



# GURU HAR RAI ACADEMY

Overbridge Ramadevi Bypass Sanigawan Road

Affiliated To New Delhi ICSE / ISC

School Code UP 129

## HOLIDAY HOMEWORK CLASS:- VII

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### **SUBJECT: BIOLOGY**

- **Please solve the following worksheet in your fair notebook.**
- **Use only pencil for diagrams**
- **Refer your textbooks for solving the worksheet**

#### **1. Differentiate between the following( two points only)**

- Collenchyma and sclerenchyma
- Cuboidal and squamous epithelium
- Ligament and tendon
- Simple tissues and complex tissues
- Meristematic and permanent tissue

#### **2. Give one main function of each of the following**

- Epidermis
- Sclerenchyma
- Xylem vessels
- Adipose tissue
- Cardiac muscles
- RBCs

#### **3. Identify the tissue that forms following structures**

- Epidermis of leaf
- Vascular bundles
- Stores fat
- Bone
- Ligament
- Brain
- Heart

#### **4. Draw and label the following diagrams**

- Xylem and phloem tissues
- Neuron
- Classification of animal tissues
- Classification of plant tissues

## Worksheet 2

### **1. Define the following terms**

- a.** Rhizoids
- b.** Rhizome
- c.** Sori
- d.** Spores
- e.** Cones

### **2. Draw well labelled diagrams of the following**

- a.** Five kingdom classification given by R.H.Whittaker
- b.** Different shapes of bacteria
- c.** Structure of a bacterium
- d.** Binary fission in amoeba

## **ENGLISH LANGUAGE**

- *Do all the given exercises in your English Language notebook*

### **The Sentence**

**Rearrange the following groups of jumbled words so as to make Sentences:**

1. Garden rose is this a.
2. Love books story I reading.
3. Mother very well my cooks.
4. Rahul morning every for walk goes a.
5. Played evening last we a match hockey.
6. Essays is the of this better two the.
7. You like stories do?
8. Is doctor my a father.
9. You your have breakfast finished?
10. Is baby beautiful what a she!

### **Kinds of Sentences**

**Write the kind of sentences :**

1. How fat she looks!
2. Go and call your brother.
3. Stand up there.
4. I have finished the work.
5. Where are you going?
6. How are you?
7. What a pity?
8. We are sisters.
9. Please come with me.
10. May you get well!

### **Subject and Predicate**

**Pick out Subject and Predicate in the following sentences:**

1. The two babies were feeling scared.
2. In that jungle lived a lion.
3. The boy with short hair is my cousin.
4. Go to sleep.
5. Manish and Rani are good friends.
6. Thank you.
7. Most of my classmates stay in Noida.
8. My dream is to be a doctor.

9. I can speak French.
10. Shalini is unwell.
11. Stand in a queue.
12. Across the river is the small village.
13. Birds fly.
14. My favorite food is Chinese.
15. Payal was upset with her result.

### Nouns

#### **Pick out Nouns and state their kinds:**

1. The crew was fine one.
2. The Vikrant is a big ship.
3. The ink is in the inkpot.
4. He gave me a bunch of grapes.
5. Always speak the truth.
6. The jury was divided in their opinions.
7. She is wearing gold jewellery.
8. London is the capital of England.
9. My belief in her innocence is based on facts.
10. The soldiers were rewarded for their bravery.
11. Have you seen Rahul's stamp collection?
12. Akbar was wise King.
13. The cat drank all the milk.
14. I love my mother very much.
15. Mercy is a great quality.

#### **Fill in the blanks with Collective Noun :**

1. a \_\_\_\_\_ of sticks
2. a \_\_\_\_\_ of birds.
3. a \_\_\_\_\_ of chicken
4. a \_\_\_\_\_ of sailors
5. a \_\_\_\_\_ of events
6. a \_\_\_\_\_ of weeds
7. a \_\_\_\_\_ of beads
8. a \_\_\_\_\_ of trees
9. a \_\_\_\_\_ of arrows
10. a \_\_\_\_\_ of sand

### Adjectives

#### **Pick out Adjectives and state their kinds:**

1. The coffee is not good.
2. He likes this pen.
3. Neither boy has come.
4. He ate little bread.
5. Whose pen is this?

6. A little boy was playing with his friends.
7. The spider has eight legs.
8. It was a glorious victory.
9. He likes Chinese food.
10. I like your house.
11. The real owner of this bungalow is somebody else.
12. Which train is late?
13. His English is perfect.
14. I have enough food.
15. I have enough pencils.

