



GURU HAR RAI ACADEMY

Overbridge Ramadevi Bypass Sanigawan Road

Affiliated To New Delhi ICSE / ISC

School Code UP 129

HOLIDAY HOMEWORK

CLASS:- VIII

BIOLOGY

Instructions:

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

Worksheet 1

1. Differentiate between the following(two points only)

- a. diffusion and osmosis
- b. Diffusion and active transport
- c. Xylem and phloem
- d. Micronutrients and macronutrients

2. Define the following terms

- a. Ascent of SAP
- b. Active transport
- c. Transpiration
- d. Transpiration pull
- e. Semipermeable membrane

3. Find the reasons for the following

- a. Why do plants lose so much of water?
- b. When we keep cut flowers in water they remain fresh for few days otherwise they get dried up in few hours. why?
- c. Why do we feel cool on standing under a tree?
- d. Why do plants not grow well in a barren land?

4. Draw a well labelled diagram of root hair showing water absorption (fig.1.4)

Worksheet-2

1. Differentiate between the following(two points only)

- a. Cerebrum and cerebellum
- b. Grey matter and white matter
- c. Sensory and motor nerve
- d. Voluntary and reflex action

2. Define the following terms.

- a. Stimulus
- b. Receptor
- c. Neuron
- d. Synapse
- e. Myliensheath
- f. Reflex action
- g. Effector

3. Give reasons for the following

- a. Injury to medulla oblongata leads to immediate death why?
- b. The hand moves away when someone pinches. Why?
- c. We salivate on seeing tasty food.

4. Draw well labelled diagram of the following.

- a. A simple reflex arc
- b. Structure of a neuron

COMPUTER

Worksheet - I

Fill in the blanks:

1. _____ is the physical path through which the message travels from the sender to the receiver.
2. _____ is a communication technology that uses low power radio waves to connect electronic devices wirelessly.
3. A _____ is a computer network that covers a small area of about 10 meters.
4. A _____ is an image, audio, video, graphics or text that connects one web page to another web page.
5. An IP address is a _____ bit address containing a set of four numbers, which varies from 0. to 255.
6. The set of rules that determines how data should be transferred over networks, compressed, and presented on the screen is called _____.

State True or False:

1. A Crossover Ethernet cable has got both its ends identical to each other.
2. Infrared technology can connect only two devices at a time.
3. Wi-Fi stands for Wireless Filtering.
4. CAN covers an area smaller than MAN.
5. ISP provides Internet connection to the users free of cost.

Application Based Questions:

1. Riya wants to transfer pictures of her recent US trip from her mobile to her computer. Suggest a wireless, of transmission which she can use for the same.
2. Mr. Nanda is opening a new branch of his office in Noida. He wants to connect the computers o with the computers of his home branch at Panchkula. Which networking type best suits his requireme
- 3 .Which type of network will you recommend in a school for data and hardware sharing?

Answer the following:-

- 1.What is the role of transmission medium in computer network .
- 2.Write any two advantages of networking.
3. What is Coaxial cable.
- 4.What is the utility of domain name. Differentiate between bluetooth and infrared and wirelesstechnology.

Write short note on following:-

1. Wi-fi
- 2.Modem
3. CAN

Write two points of differeces for each of the following:-

1. Hub and Switch
- 2.Router and Repeater

Worksheet - II

Fill in the blanks:

1. Acloud is a combination of both Private and Public cloud.
2. Microsoft renamed Skydrive as.....on January 27, 2014.
3. OneDrive is available as a built-in app on
4. is already integrated in OneDrive and can be accessed directly from it.
5. is a free program from that is used to organize, edit, and share digital photographs online.

State True or False:

1. A private cloud is provisioned for open use by the general public.
2. In Cloud Computing, a consumer has to pay a fixed amount even if the cloud services are not being used.
3. Cloud Computing provides a reliable recovery mechanism to deal with failures.
4. By default, OneDrive displays the files and folders in the form of thumbnails.
5. OneDrive allows multiple people to work together on the same document at the same time.
6. Picasa is used to edit photos by making changes in their original copies.

Application Based Questions:

1. While conducting a lecture on the types of operating system, Mohit's instructor asked him to name an operating system that is used when the time span required to react to an input is rigid and time bound. Can you help Mohit in answering the question?
2. In a quiz competition, the quiz master asked one of the participants, Nyra, "In which user interface, the user mostly gets immediate visual feedback of the action he performs?" To this Nyra replied "CUI". Is she right? if not, what is the right answer?

