

BLUEPRINT OF SCIENCE WEEKLY TEST

CLASS VII

S.No.	Types of question	No. of questions	marks	total
1	Multiple choice questions	4	1	4
2	Correct the incorrect statements	4	1	4
3	Give one word	4	1	4
4	Value based	1	3	3
5	Very short	5	2	10
6	Short answer	5	3	15
7	Long answer	5	5	10
	Total			50

DELHI PUBLIC SCHOOL BAHADURGARH SAMPLE PAPER-1 G.SCIENCE (S.A)

Duration: 1½ hrs

MM: 90

Total Pages:

CLASS – VII

6

General Instructions:

i) All the questions are necessary to attempt.

ii) Draw diagrams wherever necessary. Draw diagrams with pencil only.

SECTION-A

CHOOSE THE CORRECT OPTION

(0.5 × 16 = 8)

1. Paddy grows best in

a) Clayey soil

b) Loam

b) Sandy soil

d) Sandy-Loam

2. Exchange of gases in plants takes place through the

a) Stomata

b) Roots

c) Buds

d) Entire leaf surface

3. Zygote is related to which method of reproduction ?

a) Budding

b) Sexual reproduction

c) Spore formation

d) Asexual reproduction

4. Which of the following are not associated with cyclones ?
- a) Strong winds
 - b) Heavy rains
 - c) Tidal waves
 - d) Volcanic eruptions
5. Band of which of these colours is not seen in spectrum ?
- a) Green
 - b) Yellow
 - c) Purple
 - d) Red
6. Which of these is absolutely necessary in an electric circuit ?
- a) Bulb
 - b) Switch
 - c) Voltmeter
 - d) Connecting wires
7. How much of the earth's surface is covered with water ?
- a) About two-thirds
 - b) About three-fourths
 - c) Exactly three-fourth
 - d) About one-fourth
8. The first link in all food chains are
- a) Herbivores
 - b) Carnivores
 - c) Green plants
 - d) None of these
9. Which of these is an irreversible physical change ?
- a) Rusting of iron
 - b) Freezing of water
 - c) Breaking of glass tumbler
 - d) A double decomposition reaction
10. Which of these has the smallest size of particles ?
- a) Sand
 - b) Silt
 - c) Clay
 - d) Gravel
11. Through which tubes does air enter the lungs from the windpipe ?
- a) Bronchi
 - b) Bronchioles
 - c) Alveoli
 - d) Trachea
12. Which of these develop into the seed ?
- a) Pollen grains
 - b) Ovary
 - c) Ovule
 - d) Pollen tube

13. Which of the following images can a convex lens NOT produce ?

- a) Real, Magnified
- b) Virtual, Magnified
- c) Erect, Virtual
- d) Erect, Diminished

14. Which of these appliances does not use an electromagnet ?

- a) Washing machine
- b) Refrigerator
- c) Room heater
- d) Electric bell

15. The water table goes down due to

- a) Increase in population
- b) Increase in agriculture
- c) Increase in industrialization
- d) All of these

16. The primary source of energy in nature is

- a) Oxygen
- b) Carbon dioxide
- c) Fuels
- d) Sun

2. ANSWER THE FOLLOWING QUESTION IN ONE WORD

(0.5×16=8)

- A. Name the process of depositing zinc on iron to prevent rusting.
- B. Which soil retains the maximum water?
- C. Name one product of fermentation.
- D. Name the cell formed as a result of fusion of male gamete and female gamete.
- E. Name a large scale air mass that rotates around a strong centre of low pressure.
- F. Which lens converges light when fall on it?
- G. Name the magnet in which the magnetic field is produced by an electric current.
- H. Name a process by which plants loss water from the pores in the leaves.
- I. The name given to the circulation of water in the environment.
- J. Name the another name of soil degradation.
- K. Name the process refers to the movement and filtering of fluids through porous material.

- L. Name the substance present in blood which transports oxygen.
- M. Name the type of reproduction that takes place in Spirogyra.
- N. Which mirror is converging mirror?
- O. In which type of change a new substance is formed?
- P. Name the process of growing new plants using artificial method.

3. STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE. CORRECT THE INCORRECT STATEMENTS BY SUBSTITUTING ONE WORD. (1×5=5)

- A. Rainwater collects in A-horizon.
- B. Carboxylic acid is produced during anaerobic respiration in muscle cells.
- C. Yeast reproduces by spore formation.
- D. A magnifying lens is a diverging lens.
- E. Cooling causes steam to change into water.

4. Identify the layer and label them in the diagram. (1×5=5)

- a) The layer which is rich in humus.
- b) The layer which is called the sub-soil.
- c) The layer that we call 'regolith'.
- d) The layer in which the bed rocks are present.
- e) The layer which is called the top-soil.

5. VALUE BASED QUESTION : (4 mark)

Supriya with her teacher and classmates went to visit Rajasthan. During their visit they saw some villagers carrying pictures on their head. Teacher told them that these people have to travel miles to fetch water daily due to scarcity of water in their region. All wondered that there are some regions where people do not get adequate water for their daily needs. Now they realized the importance of water. Everyone vowed that they won't waste water and make every possible effort to conserve it.

Q1 What could be the reason for scarcity of water ?

Q2 How can you contribute in conservation of water ?

Q3 What moral values you learnt ?

SECTION-B

Very short answer questions :

(2×11=22)

1. Differentiate between physical and chemical change with an example.
2. What is weathering ?
3. What are the main organs of the respiratory system ?
4. Name one reproductive and one vegetative part of the plant.
5. What are the hazards associated with a cyclone ?
6. Differentiate between real image and virtual image.
7. Draw the symbols used in circuit for – a lamp and a battery of four cells.
8. How clouds are formed ?
9. What is a food chain ? Give an example.
10. What is percolation rate of water in the soil ? How it is calculated mathematically ?
11. How does exchange of gases occur in the following : a) fish b) Cockroach

Short answer questions :

(3×6=18)

1. Discuss the methods by which rusting of iron can be prevented.
2. Name the different layers of the soil. What does each layer consist of ?
3. Differentiate between breathing and respiration.
4. What is pollination ? Explain its types.
5. a) What causes monsoon winds ?
b) What causes a tornado to be formed ?
6. What is an electromagnet ? Give two uses of electromagnets.

Long answer questions :

(5×4=20)

1. Explain the water cycle in detail with a neat diagram.
 2. What is a food web ? Draw a diagram to show a food web.
 3. What is a thunderstorm? What are the precautions that should be taken during a thunderstorm?
 4. What is vegetative propagation ? What are the artificial methods of vegetative propagation?
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DELHI PUBLIC SCHOOL BAHADURGARH
Sample paper
ANNUAL EXAM
G.SCIENCE(SET-1)

Duration:1½h

rs

CLASS – VII

5

MM: 90

Total Pages:

Date-

General Instructions:

i) All the questions are necessary to attempt.

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SECTION-A

1. MULTIPLE CHOICE QUESTIONS :

(0.5×16=8)

1. Paddy grows best in
 - a) Clayey soil
 - b) Loam
 - b) Sandy soil
 - d) Sandy-Loam
2. Exchange of gases in plants takes place through the
 - a) Stomata
 - b) Roots
 - c) Buds
 - d) Entire leaf surface
3. Zygote is related to which method of reproduction?

- a) Budding
 - b) Sexual reproduction
 - c) Spore formation
 - d) Asexual reproduction
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16. The primary source of energy in nature is

- a) Oxygen
- b) Carbon dioxide
- c) Fuels
- d) Sun

2. FILL IN THE BLANKS

(0.5×16=8)

- A. The process of depositing zinc on iron to prevent rusting is called _____.
- B. _____ soil retains the maximum water.
- C. _____ and carbon dioxide are the products of fermentation.
- D. The fusion product of male cell and egg cell is known as _____.
- E. The faster the air moves, the _____ is the pressure.
- F. A convex lens _____ a parallel beam of light incident on it.
- G. An _____ behaves like a magnet when an electric current passed through it.
- H. Process of loss of water from the pores in the leaves is called _____.
- I. The circulation of water in the environment is known as _____.
- J. If there are no plants, heavy rain will cause extensive soil _____.

