



PHYSICS

BOOKS - NAVNEET SCIENCE (HINGLISH)

LAWS, RULES, UNITS AND DEFINITIONS

Gravitation

1. What is centripetal force ?



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2. Define centripetal force?



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3. Write the three laws given by Kepler. How did they help Newton to arrive at the inverse square law of gravity?



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4. Write the three laws given by Kepler. How did they help Newton to arrive at the inverse square law of gravity?



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5. Kepler's Law



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6. Assume that the force of gravitation

$F \propto \frac{1}{r^n}$. Then show that the orbital speed in

a circular orbit of radius r is proportional to

$\frac{1}{r^{(n-1)/2}}$, while its period T is proportional

to $r^{(n+1)/2}$



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7. State Newton's universal law of gravitation.

Express it in mathematical form.



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8. Determine the SI unit of the universal constant of gravitation from the formula for the gravitational force between two particles. Hence, state the CGS unit of the constant of gravitation



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9. Define G (universal gravitational constant).



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10. What is the acceleration due to gravity?



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11. Define acceleration due to gravity .



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12. What is free fall ?



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13. Define free fall.



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14. What is gravitational potential energy ?



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15. Define gravitational potential energy.

Write the formula for it .



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16. What is escape velocity ?



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17. Define escape velocity.



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Periodic Classification Of Elements

1. State Dobereiner's law of triads giving one example .



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2. What is meant by Newlands law of octaves?



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3. State Mendeleev's periodic law.



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4. State the modern periodic law.



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5. What is meant by modern periodic table ?



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6. What is meant by periodic trends in the modern periodic table ?



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Chemical Reactions And Equations

1. What do you understand by a chemical change ?



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2. Define : Chemical change.



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3. What is meant by a chemical reaction?



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4. Explain the term reactant and product giving examples.



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5. What is combination reaction ? Give an example.



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6. COMBINATION REACTION



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7. What is meant by a decomposition reaction ?



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8. What is meant by thermal decomposition reaction ? Explain with an example.



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9. What is meant by an electrolytic decomposition ?



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10. What is meant by a displacement reaction ?



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11. DOUBLE DISPLACEMENT REACTION



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12. What do you mean by slow speed reaction ?



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13. Define: Slow speed reaction.



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14. Define : Fast speed reaction .



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**15. OXIDATION REACTION OF CARBONYL
COMPOUND**





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16. What do you mean by oxidant ? Explain with suitable example.



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17. Define : Reduction reaction.



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18. What do you mean by reductant ? Explain with suitable example.



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19. What is corrosion ?



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20. RANCIDITY



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Effects Of Electric Current

1. Define electric power and give its unit.



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2. State the formula for electric power. Hence, obtain its SI unit.



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3. What is the commercial unit of electric energy? Obtain the relation between this unit and the SI unit of energy.



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4. What is one kilowatt hour?



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5. State Joule's law about heating effect of electric current.



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6. State the right hand thumb rule.



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7. Write Fleming's left hand rule.



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8. What is electric motor ?



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9. What is electromagnetic induction?



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10. State Faraday's law of induction.



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11. State Right hand rule with a labelled diagram.



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Heat

1. Define latent heat of fusion.



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2. What is latent heat of fusion? State its units.



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3. Define specific latent heat of fusion.



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4. What is specific latent heat of fusion ?

State its units.



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5. Define normal boiling point of a liquid.



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6. What is specific latent heat of vaporization ?



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7. Define regelation .



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8. Define dew point temperature.



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9. Define absolute humidity. OR

What is absolute humidity? State its unit.



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10. Define relative humidity . OR

What is relative humidity ?

Write the formula for % relative humidity .



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11. Define relative humidity . OR

What is relative humidity ?

Write the formula for % relative humidity .



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12. State the relation between the joule and the kilocalorie.



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13. Define specific heat capacity .



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14. Determine the unit of specific heat capacity.



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15. Which principle is used to measure the specific heat capacity of a substance?



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Refraction Of Light

1. What is meant by refraction of light ?



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2. Define angle of incidence and angle of refraction.



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3. State laws of refraction of light.



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4. Define the refraction index of the second medium with respect to the first medium.



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5. Define absolute refraction index.



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6. What do you mean by dispersion of light ?



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7. What is a spectrum of light ?



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8. Name the different colours of light in the proper sequence in the spectrum of white light.



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9. What is partial reflection of light ?



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10. Define total internal reflection of light.



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11. Define critical angle.



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12. Define the following terms in the context of spherical mirrors :

(i) Pole

(ii) Centre of curvature

(iii) Radius of curvature

(iv) Principal axis

(v) Principal focus



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13. State the rules used for drawing ray diagrams for the formation of an image by a convex lens .



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14. State the rules used for drawing ray diagrams for the formation of an image by a concave lens.



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15. What are the Cartesian sign convention for refraction of light (image formation) by a lens. Draw diagrams to illustrate the same.



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16. What is a lens formula ? State it.



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17. What is meant by the magnification produced by a lens State the formulae for it.



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18. What is the power of a lens ?



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19. What is the unit of power of a lens ?

Define it .



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20. What is meant by the power of accommodation of the eye ?



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21. What is meant by the minimum distance of distinct vision ?



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22. What is persistence of vision ? Give one example of persistence of vision.



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1. What is meant by ductility ?



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2. What is meant by malleability ?



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3. What is meant by an ionic bond ?



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4. What is meant by an ionic compound ?



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5. MINERALS



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6. Explain the Gangue .



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7. Explain the Ores.



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8. Explain the Metallurgy .



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9. Concentration of Ores



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10. Explain the Roasting .



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11. What is Calcination ?



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12. Explain:

(i). Zone refining

(ii). Column chromatography.



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13. Explain the term corrosion with a suitable example.



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14. What is corrosion ?



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1. What is meant by catenation power ?



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2. COPOLYMERS POLYMERS



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3. Explain the Monomer.



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4. Explain the Oxidants.



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5. Explain the Reduction.



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6. Which is not a homopolymer :-



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7. What is meant by a covalent bond ?



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8. Explain the term covalent bond with example .



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9. Explain the term with example : Structural isomerism



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10. Explain the term with example : Hetero atom in a carbon compound



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11. Define the Alkane ?



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12. ALKENE



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13. ALKYNE



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14. ADDITION REACTION ON ALKENE



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15. Substitution reaction



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16. In esterfication



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17. Define Saponification.



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18. Define the terms

Polymerization



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