,8,1) :: chlorine ::



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10. Blue coloured copper sulphate crystals become colourless on heating.



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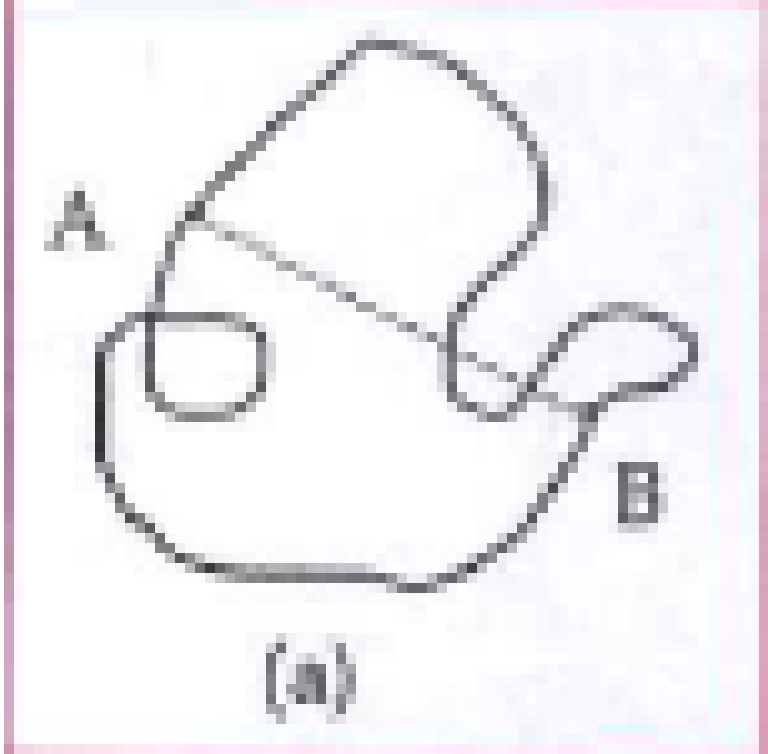
11. Explain the following reactions with the help of balanced equations:

Copper is reacted with dil. nitric acid.



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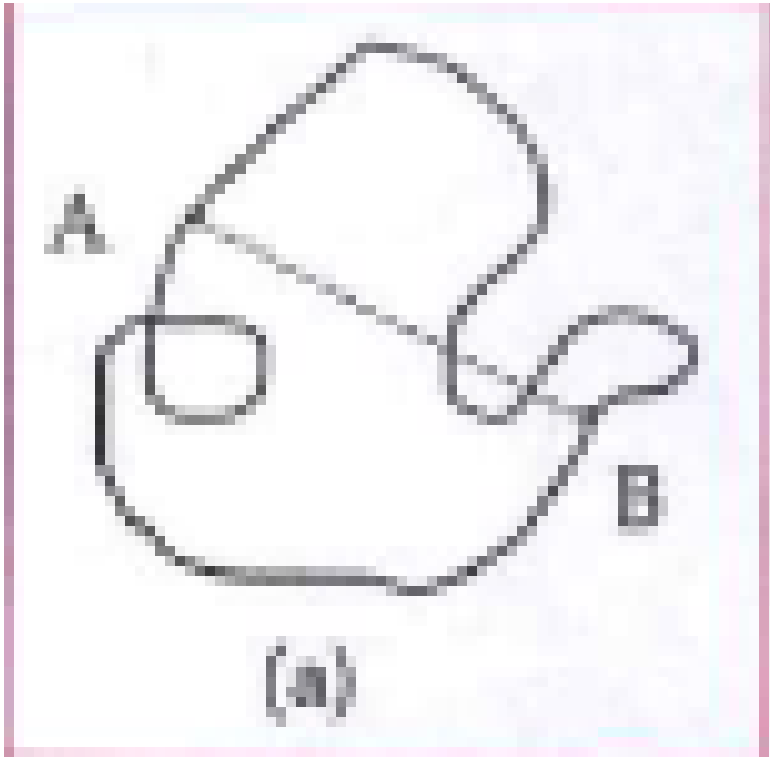
12. Measure the distance between points A and B in different ways as shown in figure (a).