**Fill in the blank with correct degree of the adjectives given in the brackets:**

1. Rohini is \_\_\_\_\_ than Rajesh. (rich)
2. He has a \_\_\_\_\_ mind. (sharp)
3. Ankur is the \_\_\_\_\_ boy in the class. (tall)
4. This was the \_\_\_\_\_ question in the book. (easy)
5. Manish is \_\_\_\_\_ than his brother.
6. The city of Kochi is \_\_\_\_\_ than that of Chennai. (small)
7. Of the two poles, this is the \_\_\_\_\_. (big)
8. No other gem is so \_\_\_\_\_ as diamonds. (costly)
9. The pen is \_\_\_\_\_ than the sword. (mighty)
10. Wheat is \_\_\_\_\_ than rice. (good)

**Choose one from the brackets and fill in the sentences:**

1. Devika's house is \_\_\_\_\_ to mine. (nearest/next)
2. How \_\_\_\_\_ books do you have? (many/much)
3. She is \_\_\_\_\_ than her brother. (older/eldest)
4. I have \_\_\_\_\_ money. (few/little)
5. How \_\_\_\_\_ did the rice cost to you? (many/much)
6. My \_\_\_\_\_ sister has won the prize. (older/elder)
7. We will be staying at London for only a \_\_\_\_\_ days. (little/few)
8. May I have \_\_\_\_\_ food, please? (any/some)
9. Bolt and Michael entered the finals; the \_\_\_\_\_ won the match. (later/latter)
10. He prefers to sit on the \_\_\_\_\_ bench. (latest/last)

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### ENGLISH LITERATURE

**Revise all the chapters.**

**Copy the question answers of *A Spark Neglected Burns the House* and read the chapter.**

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## CHEMISTRY

### **I-Fill in the blanks –**

1. A new substance is always formed in a \_\_\_\_\_ change.
2. Melting of ice is a \_\_\_\_\_ change.
3. Burning of a fuel is a \_\_\_\_\_ change.
4. When a candle burns, wax melts, melting of wax is a \_\_\_\_\_ change.
5. Revolution of the earth around the sun is a \_\_\_\_\_ change.
6. Growing of a seedling into a plant is \_\_\_\_\_ change.

### **II- State whether the following are physical or chemical changes.**

- |                                 |                             |
|---------------------------------|-----------------------------|
| 1. digestion of food            | 6. shaping a piece of glass |
| 2. photosynthesis               | 7. mixing oil with water    |
| 3. respiration in living beings | 8. boiling of an egg        |
| 4. heating of water             | 9. water cycle in nature    |
| 5. burning of wood              | 10. glowing of a bulb       |

### **III- Write true or false against the following statements.**

1. Earthquake is a desirable change.
2. Melting of ice is a physical change.
3. Rusting of an iron is a chemical change.
4. Burning of sugar is a temporary change.
5. Cutting of paper into pieces is a chemical change.

### **IV- Name a chemical change which takes place in presence of –**

- |         |          |                |
|---------|----------|----------------|
| 1. Heat | 2. Light | 3. Electricity |
|---------|----------|----------------|

### **V- What do you observe when –?**

1. Water is boiled
2. A piece of paper is burnt
3. A spoon of sugar is heated in a pan

## WORKSHEET- II

**I-Name the process by which the components of following can be separated.**

1. Iron and sulphur
2. Water and mustard oil
3. Sugar and water
4. Cream from milk
5. Chaff and grain
6. Common salt from sea water
7. Ammonium chloride and sand

**II- Give the examples for each of the following –**

1. Solid + Solid mixture
2. Solid + Liquid mixture
3. Liquid + Liquid mixture

**III- Name the main metal present in the following –**

1. Haemoglobin
2. Chalk
3. Chlorophyll
4. Chocolate Wrappers

**IV- Write the name of the following elements –**

1. Na
2. C
3. Kr
4. U
5. Ra
6. Fe
7. Co

**V- Give one word answer for the following –**

1. The solid particles which remain on the filter paper the filtration. \_\_\_\_\_
2. The liquid which evaporates and then condenses during the process of distillation. \_\_\_\_\_
3. The process of transferring the clean liquid after the solid settles at the bottom of the container. \_\_\_\_\_

