



# PHYSICS

## BOOKS - NAVNEET SCIENCE (HINGLISH)

### MATCH THE COLUMNS

**Heredity And Evolution**

# 1. choose the correct option

(1)	Scientist	Discovery
(1)	Johann Gregor Mendel	(a) DNA is genetic material
(2)	Hugo de Vries	(b) Pioneer of the modern genetics
		(c) Mutational theory
		(d) Theory of natural selection



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(2)	Scientist	Discovery
(1)	Walter and Sutton	(a) Chromosomes of grasshopper
(2)	Mclyn McCarthy	(b) DNA is genetic material
		(c) Pioneer of the modern genetics
		(d) Acquired characters

2.



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(3) Evidences of evolution	Examples
(1) Morphological evidences	(a) Remnants and impressions
(2) Anatomical evidences	(b) Human hand and forelimb of ox
	(c) Shape and venation of leaf
	(d) Brain of ape and man

3.



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(4) Evidences of evolution	Examples
(1) Palaeontological evidences	(a) Duck billed Platypus and Peripatus
(2) Connecting links	(b) Remnants and impressions
	(c) Coccyx and wisdom tooth
	(d) Appendix

4.



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# 1. Match the both Columns :

(1) Protein	Part of the body (July'19)
(1) Haemoglobin	(a) skin
(2) Ossein	(b) bones
	(c) blood
	(d) muscles



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(2) Protein	Part of the body
(1) Keratin	(a) muscles
(2) Myosin	(b) skin
	(c) bones
	(d) blood

2.



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# Life Processes In Living Organisms Part 2

(1) Type of Reproduction	Examples
(1) Fragmentation	(a) Paramecium
(2) Transverse binary fission	(b) Euglena
	(c) Sycon
	(d) Planaria

1.



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2. choose the correct option

(2) Type of Reproduction	Examples
(1) Vegetative Propagation	(a) Yeast
(2) Budding	(b) <i>Paramecium</i>
	(c) Rose
	(d) Sycon



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# Environmental Management

1.

(1) Column I	Column II
(1) Physical, chemical and biological factors together form	(a) Biodiversity (b) Ecosystem
(2) The science of interactions between biotic and abiotic factors	(c) Ecology (d) Environment



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2.

(2) Column I	Column II
(1) Basic functional unit in the environment	(a) Biodiversity (b) Ecosystem
(2) Different types of living organisms	(c) Ecology (d) Environment



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### 3. choose the correct option

(3)	Rules/Act	Year
(1)	Sound Pollution (Control & Prevention) Rule	(a) 1980
(2)	Biomedical Waste (Management & Handling) Rule	(b) 1998
		(c) 2000
		(d) 2016



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### 4. choose the correct option

(4)	Species	Examples
(1)	Endangered Species	(a) Red panda, Musk deer
(2)	Rare Species	(b) Tiger, Lion
		(c) Lion tailed monkey, lesser florican
		(d) Cheetah



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(5) Species	Examples
(1) Vulnerable Species	(a) Giant squirrel (Shekhru)
(2) Indeterminate Species	(b) Tiger, Lion
	(c) Lion tailed monkey, lesser florican
	(d) Sparrows

5.



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## Towards Green Energy

1. choose the correct option

(1) Column I	Column II
(1) Polluting energy	(a) Soot particles
(2) Eco-friendly energy	(b) Thermal energy
	(c) Wind energy
	(d) Carbon monoxide



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## 2. MATCH THE COLUMNS

(2) Type of energy	Problem
(1) Nuclear energy	(a) Rehabilitation of displaced people
(2) Natural gas	(b) Limited reserves
	(c) Disposal of wastes
	(d) Water accumulation



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## Animal Classification

1. 



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(2) Phylum	Characteristics
(1) Porifera	(a) Tunic
(2) Coelenterata	(b) Collar cells
	(c) Tentacles bearing cnidoblasts
	(d) Mantle

2. \_\_\_\_\_



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(3) Subphylum/Class	Characteristics
(1) Cyclostomata	(a) Mantle
(2) Urochordata	(b) Sucker
	(c) Tunic
	(d) Chitinous exoskeleton

3. \_\_\_\_\_



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# Introduction To Microbiology

(1) 'A' group	'B' group
(1) Xylitol	(a) To impart acidity
(2) Citric acid	(b) To impart sweetness
	(c) Microbial restrictor
	(d) Bioremediation

1.