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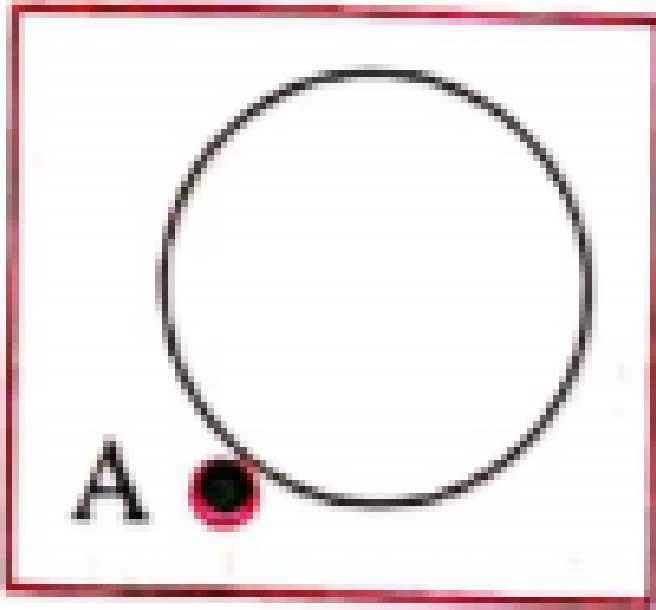
13. Now measure the distance along the dotted line. Which distance is correct

according to you and why?



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14. Use your brain power:

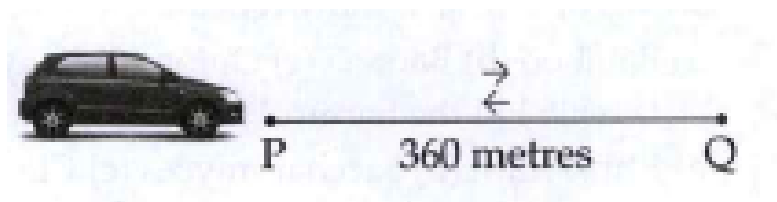


Every morning, Swaralee walks round the edge of a circular field having a radius of 100 m. As shown in Figure, if she starts from the point A and takes one round, how much distance has she walked and what is her displacement?



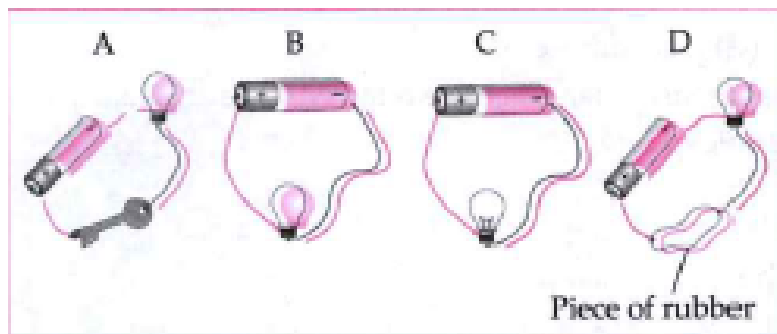
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15. If a car, starting from point P, goes to point Q (see figure) and then returns to point P, how much distance has it travelled and what is its displacement?



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16. Point out the mistakes in the figure given below.



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17. How will the compounds, $MgCl_2$ and CaO be formed from their elements?



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18. Classify the acids according to their basicity and give one example of each type.



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19. Solve:

Two resistors having resistance of 16 and 14 are connected in series, if a potential difference of 18 V is applied across them, calculate the current flowing through the

circuit and the potential difference across each individual resistor



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20. Use your Brain Power!

Can your father climb stairs as fast as you can?



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21. Will you fill the overhead water tank with the help of a bucket or an electrical motor?



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22. Suppose Rajashree, Yash and Ranjeet have to reach the top of a small hill. Rajashree went by car. Yash went cycling while Ranjeet went walking. If all of them choose the same path, who will reach first and who will reach last?



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23. M is a bivalent metal. Write down the steps to find the chemical formulae of its compounds formed with the radicals sulphate and phosphate.



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24. State Newtons' third law and what are its implications.



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25. Explain by drawing a figure of the electronic configuration.

Formation of Magnesium chloride from magnesium and chlorine.