## **HISTORY AND CIVICS**

### **Topic:**

- **Mugal Emperor (ruler)(1526-1707)**
  - **Babar**
  - **Humayun**
  - **Akbar**
  - **Jahangir**
  - **Shanjahan**
  - **Aurangzeb**
- Write about this**
- **Ruling period**
  - **Administration**
  - **Art and architecture( monument)**

### **Notes:**

**\*Paste their pictures**

**\*Use file sheet and file**

**\*Don't exceed more than 10 pages**



# MATHEMATICS

## WORKSHEET - I

### \*Choose correct option in questions 1 to 5( show solutions).

1. A plane is flying at the height of 5000 m above the sea level. At a particular point, it exactly above a submarine floating 1500 m below the sea level. What is the vertical distance between them?  
a. 6500 m      b. 3500 m      c. 3000 m      d. 6000 m
2.  $(-5) \times 6 =$  \_\_\_\_\_  
a. 30                      b. -30                      c. 11                      d. -11
3.  $(-6) \times (-4) \times (-2) =$  \_\_\_\_\_  
a. 48                      b. 12                      c. -48                      d. -12
4.  $10 \times [(6 + (-2))] =$  \_\_\_\_\_  
a. 80                      b. -40                      c. -80                      d. 40
5.  $21 \div (-3) =$  \_\_\_\_\_  
a. -7                      b. 7                      c. 18                      d. -18

### \*Fill in the blanks:

6. On a number line when we subtract a \_\_\_\_\_ integer, we move to the right.
7. The \_\_\_\_\_ of any integer  $(-a)$  is  $a$ .
8. For any integer  $a$ ,  $a + 0 = a =$  \_\_\_\_\_.
9. For any three integers  $a$ ,  $b$  and  $c$ ,  $(a \times b) \times c =$  \_\_\_\_\_.
10. Find:
  1.  $80 \div (-5)$
  2.  $64 \div (-16)$
11. A shopkeeper earns a profit of Re1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock. In a particular month she incurs a loss of Rs 5. In a month she earns neither profit nor loss. If she sold 70 pens, how many pencils did she sell?
12. Suppose we represent the distance above the ground by a positive integer below the ground by a negative integer .If an elevator descends at a rate of 5m/min and begin descend from 15m above the ground, what will be its position after 45 minutes?

**\*WORKSHEET : 2**

**Choose correct option in questions 1 to 5 ( show solutions).**

1.  $9/7 \times 6 = \text{-----}$   
a)  $54/7$     b)  $15/7$     c)  $51/7$     d)  $57/7$
2.  $1/2$  of  $10 = \text{-----}$   
a) 20    b) 5    c) 8    d) 12
3.  $1/2 \times 1/5 = \text{-----}$   
a)  $1/7$     b)  $5/2$     c)  $1/10$     d)  $2/5$
4.  $7 \div 2/5 = \text{-----}$   
a) 35    b)  $37/5$     c)  $2/35$     d)  $35/2$
5.  $0.01 \times 0.01 = \text{-----}$   
a) 0.0001    b) 0.001    c) 0.1    d) 1

**\*Fill in the blanks:**

6. A \_\_\_\_\_ is a fraction that represents a part of a whole.
7. Reciprocal of  $\frac{2}{5}$  is \_\_\_\_\_.
8. A fraction acts as an operator \_\_\_\_\_.
9. The product of two proper fractions is \_\_\_\_\_ each of the fractions that are multiplied.
10. In a class of 40 students  $\frac{1}{5}$  of the total number of students like to study English,  $\frac{2}{5}$  of the total number like to study mathematics and the remaining students like to study Science. How many students like to study English?
11. Sushant reads  $\frac{1}{3}$  part of a book in 1 hour. How much part of the book will he read in  $2\frac{1}{5}$  hours?
12. Find the average of 4.2, 3.8 and 7.6.

**NOTE :- DO BOTH THE WORKSHEETS IN LAST YEAR'S WEEKLY TEST NOTEBOOK.**

## **SUBJECT: PHYSICS**

***\*Do the given worksheets in file sheets with reference to your textbook.***

### **Worksheet-1**

#### **A. Fill in the blanks from the given box:-**

$g/cm^3$	rotatory	density	volume	beam balance
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1. \_\_\_\_\_ is used to measure the mass of an object accurately.
2. If we use the units of gram for mass and cubic centimetres for volume, then the units for density will be \_\_\_\_\_.
3. A graduated measuring cylinder is used to measure \_\_\_\_\_.
4. We want to know whether an object will float or sink in water, we need to know its \_\_\_\_\_.
5. The blades of a rotating windmill and a rotating ceiling fan are examples of \_\_\_\_\_ motion.

