PHYSICS

BOOKS - MAXIMUM PUBLICATION

MODEL PAPER 3

Example

1. Identify the relation between the first pair and complete the second

Momentum : $m \times v$, Impulse: _____

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2. Find the odd one ....(a)F (b)(m v – m u)/ t (c)m v – m u (d)ma

A. F

B. $\frac{mv - mu}{t}$

C. $mv - mu$

D. ma

Answer: C

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3. The earth is not a perfect sphere, its radius is not the same everywhere If so, will the value of g be the same everywhere on earth?

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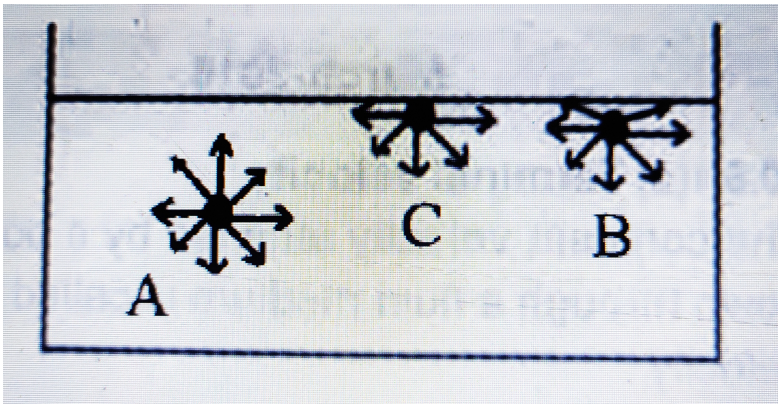
4. What is the reason for surface tension?



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5. State Pascal's law

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6. What is the basis of Pascal's law?

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7. A car of 1000kg moves with a velocity $20m/s$. On applying brakes it comes to rest in 5s.

What is the initial momentum?

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8. A car of 1000kg moves with a velocity $20m/s$. On applying brakes it comes to rest in 5s.

What is the final momentum?

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9. When a stone of mass 50 kg and another of mass 5 kg fall down simultaneously form the top of a five storey building, which one will reach the ground first?

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10. Write the equation of motion. What does each letter indicate?

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11. We are familiar with Newton's laws of motion.

Using the Newton's second law,explain:

(i)impulse momentum principle.

(ii)Law of conservation of linear momentum.

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12. A ball thrown vertically upward reached a maximum height of $20m$.

What was the velocity of the stone at the instant of throwing up?

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13. A ball thrown vertically upward reached a maximum height of $20m$.

How mch time did the ball take to reach the height $20m$?

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14. Name three devices constituted o the basis of Pascal's law

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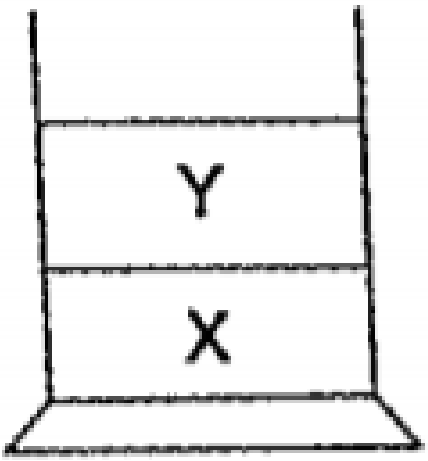
15. The figure shows a jar containing honey and kerosene

Which is the liquid labelled as X



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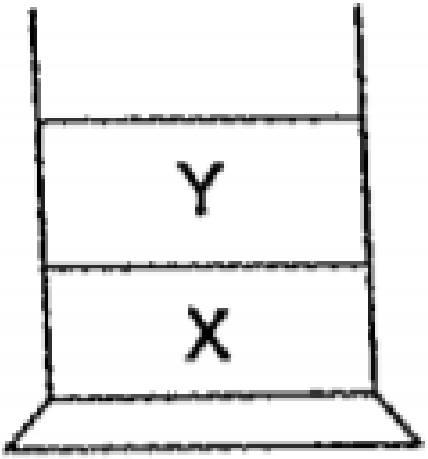
16. The figure shows a jar containing honey and kerosene

Which liquid is the mobile liquid?



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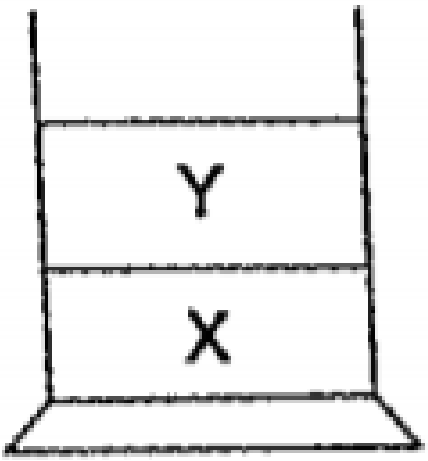
17. The figure shows a jar containing honey and kerosene

Which liquid has higher buouancy?



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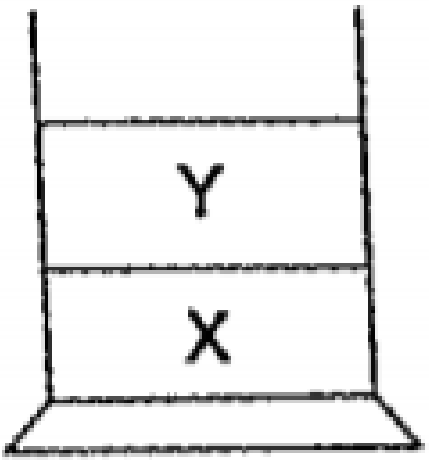
18. The figure shows a jar containing honey and kerosene

Suggest a method to reduce the viscosity of a

liquid



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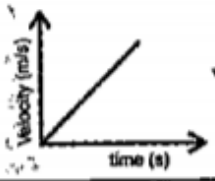
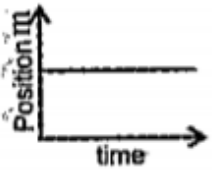
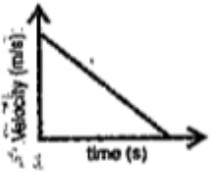
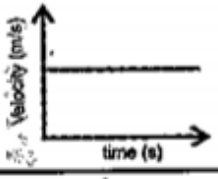
19. Match the following

A	B
State of rest	
uniform velocity	
uniform acceleration	
uniform retardation	

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20. Complete the table

$m_{1\ (kg)}$	$m_{2\ (kg)}$	$d_{(m)}$	$F_{(N)}$
10	10	1	F
5	10	1	(a)
5	5	1	(b)
10	10	2	(c)
10	10	½	(d)

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21. Write down situation related to each

Inertia of rest

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22. Write down situation related to each inertia of motion

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23. Write down situation related to each Newton's third law of motion

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24. Write down situation related to each

Newton's second law of motion

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