

ਵਿਗਿਆਨ  
ਸ਼੍ਰੇਣੀ ਦਸਵੀਂ

ਸਮਾਂ: 3 ਘੰਟੇ

ਲਿਖਤੀ: 80 ਅੰਕ  
ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ: 20 ਅੰਕ  
ਕੁੱਲ: 100 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਬਣਤਰ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ 28 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ। ਅੰਕ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੈ।

ਪਾਠ ਨੰ.	ਪਾਠ ਦਾ ਨਾਂ	1 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	2 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	3 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	5 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	ਕੁੱਲ ਅੰਕ
1.	ਰਸਾਇਣਕ ਕਿਰਿਆਵਾਂ ਅਤੇ ਸਮੀਕਰਨਾਂ	2	1	1	0	7
2.	ਤੇਜਾਬ ਖਾਰ ਅਤੇ ਲੂਣ	2	1	0	0	4
3.	ਧਾਤਾਂ ਅਤੇ ਅਧਾਤਾਂ	2	0	0	1	7
4.	ਕਾਰਬਨ ਅਤੇ ਇਸਦੇ ਯੋਗਿਕ	1	1	1	0	6
5.	ਜੈਵਿਕ ਪ੍ਰਕਿਰਿਆਵਾਂ	3	2	0	0	7
6.	ਕਾਬੂ ਅਤੇ ਤਾਲਮੇਲ	2	1	1	0	7
7.	ਜੀਵ ਪ੍ਰਜਨਨ ਕਿਵੇਂ ਕਰਦੇ ਹਨ।	2	0	0	1	7
8.	ਅਨੁਵੰਸ਼ਿਕਤਾ	1	1	0	0	3
9.	ਪ੍ਰਕਾਸ਼ ਪਰਾਵਰਤਨ ਅਤੇ ਅਪਵਰਤਨ	2	1	1	0	7
10.	ਮਨੁੱਖੀ ਅੱਖ ਅਤੇ ਰੰਗ ਬਿਰੰਗਾ ਸੰਸਾਰ	2	1	1	0	7
11.	ਬਿਜਲੀ	2	0	0	1	7
12.	ਬਿਜਲੀ ਧਾਰਾ ਦੇ ਚੁੰਬਕੀ ਪ੍ਰਭਾਵ	2	1	0	0	4
13.	ਸਾਡਾ ਵਾਤਾਵਰਨ	2	1	1	0	7
	ਕੁੱਲ ਪ੍ਰਸ਼ਨ	25×1=25	11×2=22	6×3=18	3×5=15	80

- ਪ੍ਰਸ਼ਨ ਨੰਬਰ 1 ਦੇ 25 ਭਾਗ ਹੋਣਗੇ। ਹਰੇਕ ਭਾਗ ਇੱਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। (ਭਾਵ 1 ਤੋਂ 20 ਬਹੁ ਵਿਕਲਪੀ ਅਤੇ 21 ਤੋਂ 25 ਮਿਲਾਣ ਕਰੋ/ਖਾਲੀ ਥਾਵਾਂ/ ਸਹੀ/ਗਲਤ)
- ਪ੍ਰਸ਼ਨ ਨੰਬਰ 2 ਤੋਂ 16 ਤੱਕ ਦੋ-ਦੋ ਅੰਕ ਵਾਲੇ ਹੋਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 30-40 ਸ਼ਬਦਾਂ ਦਾ ਹੋਵੇਗਾ। ਇਨ੍ਹਾਂ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਕੋਈ 11 ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ।



3. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 17 ਤੋਂ 25 ਤੱਕ ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 50-60 ਸ਼ਬਦਾਂ ਦਾ ਹੋਵੇਗਾ। ਵਿਦਿਆਰਥੀ ਇਨ੍ਹਾਂ 9 ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਕੋਈ 6 ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰੇਗਾ।
4. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 26 ਤੋਂ 28 ਤੱਕ ਪੰਜ-ਪੰਜ ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਭਗ 100 ਤੋਂ 120 ਸ਼ਬਦਾਂ ਵਿੱਚ ਹੋਵੇਗਾ। ਇਨ੍ਹਾਂ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ। ਅੰਦਰੂਨੀ ਛੋਟ ਵਾਲਾ ਪ੍ਰਸ਼ਨ ਉਸੇ ਇਕਾਈ ਵਿੱਚੋਂ ਹੋਵੇਗਾ।

## Model Test Paper

### SCIENCE

Class-10<sup>th</sup>

Max. Marks 80

#### Q.1 Attempt the following Multiple Choice Questions.

- I. Gurpreet brought some mint from the market. After some days there was a strong smell from mint. Why did this happen?
  - a) Reduction
  - b) Oxidation
  - c) Corrosion
  - d) Displacement
  - e)
- II. When we mix lead nitrate and potassium iodide, yellow precipitate is formed. Can you name the precipitate?
  - a) lead oxide
  - b) potassium nitrate
  - c) potassium oxide
  - d) lead iodide
- III. PH of a neutral solution is
  - a) Less than 7
  - b) 7
  - c) Greater than 7
  - d) 0
- IV. Tartaric acid is found in
  - a) Vinegar
  - b) Nettle Sting
  - c) Tomato
  - d) Tamarind
- V. The ability of metals to be drawn into thin wires is known as
  - a) Ductility
  - b) Malleability
  - c) Sonorous
  - d) Conductivity
- VI. During the electrolytic refining of copper, cathode is made of
  - a) Impure copper
  - b) Pure copper
  - c) Zinc
  - d) Iron
- VII. What is full form of ATP?
  - a) Adenosine Tri-Phosphate
  - b) Amino Tri Phosphate
  - c) Adenosine Tetra-Phosphate
  - d) Amino Tetra Phosphate
- VIII. What happens when water is released from guard cells?
  - a) Guard cell get closed
  - b) Guard cell get open
  - c) Guard cell become green in colour
  - d) Dried up
- IX. Select the mode of excretion in plants.
  - a) Dead leaves
  - b) Transpiration
  - c) Cellular Vacuoles
  - d) All the above