#### **B. State true or false. Correct the false statements:-**

1. The S.I. unit of area is hectare.
2. Mass is a measure of the gravitational pull acting on an object.
3. In both oscillatory and vibratory motion, the motion of the bodies are repetitive.
4. The motion of a drill exhibits rotatory and circulatory motion.
5. If a body covers equal distances in equal intervals of time then the motion is said to be uniform.

#### **C. Match the columns:-**

##### **Column A**

1. Speed of an object
2. An athlete running on a curved path
3. Area of a rectangle
4. Volume of a cuboid
5. Motion of a butterfly

##### **Column B**

- a.  $l \times b \times h$
- b. Random motion
- c. distance/time
- d.  $l \times b$
- e. Curvilinear motion

#### **D. Write a difference between the following:-**

1. Mass and weight
2. Area and volume
3. Periodic motion and non-periodic motion
4. Circular motion and rotatory motion

## Worksheet-2

### A.Solve the following numericals:-

1. A book of 100 m length,50 m breadth and 12 cm height has a mass of 20 g. Calculate its density.
2. The volume of water in a measuring cylinder is 50 mL. After dropping a pebble, the water level is raised to 60 mL. Find the volume of the pebble.
3. What is the average speed of a cheetah that sprints 100 m in 4 s? What if it sprints 50 m in 2 s?
4. A shark swims due East for a distance of 8.9 km, turns around and goes due West for 2.8 km, and finally turns around again and heads 5.7 km due East. What is the total distance travelled by the shark?
5. A bus travels at a rate of 25 km/h for 4 min, then at 50 km/h for 8 min,and finally at 20 km/h for 2 min. Find the total distance covered in km and the average speed for the complete trip in m/s.

### B.Answer the following in one word:-

1. The type of motion in which an object in translatory motion moves along a straight line-
2. A simple pendulum shows this type of motion-
3. The kind of motion a flying bird has-
4. The motion of plucked string of a guitar-
5. The kind of motion a falling leaf has-

### C.Define the following terms:-

1. Weight
2. Rolling motion
3. Uniform motion
4. Random motion
5. Non-periodic motion

**D.Using the Internet, find out the value of gravity of all the planets in the solar system. Using this information, calculate your weight on all these planets. Find out where your weight will be the maximum and where it will be the minimum.**

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## Worksheet-2

### **A. Fill in the blanks from the given box:-**

Microphone	700 MB	motherboard	storage	computer hardware
------------	--------	-------------	---------	-------------------

1. The \_\_\_\_\_ devices comprises of devices that temporarily store information for transferring them from one computer to another.
2. A \_\_\_\_\_ is also known as mic is an input device that is used to provide audio as input to the computer.
3. A \_\_\_\_\_ is the collection of physical components that constitute a computer system.
4. The storage capacity of a CD is approximately \_\_\_\_\_.
5. The \_\_\_\_\_ is often referred to as the mother of all components attached to it, which often includes peripherals, interface cards, sound card, video card and so on.

### **B. Write two differences between the following:-**

1. RAM and ROM
2. Internal hardware devices and external hardware devices
3. Sound card and video card
4. Serial port and parallel port

### **C. Application based questions:-**

1. Riddhi wants to know which part is used to control the transfer of data and instructions among other units of computer.
2. Rishabh has a pendrive with him and he connected to a port of the system cabinet. Which port has he used to insert the pendrive?

### **D. Create a collage on external hardware devices/ internal hardware devices. (Do this collage work on a chart paper).**

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## **SUBJECT:- GEOGRAPHY**

Q1- Fill in the blanks:-

- A) \_\_\_\_\_ refers to the amount of moisture present in the air.
- B) \_\_\_\_\_ is measured in grams per cubic metre of air.
- C) Frontal rain fall is common in the belt of the \_\_\_\_\_.
- D) The ice pellets that fall with rain are called \_\_\_\_\_.
- E) The land breeze is a \_\_\_\_\_ wind.

Q2- Name the followings:-

- A) Intense low pressure system \_\_\_\_\_.
- B) A very small drop of water \_\_\_\_\_.
- C) Light continues rain fall in which the rain drops are of very small size \_\_\_\_\_.
- D) A warm and dry wind which blows across the Alps in Europe \_\_\_\_\_.
- E) Air that moves horizontally \_\_\_\_\_.