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26. State the Law of conservation of momentum and derive the formula.



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27. Even if the displacement of an object is zero, the actual distance traversed by it.....

A. may not be zero.

B. will be zero.

C. will be constant

D. will be infinity

Answer:



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28. 1 kilowatt hr = joules.

A. 4.6×10^6

B. 3.6×10^6

C. 30.6×10^6

D. 3.6×10^5

Answer:



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29. The work done by a force is said to bewhen the applied force does not produce displacement.

A. positive

B. negative

C. zero

D. none of these

Answer:



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30. The positive terminal electrode is called as..... .

A. anode

B. cathode

C. anion

D. cation

Answer:



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31.g of water make 1 mole of water.

A. 32

B. 33

C. 16

D. 18

Answer:



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32. Write whether the following statements are true or false, if false cannot correct the statement.

(b) Al_2O_3 is an amphoteric oxide.



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33. State whether the following statement are true or false.

Mecanical energy can be covered into electrical energy.





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34. Al_2O_3 is an amphoteric oxide.



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35. Find the odd man out:

Chloride, nitrate, hydride, ammonium



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36. Write the correlated terms .

Sodium : (2,8,1) :: chlorine ::



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37. Name the following

Unit used in industry to measure power.



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38. Motion is relative.



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39. An exploding fire cracker lights as well as makes a sound.



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40. Blue coloured copper sulphate crystals become colourless on heating.



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41. Solve the following examples:

If the energy of a ball falling from a height of 10 metres is reduced by 40 % , how high will it rebound?



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42. Deduce the number of molecules in the compound in the given quantity. 32g of oxygen.



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43. Explain the following reactions with the help of balanced equations:

Copper is reacted with dil. nitric acid.



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44. Calculate the potential difference across a 7Ω resistor carrying a current of 0.2 A.



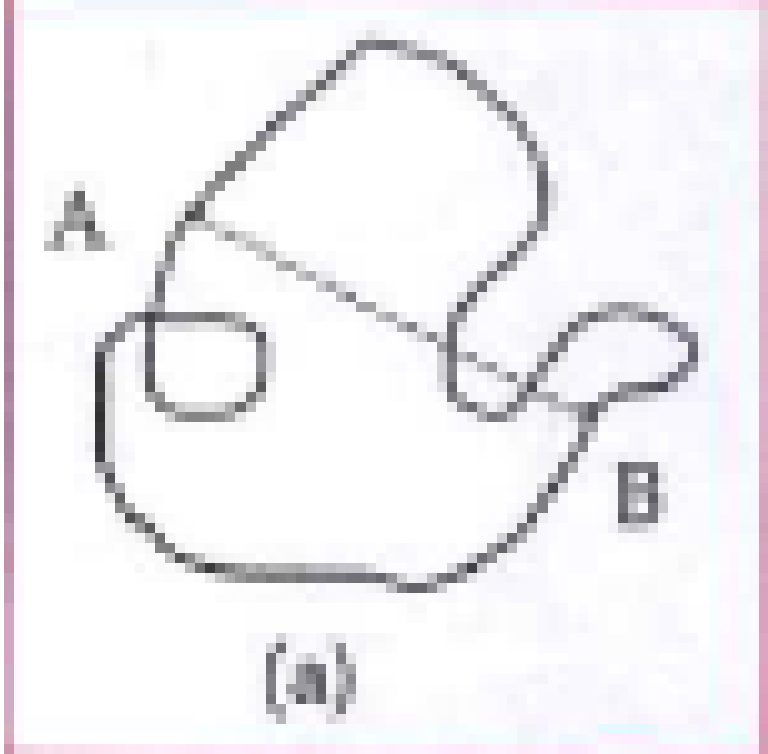
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45. Draw the symbol for voltmeter and state its use.