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(2) 'A' group	'B' group
(1) Lycopene	(a) Protein binding emulsifier
(2) Nycin	(b) Pigment
	(c) Microbial restrictor
	(d) Antibiotics

2.



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(3) Column 'A'	Column 'B'
(1) Vinegar	(a) Polylactic acid
(2) Xanthan gum	(b) Icecreams and puddings
	(c) Acetic acid
	(d) Sweetener substance

3.



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## Cell Biology And Biotechnology

(1) Column 'A'	Column 'B'
(1) Interferon	(a) Dwarfness
(2) Factor VIII	(b) Viral infection
	(c) Haemophilia
	(d) Thalassemia

1.



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(2) Column 'A'	Column 'B'
(1) Somatostatin	(a) Diabetes
(2) Interleukin	(b) Cancer
	(c) Dwarfness
	(d) AIDS

2.



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(3) Organism	Substance that is absorbed
(1) <i>Pseudomonas</i>	(a) Radiations
(2) <i>Pteris vitata</i>	(b) Hydrocarbons
	(c) Arsenic
	(d) Uranium

3.



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(4) Organism	Substance that is absorbed
(1) Indian mustard	(a) Radiations
(2) <i>Deinococcus radiodurans</i>	(b) Selenium
	(c) Arsenic
	(d) Uranium

4.



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## Social Health

'A' Group	'B' Group
Saham Mumbai Foundation	(a) Work against alcoholism
	(b) Freedom from tobacco
	(c) Laughter club
	(d) Help to improve student's life style

1.



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# Disaster Management

## 1. Match the columns

(1) Column A : Disaster	Column B : Type
(1) Earthquake and volcano	(a) Intentional
(2) Snowfall and snowstorms	(b) Geological
	(c) Climatic
	(d) Man-made



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## 2. Match the following Column - A and Column

- B :

(2) Column A : Disaster	Column B : Type
(1) Atomic tests	(a) Intentional
(2) Terrorism	(b) Unintentional
	(c) Animal origin
	(d) Climatic



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Others

## 1. Match the following

Column A	Column B
(1) Escape velocity	(a) $\frac{-GMm}{R+h}$
(2) Gravitational acceleration	(b) $\sqrt{\frac{2GM}{R}}$
	(c) $\frac{Gm_1m_2}{r^2}$ (d) $\frac{GM}{r^2} (r \geq R)$



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2. Match the following columns

(1) Column I	Column II
(1) Modern periodic table	(a) Group 17
(2) Vertical columns	(b) Period 2
	(c) Atomic number (d) Group



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3. Match the following columns

(2) Column I	Column II
(1) Dobereiner	(a) Atomic number
(2) Newlands	(b) Triads
	(c) Atomic mass
	(d) Octaves



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## 4. Match the following

(3)	Column I	Column II
(1)	Eka-silicon	(a) Scandium
(2)	Eka-boron	(b) Gallium
		(c) Germanium
		(d) Caesium



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## 5. Match the following columns

(4)	Column I	Column II
(1)	Noble gas	(a) 18 elements
(2)	First period	(b) Eight elements
		(c) Two elements
		(d) Helium



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## 6. Match the following columns

(5) Column I	Column II
(1) s-block elements	(a) Lanthanides and actinides
(2) p-block elements	(b) Groups 1, 2
	(c) Groups 13 to 18 and zero group
	(d) Groups 3 to 12



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## 7. Match the Column-I to Column-II :

(1) Column I	Column II
(1) Reduction	(a) Type of chemical reaction
(2) Oxidation	(b) Combination with hydrogen
	(c) Losing hydrogen
	(d) Exchange of ions



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## 8. Match the following columns

(2) Column I	Column II
(1) Oils and fats are allowed to stand in air for a long time	(a) Slow reaction
(2) NaOH dissolves in water	(b) Rancid
	(c) Exothermic reaction
	(d) Colourless solution



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## 9. Match the following columns

(3) Column I	Column II
(1) Combination reaction	(a) $\text{Zn} + 2\text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2 \uparrow$
(2) Double displacement reaction	(b) $\text{C}_{12}\text{H}_{22}\text{O}_{11(\text{s})} \xrightarrow{\Delta} 12\text{C}_{(\text{s})} + 11\text{H}_2\text{O}_{(\text{g})}$
	(c) $2\text{Cu} + \text{O}_2 \rightarrow 2\text{CuO}$
	(d) $\text{AgNO}_3 + \text{NaCl} \rightarrow \text{AgCl} \downarrow + \text{NaNO}_3$



