



PHYSICS

BOOKS - KUMAR PRAKASHAN KENDRA

PHYSICS (GUJRATI ENGLISH)

QUESTION PAPER 02

Section A

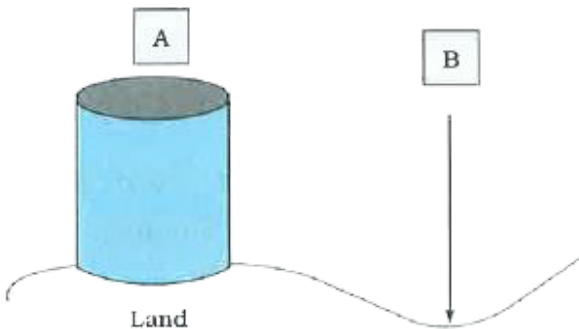
1. Which of the following statements is true for displacement ?

(1) It cannot be zero.

(2) Its magnitude is more than the distance covered by the object .

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2. From the figure given below say , which object will go deeper in the land ? Object A or object B ?





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3. What does the odometer of an automobile measure ?



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4. Which of the following statements is true for displacement ?

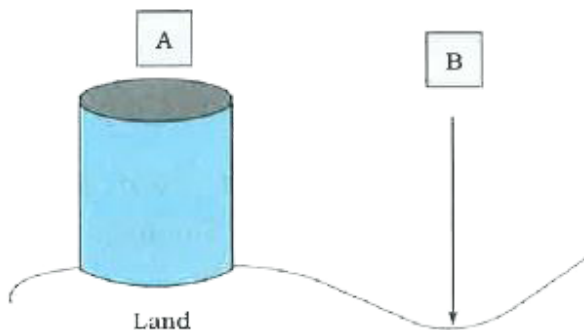
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5. From the figure given below say , which object will go deeper in the land ? Object A or object B ?



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6. What does the odometer of an automobile measure ?



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Section B

1. Amit buys some gram of gold on North pole as his friend told him. He sold this gold to his friend on equator .Will his friend be happy

with the weight of gold that he bought ? Why .

(Hint : The magnitude of g on the poles is more than that at equator).



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2. A child throws a rubber ball upward , then what type of work is done in two situations given below ? Positive or negative .

(a) Force given by a child .

(b) By gravitational force of the earth .



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3. When electric bulbs are connected to battery they glow , state the energy transformation in two phenomena given below :

(1) In battery .

(2) In an electric bulb.



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5. A child throws a rubber ball upward , then what type of work is done in two situations given below ? Positive or negative .

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6. When electric bulbs are connected to battery they glow , state the energy transformation in two phenomena given below :

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(2) In an electric bulb.



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7. NAND gate means

- A. Inversion followed by AND gates
- B. AND gates followed by an inverter
- C. AND gate followed by OR gate
- D. None of these

Answer:



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Section C

1. Derive the mathematical formulation of Newton's second law of motion $F = ma$.



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2. Give reasons for the following :

(1) It is advisable to fasten the seat belt while travelling in a running car .

(2) In a high jump , athletes jump on mattress.



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3. Derive the mathematical formulation of Newton's second law of motion $F = ma$.



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4. The output of the two-input NAND gate is high

A. Only if both the inputs are high

B. Only if one input is high and the other is

low

C. Only if both the inputs are low

D. If at least one input is low

Answer:



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5. A NOR gate means

A. Inversion followed by an OR gate

B. OR gate followed by an inverter

C. NOT gate followed by an OR gate

D. NAND gate followed by an OR gate

Answer:



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Section D

1. Write the type of energy and derive the formula for kinetic energy .



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