Answer the following:

1. Define hardware and software.
2. What is a System software? Into how many categories can it be classified?
3. Explain why we need an Operating system.
4. Explain any two functions of operating system.
5. What are the advantages of GUI over CUI?

Write short note on the following:-

1. Multi user operating system.
2. Real time operating system
3. Distributed operating system.
4. Cloud computing
5. Private cloud

English Literature

WORKSHEET- 1

- A. Bishop is an ordained member of the Christian clergy who, in most churches holds a position of authority. Arrange the following in order of their authority:
- Cardinal
 - Chaplain
 - Arch Bishop
 - Parson
 - Pope
 - Prelate
- B. Fill in the blanks choosing from those given below:
Earnestly, Incredulously, convict benefactor, scoundrel
1. The Bishop _____ desired to help the poor.
 2. The Convict shook his head____ at the Bishop's kind behaviour.
 3. Persome considered the Convict a _____.
 4. The Bishop ultimately proved to be the convict's _____.
- C. Study the play to locate the antonyms of the given words:
Easy, human, open, reluctance, distress .

WORKSHEET-2

- A. Make sentences of the given words:
Estate, chatter,glare, track, convent
- B. Write the central idea of IntheBazaars of Hyderabad .
- C. Write the character sketch of the following:
1. Bishop
 2. Convict
- D. Write meaning of the following words:
Ye, wares, tunics, ivory, jade, azure,hulks , repent, vermin, bishop
- E. Do mind mapping of NormanMckinnel .

Note-Do the given homework in your English Literature notebook.

PHYSICS

*** Do these questions :-**

Ques 1. Define the term matter. What is it composed of ?

Ques 2. Explain the terms vaporization and boiling point.

Ques 3. A liquid can change into a vapour state

- a) at a fixed temperature, and
- b) at all temperatures.

Ques 4. State (a) the melting point of ice, and

(b) the boiling point of water

Ques 5. State three factors on which the rate of evaporation of liquid depends.

Ques 6. Wet clothes dry more quickly on a warm day than on a cold day. Explain.

Ques 7. Water in a dish evaporates faster than in a bottle. Give reason.

Ques 8. Volatile liquids such as alcohol and spirit are stored in the tightly closed bottles. Explain.

Ques 9. Why is cooling produced on evaporation of a liquid ?

Ques 10. Give one example which demonstrates that a liquid takes heat from its surroundings when it evaporates.

Ques 11. Give two applications of evaporation.

Ques 12. Define the term density of a substance.

Ques 13. Name the S.I. unit of density. How is it related to g/cm^3 .

Ques 14. The density of brass is 8.4 g/cm^3 . What do you mean by this statement ?

Ques 15. Arrange the following substances in order of their increased density :

Iron, Cork, Brass, Water, Mercury

Ques 16. How does the density of a liquid (or gas) vary with temperature ?

Ques 17. A given quantity of a liquid is heated. Which of the following quantity will vary and how ?

(a) mass, (b) volume and (c) density.

Ques 18. What is a density bottle ? How is it used to find the density of a liquid ?

Ques 19. Define the term relative density of a substance.

Ques 20. A cork piece floats on water surface while an iron nail sinks in it. Explain the reason.

Ques 21. What is the law of floating ?

Ques 22. Why does a piece of ice float on water ?

Ques 23. It is easier to swim in sea water than in river water. Explain the reason.

Ques 24. A block of glass is 30cm long, 25cm wide and has a thickness of 2cm. Find its density if its mass is 7.5kg.

Ques 25. A piece of iron volume 30cm^3 has a mass of 234g. Find the density of iron.

Ques 26. The mass of 10cm^3 of silver is 103g. Find : (a) the density of silver in kg/g^3 , (b) relative density of silver. Given : density of water = 1000 kg/m^3 .

Ques 27. A piece of iron when immersed in water taken in Eureka can displaces 25 ml of water. Its mass is 195g. Find the density of iron in kg/m^3 .

Ques 28. A block of silver displaces 200 ml of water in a measuring cylinder. If the density of silver is 10300 kg/m^3 , find the mass of block.

Ques 29. The mass of a copper piece is 44g. A measuring cylinder contains water to a level of 12ml. The water level rises to 17ml mark when the copper piece is dipped in the measuring cylinder. Find : (i) the volume of copper piece, and (ii) the density of copper.

