



PHYSICS

BOOKS - VGS BRILLIANT PHYSICS (TELUGU ENGLISH)

AP MARCH-2018

Section A

1. What is the discovery of C.V. Raman ?



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2. How can systematic errors be minimised or eliminated?



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3. When two right angled vectors of magnitude 7 units and 24 units combine, what is the magnitude of their resultant ?



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4. A horse has to pull harder during the start of the motion than later . Explain .



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5. Why are drops and bubbles spherical?



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6. Mention any two examples (or) applications that Obey Bernoullis theorem and justify

them.



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7. State Newton's law of cooling.



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8. Can a substance contract on heating ? Given an example.



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9. State Boyle's law and Charles law.



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10. Define mean free path.



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Section B

1. Show that the trajectory of an object thrown at certain angle with the horizontal is a parabola .



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2. A car travels the first third of a distance with a speed of 10 kmph, the second third at 20 kmph and the last third at 60 kmph. What is its mean speed over the entire distance?



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3. Explain Friction . Mention the methods used to decrease friction .



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4. Distinguish between centre of mass and centre of gravity .



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5. Find the centre of mass of three particles at the vertices of an equilateral triangle. The masses of the particles are 100g, 150g and 200g respectively. Each side of the equilateral triangle is 0.5 m long, 100g mass is at origin and 150g mass is on the X-axis.



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6. What is escape velocity? Obtain an expression for it.





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7. In what way is the anomalous behaviour of water advantageous to aquatic animals ?



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Section C

1. A machine gun fire 360 bullets per minute and each bullet travels with a velocity of 600

m/s. If the mass of each bullet is 5 gm, find the power of the machine gun.



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