Q3- Write true or false:-

- A) The dust particles in the air help in precipitation. {      }
- B) The torrid zone receives minimum insolation. {    }
- C) A cyclone is associated with low pressure at the centre.{ }
- D) Conventional rain fall occurs in the equatorial region. {   }
- E) The planetary winds blow in a particular direction throughout the year.{   }

Q4- Answer the followings:-

- A) What are local winds?
- B) What is weather?
- C) How do clouds form?
- D) What is atmospheric pressure?
- E) What are the causes for the variation in the atmospheric pressure?
- F) What is rain shadow area?
- G) What is nimbus?

## WORKSHEET- II

Q5- Explain orographic rain fall with a labeled diagram.

Q6- Answer the followings:-

- A) Explain the composition of the atmosphere.
- B) How can we reduce global warming?
- C) What are the importance of the atmosphere?
- D) Define green house effect and green house gases.
- E) What is ozone hole?

Q7- Fill in the blanks:-

- A) Layers of gases is called \_\_\_\_\_.
- B) The upper limit of mesosphere is called \_\_\_\_\_.
- C) The density of air \_\_\_\_\_ with increase in height.
- D) All weather phenomena occurs in the \_\_\_\_\_.
- E) A rise in the sea level due to global warming will caused flooding of \_\_\_\_\_ areas.

Q8- Write true or false:-

- A) Maximum ozone depletion occurs over the Antarctic region. {    }
- B) The air resting over the poles is dense and heavy. {    }
- C) Helium is found in the exosphere because it is a light gas. {    }
- D) Global warming is caused due to heat wave. {    }
- E) Troposphere has high night-shining clouds. {    }

Q9- Differentiate between the followings:-

- A) Troposphere & Stratosphere
- B) Thermosphere & Exosphere
- C) Oxygen & Carbon dioxide

## ART & CRAFT

**Drawing:** - Garden scene with flower and butterfly.

**Craft:** - Wall hanging.



PUNJABI HOLIDAY HOME-WORK

Class - VII

I) 'ਸ੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ' ਦੀ ਕੋਈ ਸਾਖੀ ਲਿਖੋ।

II) ਹੇਠਾਂ ਦਿੱਤੇ ਹਿੰਦੀ ਸ਼ਬਦਾਂ ਨੂੰ ਪੰਜਾਬੀ ਵਿਚ ਲਿਖੋ।

- |           |          |              |
|-----------|----------|--------------|
| 1) ਥਰਮੀਟਰ | 3) ਡੋਪਡੀ | 5) ਉੱਤਮ      |
| 2) ਸੁੱਖ   | 4) ਇਨਾਮ  | 6) ਟਿਮਟਿਮਾਣਾ |

III) 'ਮੇਰੀ ਮਾਂ' ਅਤੇ 'ਮੇਰਾ ਸਕੂਲ' ਉੱਤੇ ਦਸ ਲਾਈਨਾਂ ਦਾ ਲੇਖ ਲਿਖੋ।

Guru Har Rai Academy

Class 7<sup>th</sup>

Holiday Homework

1. नदियों के परोपकारी स्वभाव की विशेषताओं पर चार स्लोगन लिखे (A 4 Sheet में लिखे )
- 2 वृक्ष संरक्षण विषय पर समाज को जाग्रत करने के लिए एक आकर्षक पोस्टर बनाए (Chart Paper पर बनाए )
- 3 स्वतंत्रता सेनानियों की प्रसिद्ध उक्तियों को सचित्र लिखे (A 4 Sheet में लिखे )

From: Mrs. Sneh Nigam

**GURU HAR RAI ACADEMY**  
**Class VII Subject – Sanskrit**  
**Holiday Home Work 2020-21**

1. चार्ट पेपर पर कलात्मक ढंग से वसंत ऋतु का सचित्र वर्णन करे तथा अपनी कल्पना के आधार पर संस्कृत में उचित शीर्षक लिखें ।
2. उपयोगी शब्दावली से कोई भी दस उचित शब्द लेकर उनका सचित्र वर्णन चार्ट/फाइल पेपर पर करें ।
3. दिए गए पाठ्यक्रम को जुलाई में होने वाली मासिक परीक्षा के लिए कॉपी में पूर्ण करे एवं याद भी करें ।

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Sushma Awasthi  
Sanskrit