Ques 30. The mass of density bottle is 51.50g when empty, 76.05g when full f water and 71.85g when full of an oil. Find : (a) capacity of density bottle, and

(b) density of oil.

MATHEMATICS

Solve these questions :-

1) Arrange the following rational numbers in descending order : $-10/11, -19/22, -23/33, -39/44$

2) Represent each of the following numbers on the number line separately :

(I) $2/7$ (ii) $14/3$ (iii) $-3/4$ (iv) $-17/6$

3) Verify the following :

(I) $(3/4 + -2/5) + -7/10 = 3/4 + (-2/5 + -7/10)$

(ii) $-1 + (-2/3 + -3/4) = (-1 + -2/3) + -3/4$

4) What number should be subtracted from $-2/3$ to get $-1/6$?

5) Find each of the following products :

(I) $5/-18 \times -9/20$ (ii) $-13/15 \times -25/26$

6) Fill in the blanks :

(I) Zero has _____ reciprocal.

(ii) The numbers _____ and _____ are their own reciprocals.

7) Divide the sum of $13/5$ and $-12/7$ by the product of $-31/7$ and $1/-2$.

8) Find 10 rational numbers between $-3/4$ and $5/6$.

9) Rita had Rs.300. She spent $1/3$ of her money on notebooks and $1/4$ of the remainder on stationery items. How much money is left with her?

10) If $2/3$ of a number exceeds its $2/7$ by 44, find the number.

11) Without actual calculations, find the following sums :

(I) $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 + 21$

(ii) $11 + 13 + 15 + 17 + 19 + 21 + 23 + 25 + 27 + 29$

12) Express the following square numbers as the sum of two consecutive natural numbers.

(I) 441 (ii) 2401

13) Find a Pythagorean triplet for which

(I) the smallest number is 10 (ii) one number is 15.

14) Find the square root of the following numbers by the prime factorisation method :

(I) 8281 (ii) 20736.

15) The perimeters of two squares are 40m and 96m respectively. Find the perimeter of another square equal in area to the sum of the first two squares.

16) Find the smallest square number which is exactly divisible by 8, 9 and 10.

17) Find the square root of the following numbers by long division method :

(I) 4064256 (ii) 193600 (iii) 26.2144 (iv) 412.4961

18) Find the greatest number of 6-digits which is a perfect square.

19) Evaluate : (i) $(21)^3$ (ii) $(3.5)^3$ (iii) $(0.05)^3$ (iv) $(13/10)^3$

20) Which of the following numbers are perfect cubes? In case of perfect cube, find the number whose cube is the given number?

(I) 256 (ii) 8000 (iii) 9261 (iv) 3375

21) Find the smallest number by which 2560 must be multiplied so that the product is a perfect cube.

22) Find the cube root of : (i) 4096 (ii) -512 (iii) 64×729 (iv) $729/1000$

Playing with numbers :-

23) The difference between a 2-digit number and the number obtained by interchanging its digits is 63. What is the difference between the digits of the number?

24) In a 2-digit number, the digit at the units place is double the digit in the tens place. The number exceeds the sum of its digits by 18. Find the number.

25) Find the value of **x** for which the number $471x8$ is divisible by 9. Also, find the number.

26) Replace **x** in the number $86x6194$ by a digit so that the number formed is divisible by 11.

27) Find the values of the letters **A**, **B** and **C** given in the sum.

$$AB \times \underline{B(B + 1)CB}$$

28) Replace the letters **A**, **B** and **C** by the numerals given in the sum.

$$6) 5AB (9C$$

$$\underline{-54}$$

$$3B$$

$$\underline{-36}$$

$$\underline{\times}$$

29) Find two numbers whose product is a 1-digit number and the sum is a 2-digit number.

30) Complete the magic square given below using number 0, 1, 2, 15 (only once), so that sum along each row, each column and diagonal is 30.

	14		0
8		6	11
4			7
	2	1	12

Do any one Project from given topics using waste materials :- (You can use internet)

1) Make a project on Types of Angles.

2) Make a project to find Area of a Circle by dividing it into equal sectors.

3) Use sticks (like burnt match sticks, ice cream sticks or a strip of card board) to show different Types of Quadrilaterals.

4) Make a Bar Graph to show top 5 countries having maximum **Corona Positive Cases** with the number of cases as on 31st May, 2020. Use a thick white sheet for base and different coloured papers to represent bars.

CHEMISTRY

A. Give one word for the following

1. The process by which molecules strike each other.
2. Temperature at which liquid changes into vapour.
3. A natural substance capable of existing in all the three states.
4. The solid obtained after solidification of vapours of sublimable compound.

