English: **INSTRUCTIONS FOR COMPILATION OF HOLIDAY HOMEWORK :.**

1. Update your CW notebook. Complete all your pending Class Work / HW Q/A, Word Meanings, Notes etc
2. **Do all the following questions in English Home-Work Notebook only.**

   HW notebook is to be submitted for checking on the day the school reopens after vacation. A copy of this assignment page should be pasted in the Holiday Home-work notebook.

MOMENTS: **(Supplementary Reader)**

Do self study of Chapters marked.

Write down the Central theme, Message, Value points of each chapter and write the answers of the questions given below. Answer all the questions in about 40 to 50 words.

CH -2 The Adventures of Toto

1) How many pets did the author's grandfather have? Where were they kept?

2) How did Toto use his body parts to his advantage?

3) The brain part devoted to mischief was far more developed in Toto". Do you agree with this observation of the narrator? Support your answer with instances from the text.

4) Describe the situation in which grandfather found himself at the Saharanpur railway station.

5) What human values do you see in Grandmother after reading this story?

CH - 3 Iswaran the Storyteller

1) In what way is Iswaran an asset to Mahendra?

2) How does Iswaran describe the uprooted tree on the highway?

3). How does Iswaran narrate the story of the tusker? Does it appear to be plausible?

4) Why does the author say that Iswaran seemed to more than make up for the absence of a TV in Mahendra's living quarters?

5) Mahendra calls ghosts or spirits a figment of the imagination. What happens to him on a full moon night?

CH-4 In the Kingdom of Fools

1) Why did the disciple decide to stay in the Kingdom of Fools? Was this a good idea? What does it reveal about his character?

2) Name all the people who are tried in the King's court, and give reasons for each of their trials.

3) Who is the real culprit according to the King? Why does he escape punishment?

4) One should not be greedy. How did greed bring the disciple in trouble?

5) A disciple is blessed when he finds the ideal Guru. In the case of the disciple in the story 'In the Kingdom of Fools', despite having an ideal guru, the disciple had drifted away from him. What traits in his character made him behave in this manner?

CH- 5 The Happy Prince

1) When and how did the Happy Prince realize the true meaning of life? What did this realization prompt him to do?

2) Why is the frost called a 'dreadfully hard frost'?

3) What are the two most precious things that the Angels find in the city?

4) Why did the swallow delay his departure for the second time?

5) How do the councilors and Mayor react on seeing the broken statue?

CH - 7 The Last Leaf

1) How did Johnsy associate herself with the falling leaves?

2) How did Sue pour out her worries to Behrman? What was his reaction?

3) What quality of friendship do you find in Sue as a friend?

4) Why has the story been called 'The Last Leaf? Do you think it is appropriate? Give reasons for your answer?

5) How did Johnsy realize her mistake?

3. ASL Topics

Prepare any FIVE topic out of ten and write them in not more than 100-120 words for the ASL

1. India of your Dream
2. Books are our Best Friends
3. An Ideal Person in My Life
4. Online Games: Good or Bad
5. Importance of Media
6. A Memorable Day of my Life
7. We Are Happier Than our Forefathers
8. Five Virtues I Admire the Most
9. Importance of Discipline
10. Music Has the Power to Heal

Hindi:

साहित्य—

1—प्रेमचंद द्वारा लिखित दो बैलों की कथा का सचित्र नाट्य रूपान्तर कीजिए।

2—राहुल सांकृत्यायन द्वारा ल्हासा की ओर में तिब्बत के जन जीवन, वहाँ की भौगोलिक स्थिति तथा यात्रा का अनुभव का वर्णन किया है। उसी प्रकार किसी रोमांचित यात्रा का सचित्र वर्णन कीजिए।

3—कबीरदास का जीवन परिचय तथा उनकी साखियों का सचित्र अर्थ लिखिए।

4—व्याकरण पुस्तक से तत्सम् उपसर्ग, तद्भव (हिन्दी)के उपसर्ग, विदेशी उपसर्ग और अंग्रेजी के उपसर्ग के दस—दस उदाहरण लिखिए