- X. Which part of the brain can be divided into two hemispheres?
- a) Mid brain
  - b) Fore brain
  - c) Hind brain
  - d) Spinal cord
- XI. Which of the following is not an involuntary action?
- a) Vomitting
  - b) Salivation
  - c) Heart beat
  - d) Chewing
- XII. The disease caused due to sexual contact is
- a) AIDS
  - b) Cholera
  - c) Elephant's Foot
  - d) Tuberculosis
- XIII. The human which has XY chromosome is called
- a) Female
  - b) Hybrid
  - c) Male
  - d) None of the above
- XIV. Which of the following material cannot be used to make a lens?
- a) Water
  - b) Glass
  - c) Plastic
  - d) Clay
- XV. The mode of reproduction in Spirogyra is
- a) Budding
  - b) Fragmentation
  - c) Regeneration
  - d) Fission
- XVI. What will be the colour of sky when seen from moon?
- a) Blue
  - b) Green
  - c) Black
  - d) Yellow
- XVII. Which of the following metal is used in the making the filament of electric bulb ?
- a) Copper
  - b) Aluminium
  - c) Tungsten
  - d) lead
- XVIII. Choose the instrument used to protect electric circuits from short circuiting and over loading.
- a) Generator
  - b) Motor
  - c) Fuse
  - d) None of the above
- XIX. What is the molecular formula of ozone?
- a)  $O_2$
  - b)  $O_3$
  - c)  $O_5$
  - d)  $O_{11}$

- XX. Which of the following is not non-biodegradable?
- |                   |            |
|-------------------|------------|
| a) Vegetable Peel | b) Glass   |
| c) Plastic Bottle | d) Leather |

**Match Column A with Column B**

	Column A	Column B
XXI.	Ammeter	Concave Lens
XXII.	Unit of Resistance	$1/V + 1/U = 1/F$
XXIII.	Near Sightedness	Ethanol
XXIV.	Mirror Formula	Electric Current
XXV.	Drinking Alcohol	Ohm

(25×1=25)

**Two Marks Questions**

**[Attempt any 11]**

- Q.2 Compare functioning of Alveoli in the lungs and nephrons in the kidneys with respect to their function
- Q.3 Why should a Magnesium ribbon be rubbed before burning in the air?
- Q.4 Why should curd and other sour substances not to be kept in brass or copper vessels?
- Q.5 What is the role of acid on our stomach?
- Q.6 What are the two properties of carbon which lead to the huge number of carbon compounds we see around us?
- Q.7 How does our body respond when adrenaline is secreted in our blood?
- Q.8 How is the sex of child determined in human beings
- Q.9 Define Principal focus of a concave mirror
- Q.10 What is accommodation in human eye?
- Q.11 Give the characteristics of magnetic field lines
- Q.12 What is ozone? How does it affect an ecosystem?
- Q.13 Which two gases are released during electrolysis of water? Mention chemical Equation related to it
- Q.14 Why do stars twinkle?
- Q.15 What would be the consequence of deficiency of hemoglobin in our bodies?
- Q.16 A doctor has prescribed a corrective lens of power +1.5D. Find Focal Length of lens. Is prescribed lens diverging or converging.

### Three Marks Questions

[Attempt any 6]

Q.17 When an iron nail is dipped in Copper Sulphate solution, what will be the observation after some time? Explain with equation.

Q.18 What is homologous series? Explain with help of example

Q.19 Draw the structure of Neuron and explain its functions

Q.20 Write two differences between Real Image and Virtual Image.  
What will be the size of image formed by a convex lens when object lies at  $2F$

Q.21 What is Myopia? What are the reasons of it? How the defect can be corrected?

Q.22 Explain biological Magnification

Q.23 How does chemical coordination takes place in plants?

Q.24 The focal length of a Concave lens is 2m. Calculate the power of the lens.

Q.25 How would you distinguish experimentally between an alcohol and a carboxylic acid

### Five Marks Questions

Q.26

a) Differentiate between sexual reproduction and asexual reproduction (any 3)

b) Write 2 advantages of sexual reproduction over asexual reproduction

Or

a) Draw a labelled Diagram of the longitudinal section of a flower

b) What are the changes seen in girls in the time of puberty?

Q.27 Differentiate between metals and non-metals

Or

a) What are Amphoteric Oxides? Give 2 examples of amphoteric oxides.

b) Why do ionic compounds have high melting points?

Q.28 What is Ohm's Law? How will you verify Ohm's law in the laboratory?

Or

- a) An electric heater of resistance 8 Ohms draws 15 A from service mains for 2 hours. Calculate the rate at which heat is developed in the heater.
- b) Why is series arrangement not used in domestic circuits?