B. What happen to water if-?

1. It is kept in a deep freezer?
2. It is heated?
3. Salt is mixed with it?
4. Oil is mixed with it?

C. Give two examples for each of the following.

1. 1 the substance which sublime.
2. The substances which do not change their state on heating.
3. The substances which can flow.
4. Gases which are used as a fuel.

D. Fill in the blanks.

1. The process of a liquid changing into a solid is called _____.
2. The reaction in which energy is evolved is called _____.
3. There is no change in the _____ of the substance during a physical change.
4. A change which alters the composition of a substance is known as a _____ change.

E. Learn Chapter 1 and 2 for unit test.

WORKSHEET-II

A. Fill in the blanks –

1. An example of a brittle metal is _____.
2. Name two soft metals _____, _____.
3. The most abundant element present in the earth's crust is _____.
4. Name the element which has the highest percentage in air _____.
5. Name a liquid metal and a liquid non-metal _____ and _____.
6. Name a non-metal which is lustrous and good conductor of electricity _____.

B. 1. Learn table 3.3 given on page no. 24

2. Learn table 3.6 given on page no. 28

C. Write chemical name of the following

1. Baking soda
2. Vinegar
3. Sand
4. Marble
5. Common salt

D. Name the following elements –

1. An inert gas.
2. The hardest naturally occurring substance.
3. A non-metal which is a good conductor of electricity.
4. A metal which is the poor conductor of electricity.
5. A liquid metal
6. A liquid non-metal

HISTORY CIVICS

Topic:

- UNO
- AIM
- Objective
- Organs
- Agencies
- Head quarter
- Establishment year
- Function
- Role of India
- Paste or draw pictures

Or

Mahatma Gandhi(1919-1947)

***Policies**

***Movement**

***Paste pictures**

Note:

Use file and file sheet

Not exceed more than 10 to 15 pages.

ENGLISH LANGUAGE

WORKSHEET -1

A. Fill in the blanks with the correct degree of adjectives given in the brackets:-

1. Raveen is _____ (tall) than her sister.
2. The Alps are the _____ (high) mountain ranges in Europe.
3. The test was very _____ (easy) .
4. The test was _____ (easy) than I thought.
5. She is _____ (old) than him.
6. Who is the _____ (tall) man in the world?
7. I can run _____ than you.(fast)
8. Who is the _____ runner in the class? (fast).
9. David's house is as _____ (big) as Peter's house.
10. She took the _____ (strong) ropes to tie the bags together.
11. This story is _____ (interesting) than that story.

B. Write the missing adjective degree:

POSITIVE	COMPARATIVE	SUPERLATIVE
1. Blue	_____	_____
2. Old	_____	_____
3. _____	sweeter	_____
4. _____	_____	happiest
5. _____	shinier	_____
6. Clean	_____	_____
7. _____	finer	_____
8. _____	_____	highest
9. _____	nastier	_____
10. Rich	_____	_____

WORKSHEET-2

A. Rewrite the sentences given below using different degrees of comparison.

1. Shakespeare is the most famous of all writers in English.
2. Iron is more useful than any other metal.
3. I earn as much money as Ram.
4. China is larger than India.
5. Greenland is the largest island in the world.
6. Air is lighter than water.
7. I am taller than my brother.
8. Shyam is the strongest boy in the class.

B. Use a or an where necessary.

1. _____ book
2. _____ egg
3. _____ European
4. _____ tea
5. _____ one- rupee note
6. _____ honorable person
7. _____ M.P.
8. _____ strength
9. _____ B. A.
10. _____ Ph. D.
11. _____ university
12. _____ M.A.
13. _____ milk

GEOGRAPHY

Q1- Fill in the blanks:-

- A) The rural people are mostly engaged in _____ activities.
- B) The children and _____ people are treated as dependents.
- C) The _____ population leaves in towns and cities.
- D) _____ climate favours human habitation.
- E) The world's density of population is about _____ persons per sq.km..