5—दो बैलों की कथा और ल्हासा की ओर पाठ में आए किन्हीं दस—दस शब्दों से मूल शब्द और प्रत्यय अलग कीजिए।

6—समास विग्रहकरतेहुए समास का नाम लिखिए—1—महावीर 2—चौराहा 3—आमरण 4—यथाशक्ति 5—तुलसीकृत 6—देवदास 7—अन्याय 8—हवनसामग्री 9—सत्याग्रह 10—राजकुमार 11—स्वरचित 12—जीवनसाथी 13—घुड़सवार 14—आपबीती 15—धनहीन 16—रेखाकिंत, 17—मालगोदाम 18—लंबोदर 19—दुरात्मा 20—चक्रधर

7—राष्ट्रीय त्योहार और मेरी पहली यात्रा पर अनुच्छेद लिखिए।

<u>निर्देश—सम्पूर्ण कार्य आन्तरिक मूल्याकंन के अन्तर्गत जाँचा जायेगा।</u>

Mathematics

(A):- THE STUDENTS HAVE TO PREPARE A <u>PORTFOLIO/ PROJECT</u> , FOR THE INTERNAL ASSSESSMENTS IN MATHEMATICS, AS PER THE GUIDELINES ISSUED BY CBSE.

<u>GUIDELINES FOR THE PORTFOLIO/ PROJECT FOR MATHEMATICS</u>

<u>TOPIC FOR THE PORTFOLIO :</u>

"CIRCLES AND ITS PARTS FORM AN IMPORTANT PART OF MATHEMATICS".

<u>KEY-POINTS ABOUT THE TOPIC</u> . (USE IN POINT-B , UNDER THE HEADING INSTRUCTIONS) ***

➤ DEFINITION OF CIRCLES. (HISTORY)

➤ WHAT IS SPECIAL ABOUT CIRCLES.

➤ ORTHOGONAL CIRCLES.

➤ FIGURES INDICATING INTERSECTION OF CIRCLES IN VARIOUS WAYS.

➤ IMPORTANCE OF CIRCLE IN MATHEMATICS

➤ PERIMETER AND AREA OF CIRCLE.

➤ PARTS OF A CIRCLE, ALONG WITH THE DIAGRAMS

- ➢ DRAW FEW COLORFUL DESIGNS BASED ON ARCHITECTURE IN KARNATAKA USING CIRCLE .
- ➢ SOME INTERESTING PATTERNS USING CIRCLES.
  - *** (FOR STUDENTS HELP)

INSTRUCTIONS:
WHAT SHOULD BE INCLUDED IN THE PORTFOLIO .
(A). COVER PAGE IN THE FORMAT GIVEN BELOW.

WELCOME TO MY PORTFOLIO

NAME:..

CLASS AND SECTION...

NAME OF SCHOOL...

SCHOOL ADDRESS...

NAME OF SUBJECT TEACHER...

SESSION...

SUBJECT: MATHEMATICS

FINISH THE FOLLOWING SENTENCES:-

GOAL SHEET:

- MY STRENGTH IN MATH INCLUDE: _____
  _____

- MY WEAKNESSES IN MATH INCLUDE: _____
  _____

- THE AREAS IN WHICH I HAVE IMPROVED IN MATHS ARE :
  _____
  _____

PHOTO

(B). NOTE ON WHAT YOU HAVE LEARNT .
C). PORTFOLIO REFLECTION
1). DATE OF START...
2). DATE OF COMPLETION...
3). AREAS OF IMPROVEMENT IN PORTFOLIO.................................
(D). SELF ASESSMENT QUESTIONS IN THE PORTFOLIO RELEVANT TO THE TOPIC (MIN. 5 QUESTIONS)
(E). TEACHERS COMMENTS (TO BE DONE BY THE TEACHER).
....
....