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## 10. MATCH THE COLUMNS

Column A	Column B
(1) Latent heat	(a) $Q = mc\Delta T$
(2) Specific heat capacity	(b) $Q = mL$
	(c) kcal
	(d) cal/g $\cdot$ °C



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# 11. MATCH THE COLUMNS

(1) Column A	Column B
(1) Conical cells	(a) Intensity of light
(2) Rod like cells	(b) Colour of an image
	(c) Iris
	(d) Transparent



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# 12. MATCH THE COLUMNS

(2) Column A	Column B
(1) Magnification	(a) $\frac{1}{f}$
(2) Power of a lens	(b) $\frac{h_2}{h_1}$
	(c) $f$
	(d) $\frac{h_1}{h_2}$



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### 13. Match the following

(3) Column A	Column B
(1) Nearsightedness	(a) Ciliary muscles become weak
(2) Farsightedness	(b) Image in front of the retina
	(c) Colour-blindness
	(d) Image behind the retina



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### 14. Match the following columns

(1) Column I	Column II
(1) ZnS	(a) Cuprous sulphide
(2) HgS	(b) Bauxite
	(c) Zinc blend
	(d) Cinnabar



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15. Match the following columns

(2) Column I Substance	Column II Property
(1) Potassium bromide	(a) Combustible
(2) Gold	(b) Soluble in water
	(c) No chemical reaction
	(d) High ductility



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16. Match the following columns

(3) Column I	Column II
(1) Copper and zinc	(a) Stainless steel
(2) Copper and tin	(b) Steel
	(c) Brass
	(d) Bronze





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17. Match the following columns

(4) Column I (ores)	Column II (metals)
(1) Bauxite	(a) Mercury
(2) Cassiterite	(b) Aluminium
	(c) Tin
	(d) Copper



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18. Match the following columns

(5) Column I	Column II
(1) Galvanising	(a) Pressure cooker
(2) Tinning	(b) Silver plated spoons
	(c) Coating of tin on copper
	(d) Coating of Zn on iron



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19. Match the following columns

(1)	Column I	Column II
(1)	$\text{CH}_4$	(a) $\text{CH}_2 = \text{CH}_2$
(2)	Ethane	(b) $\text{C}_n\text{H}_{2n-2}$
		(c) Methane
		(d) $\text{C}_2\text{H}_6$
		(e) $\text{C}_3\text{H}_8$



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20. Match the following columns

(2) Column I	Column II
(1) Aromatic hydrocarbon	(a) Propyne
(2) Alkane	(b) Benzene
	(c) Saturated hydrocarbon
	(d) $C_nH_{2n}$



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21. Match the following columns

(3) Column I	Column II
(1) - OH	(a) Aldehyde
(2) - COOH	(b) Ketone
	(c) Alcohol
	(d) Carboxylic acid



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22. Match the following columns

(4) Column I	Column II
(1) Ethyne	(a) $C_2H_6$
(2) Ethene	(b) $C_2H_2$
	(c) $C_3H_6$
	(d) $C_2H_4$



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23. choose the correct option

(5) Column I	Column II
(1) Cellulose	(a) P.V.C. pipes, bags
(2) R.N.A.	(b) Blankets
	(c) Wood
	(d) Chromosomes of plants



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## 24. Match the Column-I to Column-II :

(6) Column I	Column II (July '19)
(1) Ethanol	(a) Hydrogen peroxide
(2) Methane	(b) Tincture iodine
	(c) Biogas
	(d) Teflon coated vessels



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## 25. MATCH THE COLUMNS

Column A	Column B
(1) Clouds over India	(a) PSLV
(2) Global communication	(b) Communication satellite
	(c) EDUSAT
	(d) Weather satellite



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## 26. Match the following

(1) Column A (Convex lens)	Column B (Ch. 7)
(1) Object at $2F_1$	(a) Image virtual, erect and enlarged
(2) Object between $F_1$ and $2F_1$	(b) Image real, inverted and of the same size
	(c) Image real, inverted and diminished
	(d) Image real, inverted and enlarged



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## 27. Match the following

(2) Column A	Column B (Ch. 9)
(1) Cyclohexane	(a) $\text{CH}_3\text{COOH}$
(2) Methyl alcohol	(b) $\text{C}_6\text{H}_{12}$
	(c) $\text{CH}_3\text{OH}$
	(d) $\text{CH}_3\text{CHO}$



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