Q2- Tick the correct answer:-

- A) Which of the following is a densely populated region in the world?
1) Congo River Basin 2) Western Europe 3) Northern Asia 4) Northern Africa
- B) What is not included in calculating the natural growth of population?
1) Birth rate 2) Death rate 3) Density of population 4) Migration
- C) Which of the following is not the main activity in urban areas?
1) Mining 2) Trade 3) Industries 4) Transport
- D) Industrial pollution is an impact of
1) Negative population 2) Optimum population 3) Over population 4) Under population
- E) In which age group people are economically active?
1) 60-70 years 2) 15-59 years 3) 0-14 years 4) above 70 years

Q3- Answer the followings:-

- A) What is density of population?
- B) What is census?
- C) What is population pyramid?
- D) What is optimum population?
- E) What are the impacts of overpopulation?
- F) What are moderately populated areas? Why have people settled in such areas?
- G) Define under population.
- H) Define birth rate.
- I) Explain the positive impacts of under population.

WORKSHEET-II

Q1- Define the followings:-

A) Urbanisation B) Migration C) Brain Drain D) Megacity E) Satellite city Q2- Fill in the blanks:-

- A) The difference between the _____ rate and the _____ rate is called the natural growth of population.
- B) The high cost of living in urban areas is a _____ impact of urbanization.
- C) _____ is widely used in a smart city.
- D) Urbanisation generally leads to _____ economic growth.
- E) There is always an _____ expansion of towns and cities.

Q3- Write one word answers:-

- A) The largest city in the world.
- B) The money data migrant sends home.
- C) Navi Mumbai is a satellite city of this city.
- D) The program under taken by the government to redevelop urban areas.
- E) An overcrowded urban area in habited by poor people.

Q4- Answer the followings:-

- A) Explain three features of a smart city.
- B) Name two mega cities of the world.
- C) Explain positive impact of urbanisation.
- D) What are the main features of satellite cities?
- E) Mention three pull factors that caused brain drain.
- F) Explain two impacts of migration on social structure.
- G) Name the different types of internal migration.
- H) Differentiate between internal and external migration.
- I) Why do people migrate from rural to urban areas?

ART & CRAFT

Drawing: -Poster of all the heroes fighting against corona.

Craft: - Doormat from waste material.

PUNJABI

PUNJABI HOLIDAY HOME-WORK

Class - VIII

I) ਸ੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੀ ਕੋਈ ਸਾਖੀ ਲਿਖੋ।

II) ਹੇਠ ਲਿਖੇ ਵਾਰਾਂ ਨੂੰ ਸੁੱਧ ਕਰਕੇ ਲਿਖੋ।

- 1) ਬੱਚਾ ਧੂਰੀ ਗਾਤ ਕੋਈ ਕਰੀ।
- 2) ਗੀਟਾ ਗਿਟਾਰ ਬਜਾ ਰਿਹਾ ਹੈ।
- 3) ਅਮਰਨ ਕਵਿਤਾ ਲਿਖ ਰਿਹਾ ਹੈ।
- 4) ਮੈਂ ਪੜ੍ਹਾਈ ਕੀਆ।
- 5) ਇਹ ਦੁਨੀਆ ਵੀਚ ਸੁਖ ਤੇ ਦੁਖ ਹਨ।

III) 'ਮੇਰਾ ਏਸ਼ ਤਾਰਤ' ਅਤੇ 'ਮੇਰਾ ਅਧਿਆਪਕ' ਉੱਤੇ ਲੇਖ ਲਿਖੋ।

HOLIDAY HOMEWORK (2020-21)

Subject- Hindi

Class – 8th

1. वर्तमान युग में मोबाइल फोन जीवन की आवश्यकता बन गया है। इस विषय पर अपने विचार प्रकट कीजिए और बताइए कि मोबाइल फोन जीवन में सुविधा के साथ-साथ मुसीबत किस प्रकार बन जाता है।

(200 शब्दों में सचित्र वर्णन कीजिए)

2. कबीर दास जी के पांच दोहे लिखिए।
3. “हम पंछी उन्मुक्त गगन के” नामक कविता की 12 पंक्तियां चित्र सहित लिखिए।

Note- इन सभी कार्यों को फाइल पेपर में करें।

Syllabus for Hindi (1st Unit Test 2020-21)

Class- 8th

- **Hindi language:**

Lesson- 1,4,5(अनेक शब्दों के लिए एक शब्द 1-20) 9,27

- **Hindi literature:**

Lesson- 1, 2

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

1. एक चार्ट पेपर तैयार करें जिसमे संस्कृत के कवि तथा लेखकों के चित्र के साथ उनके ग्रंथों का सचित्र वर्णन किया गया हो तथा उनका संक्षिप्त जीवन परिचय भी दें।
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 करें एवं याद भी करें।

Sushma Awasthi
Sanskrit