NAME OF STUDENT......................   TEACHERS SIGNATURE..

* NOTE:
  - MAKE A CREATIVE PORTFOLIO.
  - USE PROJECT SHEETS. (MINIMUM 8 SHEETS)
  - USE GRAPH SHEETS IF REQUIRED
  - COLOR PEN AND PENCIL CAN BE USED
  - STICK FILE TO BE USED FOR THE PORTFOLIO
....

(B):- THE STUDENTS HAVE TO PREPARE MATHS ACTIVITY FILE FOR , FOR THE INTERNAL ASSSESSMENTS IN MATHEMATICS, AS PER THE GUIDELINES ISSUED BY CBSE.

GUIDELINES AND INSTRUCTIONS FOR PREPARING THE ACTIVITY FILE:
- ➢ The activities should be done in a loose ruled project sheets and fixed in a stick file.
- ➢ It should contain the following in the order

- INDEX
- ACKNOWLEDGEMENT
- The figures should be drawn with pencil.
- The headings should be written in black in and the content in blue ink.
- Use the graph sheets wherever required.
- Color pencil and pen can be used.
- Mention NAME OF THE SCHOOL, your NAME, CLASS AND SECTION, SUBJECT and SESSION in the activity file.
- Prepare a neat and clean creative activity file.

NOTE: THE PDF OF THE ACTIVITIES TO BE COMPLETED WIL BE SHARED IN THE CLASS WHATASPP GROUPS BY THE SUBJECT TEACHER.

THE HOLIDAY HOMEWORK HAS TO BE SUBMITTED AFTER THE SUMMER VACATIONS.

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(C):- SOLVE THE QUESTION PAPER OF THE UT-1 EXAMS IN THE MATHS HOMEWORK NOTEBOOKS.

SCIENCE :

Physics: Instructions :

   i) All the questions are to be done in Physics Homework Notebook.

   ii) Work should be neat and presentable.

Q1. Give an example of a body which may appear to be moving for one person and stationary for the other.

Q2. What is the difference between uniform velocity and non-uniform velocity?

Q3. What do you understand by instantaneous velocity?

Q4. A particle is moving in a circular path of radius r. What would be the displacement after half a circle?

Q5. Distinguish between speed and velocity.

Q6. How will you show that the slope of displacement- time graph give velocity of the body?

Q7. Deduce the following equation of motion by graphical method:

   a) $v = u + at$

   b) $s = ut + (1/2)at^2$

   c) $v^2 = u^2 + 2as$

Q8. Obtain a relation for the distance travelled by an object moving with a uniform acceleration in the interval between 4th and 5th seconds.

Q9. A farmer moves along the boundary of a square field of side 10 m in 40s. What will be the magnitude of displacement of the farmer at the end of 2 minutes and 20 seconds?

Q10. A body travels along a circular path of radius 70m. After travelling half a revolution in 20s, find the (i) average velocity (ii) average speed.

Q11. A cheetah is the fastest land animal and can achieve a peak velocity of 100 km/h up to distances less than 500 m. If a cheetah sports its prey at a distance of 100 m, what is the minimum time it will take to get its prey, if the average velocity attained by it is 90 km/h?

Q12. A driver of a car travelling at 52 kmh^{-1} applies the brakes and accelerates uniformly in the opposite direction. The car stops in 5s. Another driver going at 30 kmh^{-1} in another car applies his brakes slowly and stop in 10s. On the same graph paper, plot the speed versus time graphs for the two cars. Which of the two cars travelled farther after the brakes were applied?

Q13. The brakes applied to a car produce an acceleration of 6 ms^{-2} in the opposite direction to the motion. If the car takes 2s to stop after the application of brakes, calculate the distance it travels during this time.

Q14. An artificial satellite is moving in a circular orbit of radius 42250 km. Calculate its speed if it takes 24 hrs to revolve around the earth.

