



PHYSICS

BOOKS - KUMAR PRAKASHAN KENDRA

PHYSICS (GUJRATI ENGLISH)

QUESTION PAPER 03

Section A

1. Discovery of electron was done by scientist

..... .



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2. who is father of electron?



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3. If velocity-time graph for a body in motion is a straight line parallel to time axis, what type of motion is the body performing ?



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4. Which of the following is not an example of circular motion ?

A. Revolution of the earth around the sun.

B . The motion of a racing car on a circular path.

C . The motion of a toy - train on a circular path .

D . The motion of minute hand of a wall - clock.



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5. Discovery of proton done by the scientist.....



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6. The output of two-input NOR gate is high

A. Only if both the inputs are high

B. Only if both the inputs are low

C. Only if one input is high and the other is
low

D. If at least one input is high

Answer:



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7. Which of the following is not an example of circular motion ?

A. Revolution of the earth around the sun.

B . The motion of a racing car on a circular path.

C . The motion of a toy - train on a circular

path .

D . The motion of minute hand of a wall - clock.



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8. What is the temperature on the moon ?



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Section B

1. A hammer of mass 500g strikes an iron nail with speed of 50 m/s. If the nail stops , the hammer in a short duration of 0.01s , then find the force acting on the nail by the hammer .



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2. The velocity of an object of mass 200 kg , performing unifrom acceleration motion , change from 5 m/s to 10 m/s in 6s then

calculate the initial and final momentum of this object.



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3. Calculate the weight of a man on the moon whose mass is 70kg . What is his mass on the moon ? (g on the moon = $1.6ms^{-2}$)



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4. Define work . State its formula and SI unit .



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5. Which property of wave determines pitch and which property determines intensity ? Explain it .



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9. Define work . State its formula and SI unit .



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10. Which property of wave determines pitch and which property determines intensity ?

Explain it .



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Section C

1. State characteristics of particles of matter .



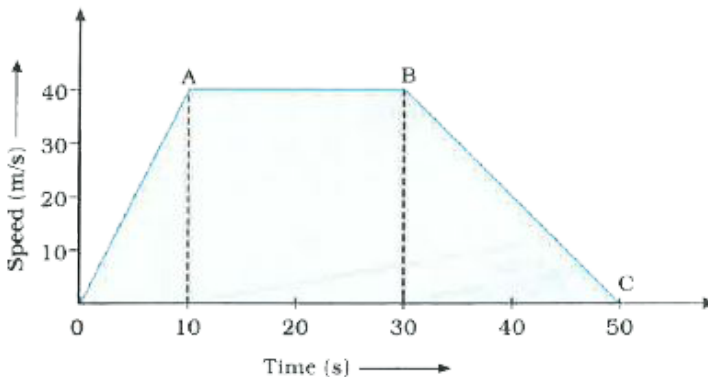
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2. dicoverly of photon was done by scientist.....



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3. A graph of speed \rightarrow time for a motin of a train is given. Study it and answer the following question .



(1) Which type of motion would be from point

0 to A ?

(2) Which type of motion does AB show ?

(3) Find the retardation for the motion from point b to C .



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4. In a house 450 units electric - energy is used , then what would be this energy in joule ?

(b) " Green seeds of foodgrains are drying in the sunlight . " State work is done in this case or not ?



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5. Give an example in which though force is applied medium is essential for propagation of sound waves'. Explain the experiment with diagram .



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6. Material medium is essential for propagation of sound waves'. Explain the experiment with diagram .



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7. The output of the two-input OR gate is high

A. Only if both inputs are high

B. Only if both inputs are low

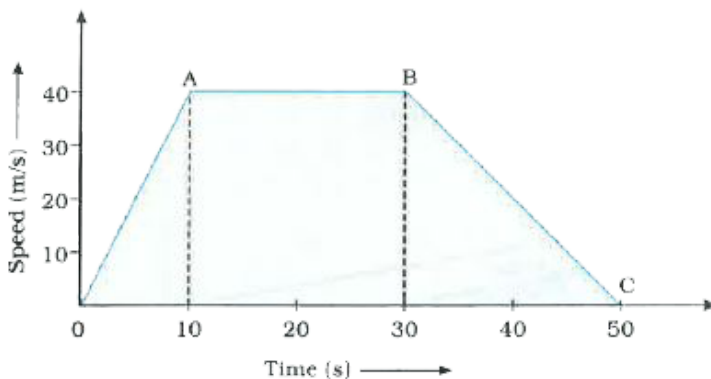
C. Only if one input is high and the other is
low

D. If at least one of the inputs is high

Answer:



8. A graph of speed \rightarrow time for a motion of a train is given. Study it and answer the following question .



- (1) Which type of motion would be from point 0 to A ?
- (2) Which type of motion does AB show ?

(3) Find the retardation for the motion from point b to C .



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9. In a house 450 units electric - energy is used , then what would be this energy in joule ?

(b) " Green seeds of foodgrains are drying in the sunlight . " State work is done in this case or not ?



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10. Give an example in which though force is applied medium is essential for propagation of sound waves'. Explain the experiment with diagram .



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11. Material medium is essential for propagation of sound waves'. Explain the experiment with diagram .



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Section D

1. According to Newton's second law of motion, derive the formula of force. State SI unit of force, define 1N force.



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2. According to Newton's second law of motion, derive the formula of force. State SI unit of force, define 1N force.



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3. Universal law of gravitation is used only when the gravitational force ...



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