



PHYSICS

BOOKS - VGS BRILLIANT PHYSICS (TELUGU ENGLISH)

TS MARCH- 2019

Section A

1. What is the contribution of S. Chandra Sekhar to Physics ?



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2. Define unified atomic mass unit and write its value in kg.



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3. What is the acceleration of a projectile at the top of its trajectory ?



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4. What happens to coefficient of friction if the weight of the body is doubled?



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5. What is magnus effect?



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6. What is hydrostatic paradox?



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7. If the maximum intensity of radiation for a black is found at $1.45 \mu m$, what is the temperature of radiating body? (Wien's constant $= 2.9 \times 10^{-3} mk$)



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8. Why do liquids have on linear and areal expansions?



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9. When does a real gas behave like an ideal gas?



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10. The absolute temperature of a gas is increased 3 times. What will be the increase in rms velocity of the gas molecule?



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1. O' is a point on the ground chosen as origin . A body first suffers a displacement of $10\sqrt{2}$ mm North -East, next 10 m North and finally $10\sqrt{2}$ North-West . How far it is from origin ?



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2. Explain the various methods to minimise the friction.



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3. What is the moment of Inertia of a rod of mass M and length L about an axis perpendicular to it and passing through one end?



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4. Define vector product of two vectors and write any two properties of it.



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



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6. Define strain energy and derive the equation for the same.



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7. Pendulum clocks generally go fast in winter and slow in summer. Why ?



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