Q15. An object starting from rest travels 20m in first 2s and 160 m in next 4 s. What will be the velocity after 7s from the start?

Q16. Explain uniform circular motion with the help of examples.

Q17.A body is moving along a circular path of radius R. What will be distance travelled and displacement of the body when it completes half a revolution.

Q18. A scooter acquires a velocity of 36 km per hour in 10 seconds just after the start. Calculate the acceleration of the scooter.

Q19.A moving train is brought to rest within 20 seconds by applying brakes. Find the initial velocity, if the retardation due to break is 2ms^{-2}.
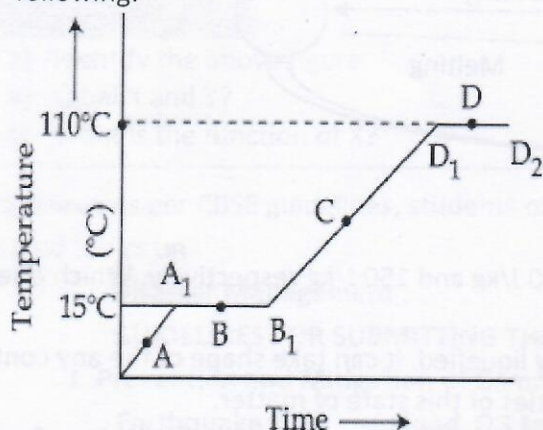
Q20. A racing car has a uniform acceleration of 4 m/s^2. What distance will it cover in 10 seconds after the start?

CHEMISTRY

Instructions:
   i. **All the questions are to be done in Chemistry Homework Notebook.**
   ii. **Work should be neat and presentable.**

1. CO_2 is a gas. Justify the given statement by two reasons.
2. The temperature graph given below shows the heating curve for pure wax. From the graph answer the following:
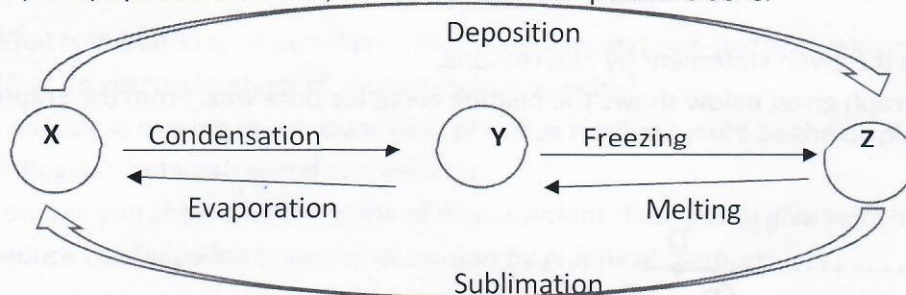

a) What is the physical state of substance at points A,B,C and D.
b) What is the melting point of the substance?
c) What is its boiling point?
d) Which portions of the graph indicates that change of state is taking place?
e) Name the terms used for heat absorbed during change of states involved in the above processes.
3. A rubber band can change its shape on stretching. Will you classify it as solid or not? Justify you answer.
4. State one similarity and two differences between boiling and evaporation.
5. List any two properties of liquids which are common to gases.
6. To which physical state of matter do the following statements apply?
   a) Incompressible , no fixed shape
   b) Incompressible , high melting point

c) Compressible , no definite volume

d) Incompressible , highly fluid

e) Particles just move around randomly because of very weak force of attraction

f) Layers of particle can slip and slide over one another easily.