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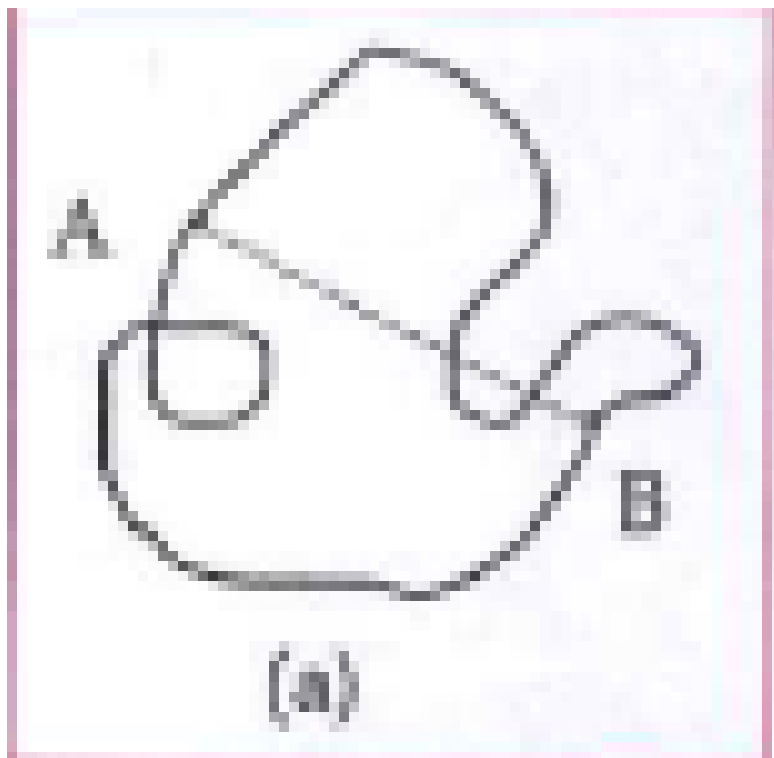
46. Measure the distance between points A and B in different ways as shown in figure (a).



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48. Every morning, Swaralee walks round the edge of a circular field having a radius of 100

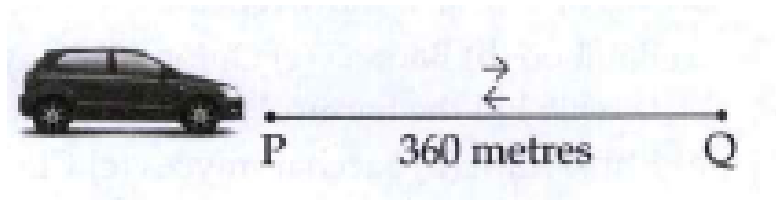
m. As shown in figure, if she starts from the point A and takes one round, how much distance has she walked and what is her displacement?



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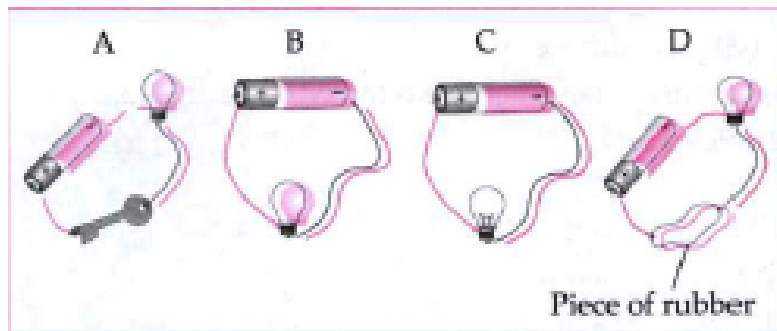
49. If a car, starting from point P, goes to point Q (see figure) and then returns to point P, how much distance has it travelled and what is its

displacement?



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50. Point out the mistakes in the figure given below.



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51. How will the compounds, $MgCl_2$ and CaO be formed from their elements?



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52. Solve:

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55. Suppose Rajashree, Yash and Ranjeet have to reach the top of a small hill. Rajashree went by car. Yash went cycling while Ranjeet went walking. If all of them choose the same path, who will reach first and who will reach last?



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56. M is a bivalent metal. Write down the steps to find the chemical formulae of its compounds formed with the radicals sulphate and phosphate.



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57. Answer the following: (Any 2)..

What are the implications of Newton's third Law of motion?



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58. Explain by drawing a figure of the electronic configuration.

Formation of sodium chloride from sodium and chlorine.



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59. Explain by drawing a figure of the electronic configuration.

Formation of Magnesium chloride from magnesium and chlorine.



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