- K. Seeping of water through the soil is known as _____.
- L. The substance present in blood which transports oxygen is _____.
- M. Spirogyra reproduces by _____.
- N. _____ mirror is the converging mirror.
- O. A ____ substance is formed during a chemical change.
- P. The process of growing new plants using artificial methods is called _____.

3. CORRECT THE INCORRECT STATEMENT (1×5=5)

- A. Rainwater collects in **A-horizon**.
- B. **Carboxylic acid** is produced during anaerobic respiration in muscle cells.
- C. Yeast reproduces by **spore formation**.
- D. A magnifying lens is a **diverging lens**.
- E. **Cooling** causes steam to change into water.

4. Draw a neat diagram showing composition of soil. (1×5=5)

5. VALUE BASED QUESTION : (1×4=4)

Supriya with her teacher and classmates went to visit Rajasthan. During their visit they saw some villagers carrying pots on their head. Teacher told them that these people have to travel miles to fetch water daily due to scarcity of water in their region. All wondered that there are some regions where people do not get adequate water for their daily needs. Now they realized the importance of water. Everyone vowed that they won't waste water and make every possible effort to conserve it.

Q1 What could be the reason for scarcity of water?

Q2 How can you contribute in conservation of water?

Q3 What moral values you learnt?

SECTION-B

Very short answer questions :

(2×11=22)

1. Differentiate between physical and chemical change with an example.
2. What is weathering ?
3. What are the main organs of the respiratory system ?
4. Name one reproductive and one vegetative part of the plant.
5. What are the hazards associated with a cyclone?
6. Differentiate between real image and virtual image.
7. Draw the symbols used in circuit for – a lamp and a battery of four cells.
8. How clouds are formed?
9. What is a food chain? Give an example.
10. What is percolation rate of water in the soil ? How it is calculated mathematically ?
11. How does exchange of gases occur in the following : a) fish b) Cockroach

Short answer questions :

(3×6=18)

1. Discuss the methods by which rusting of iron can be prevented.
2. Name the different layers of the soil. What does each layer consist of ?
3. Differentiate between breathing and respiration.
4. What is pollination ? Explain its types.
5. a) What causes monsoon winds?
b) What causes a tornado to be formed?
6. What is an electromagnet ? Give two uses of electromagnets.

Long answer questions :

(5×4=20)

1. Explain the water cycle in detail with a neat diagram.
2. What is a food web ? Draw a diagram to show a food web.
3. What is a thunderstorm? What are the precautions that should be taken during a thunderstorm?
4. What is vegetative propagation ? What are the artificial methods of vegetative propagation?

DELHI PUBLIC SCHOOL BAHADURGARH
Sample paper
ANNUAL EXAM
G.SCIENCE(SET-2)

Duration:3hrs
MM: 90
Total Pages:

CLASS – VII
5

Date

General Instructions:

- i) All the questions are necessary to attempt.***
ii) Draw diagrams wherever necessary. Draw diagrams with pencil only.

SECTION-A

1. MULTIPLE CHOICE QUESTIONS :

(0.5×16=8)

1. Water percolating into the soil collects over
 - a) A-horizon
 - b) B-horizon
 - b) C-horizon
 - d) None of these
2. The process of transpiration occurs through
 - a) Stomata
 - b) Roots
 - c) Buds
 - d) Entire leaf surface
3. Which of the following contains the egg cells in plants?
 - a) Anther
 - b) Stigma
 - c) Pollen grain
 - d) Ovule
4. Air exerts pressure in
 - a) All directions
 - b) Downward directions only
 - c) Upward directions only
 - d) Sideways only
5. Band of which of these colour is observed in spectrum?
 - a) White
 - b) Black

- c) Purple d) Red
6. Which of these is not a circuit element?
- a) Bulb b) Switch
c) Plastic bottle d) Connecting wires
7. How much of the earth's surface is not covered with water?
- a) About two-thirds b) About three-fourths
c) Exactly three-fourth d) About one-fourth
8. Producers are
- a) Herbivores b) Carnivores
c) Green plants d) None of these
9. No new substance is formed during a
- a) Physical change b) Chemical change
c) Both d) None of these
10. Which type of soil is best for growing cotton?
- a) Sandy b) Loamy
c) Clayey d) Sandy-loam
11. In insects, exchange of gases takes place through
- a) Spiracles b) Gills
c) Lungs d) Stomata
12. Which of these is the male reproductive part of the flower?
- a) Pollen grains b) Stamen
c) Pistil d) Ovule
13. A spherical mirror with its reflecting surface on the outside is a
- a) Plane mirror b) Concave mirror
c) Convex mirror d) None of these
14. A device that measures the current flowing in the circuit is known as a

- a) Ammeter
- b) Voltmeter
- c) Galvanometer
- d) All of these

15. Which of these methods does not result in conservation of water?

- a) Using drip irrigation
- b) Recycling of water
- c) Planting more trees
- d) Cutting vegetation so that less water is lost by transpiration

16. Which of the following does a forest prevent?

- a) Floods
- b) Soil erosion
- c) Water table from going down
- d) All of these

2. FILL IN THE BLANKS

(0.5×16=8)

A. Heat is absorbed in an _____ reaction.

B. _____ soil retains the minimum water.

C. Ethanol and _____ are the products of fermentation.

D. The process of growing new plants using artificial methods is called _____.

E. _____ are used in cranes for lifting heavy iron objects.

F. A concave lens _____ a parallel beam of light incident on it.

G. Ice, liquid and steam are the three _____ of water.

H. Cellular respiration is a type of _____ respiration.

I. _____ is a very successful method of conserving groundwater.

J. _____ are the organisms that help in maintain the nutrients in the soil.

K. Loss of uppermost layer of the soil is known as _____.

L. _____ are the tiny air sacs present at the end of bronchioles.

M. Mosses and ferns reproduce by _____ formation.

N. _____ mirror is the diverging mirror.

O. _____ new substance is formed during a physical change.

P. In Amoeba, exchange of gases occurs by diffusion through the _____.

3. CORRECT THE INCORRECT STATEMENT

(1×5=5)

- A. **Sandy** soil absorb more water.
- B. The exchange of gases takes place in the **bronchi**.
- C. Hydra reproduces by **spore formation**.
- D. **Concave** mirrors are used as rear view mirrors in vehicles.
- E. **Heating** causes steam to change into water.

4. Draw a neat diagram of a flower showing the following parts :

(1×5=5)

- a) petal b) sepal c) stigma d) style e) Ovary

5. VALUE BASED QUESTION :

(1×4=4)

After diwali festival meera collected used diyas and wax of burn candles. She melted the wax in a pan and poured into diyas. She put thread in the middle of diyas. When the wax cool down, it set into beautiful candle diyas. She showed them to her parent and friends proudly. Everybody appreciated her effort.

Q1 Which property of wax helped meera to make such candle diyas?

Q2 Name four reversible changes in your daily life.

Q3 What values you observed in meera?

SECTION-B

Very short answer questions :

(2×11=22)

1. Give two example of physical and chemical change.
2. What is soil profile?
3. Why does the breathing becomes faster while during exercise?
4. What are the advantages of vegetative propagation?
5. Describe the eye of a cyclone.
6. Write two uses of concave mirrors.
7. Draw the symbols used in circuit for – open switch and closed switch.

8. Differentiate between evaporation and condensation.
9. What are producers? Give an example of food chain.
10. What do you mean by water table?
11. Name two products that we get from forests.

Short answer questions :

(3×6=18)

1. What is loam? Why it is considered to be the best topsoil for growing plants?
2. Explain the following : a) cutting b) grafting c) layering
3. Differentiate between Aerobic and anaerobic respiration.
4. What is pollination? Explain its types.
5. Write the characteristics of images formed by the convex mirror.
6. What is an electric bell? On what principle it's working is based.

Long answer questions :

(5×4=20)

1. List five ways in which forests are useful to us.
 2. List five methods of conserving water.
 3. State the following :
 - a) Lateral inversion
 - b) Spectrum
 - c) Convergent rays
 - d) Divergent rays
 - e) Real image
 4. What precautions are needed in the cyclone-prone areas?
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