7. Explain why do wet clothes dry faster when we spread them out.

8. List four factors which affect the rate of evaporation.

9. Write one similarity between three states of matter.

10. Tabulate the differences in the states of matter on basis of the following characteristics:

    a) Rigidity   b) Kinetic energy   c)Density

11. Give the temperature at which water exists in two different states.

12. A balloon when kept in sun, bursts after sometime. Why?

13. One kg cotton and one kg sand, which is more denser? Why?

14. How is the high compressibility property of gas useful to us?

15. Answer the following with respect to indicated properties:

    a) Water, salt, ice or wax – particle with highest force of attraction

    b) Water vapour , wax or ethyl alcohol – faster diffusion rate

16. You are given with following substances with their melting and boiling points.

Substance	Melting Point ($^{\circ}$C)	Boiling Point ($^{\circ}$C)
X	-219	-183
Y	119	445
Z	-15	78

Identify the physical states of X,Y and Z at room temperature 30°C.

17.

Identify X, Y and Z.

18. Latent heat of evaporation of two liquids A and B is100 J/kg and 150 J/kg respectively. Which one can produce more cooling effect and why?

19. Substance A has high compressibility and can be easily liquefied. It can take shape of the any container. Predict the nature of the substance Enlist four properties of this state of matter.

20. Why do doctor advise to put strips of wet cloth on the forehead of a person having high fever?
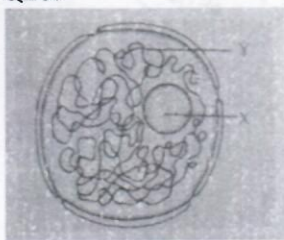

Biology:

Instructions :

i) All the questions are to be done in Biology Homework Notebook.

ii) Work should be neat and presentable.

Q1. Name the factor which decides the movement of water across the Plasma membrane.

Q2. Differentiate between Nucleus and Nucleoid.

Q3. What would happen if shelled raw egg and deshelled boiled egg are placed in water?

Q4. a) Name the smallest and the largest cell.

    b) Name the longest cell in human body.

Q5. Why is endocytosis found in animals only?

Q6. Why dry Apricots placed in salt solution do not swell while they do so when kept in water?

Q7. What would happen if Golgi Apparatus is removed from the cell?

Q8. Name a cell organelle which is non- membranous.

Q9. How are Chromatin, Chromatid and Chromosome related to each other?

Q10. Mitochondria and Chloroplasts are able to make their own protein. Give reason.

Q11. How are vacuoles useful in unicellular organisms like *Amoeba*?

Q12. Write one similarity and one difference between Mitochondria and Chloroplast.

Q13. Hypertonic Solution causes Plasmolysis where the protoplast shrinks and withdraws from the cell wall at most places. What is present between the shrunken protoplast and cell wall?

Q14. Name the organelles which show analogy written as under:

    i)   Transporting Channels of the cell

    ii)   Power house of the cell

    iii)   Packaging and dispatching unit of the cell

    iv)   Digestive bag of the cell

    v)   Storage sac of the cell

Q15. Why do plant cells possess large- sized vacuoles?

Q16. What is membrane biogenesis? How is Endoplasmic Reticulum important for membrane biogenesis?

Q17. What would happen if plasma membrane ruptures?

Q18. a) Name and draw a cell which does not have a well defined nuclear region? Label any four parts.

    b) Mention two ways by which a cell belonging to this group differs from a cell of your body.

Q19. Draw a neat diagram of Plant cell and label any three parts which differentiate it from Animal cell.

Q20.

    a) Identify the above figure.

    b) Label X and Y?

    c) What is the function of X?

Social Science : As per CBSE guidelines, students of Class IX have to submit a handwritten project on **any one** of the related topics on

        Disaster Management .

        GUIDELINES FOR SUBMITTING THE PROJECT

    1 **Prevention and Mitigation of Common Disasters in India.** Select any **one** for your project.

        Earthquake OR   Flood OR Landslide

    2. Based on your selection in **Point 1** above, enumerate the following in your project: -

        - Meaning

        - Causes

        - Do's and don'ts

        - Prevention and mitigation measures

        - Your emergency Kit

        - Latest means of forecasting Disasters

        - Prepare **a case study on any one of the Disasters** that you have chosen to research.

General Instructions:

    1. The project should be hand written.

    2. It should be well presented, researched, and pictorial.

3. Cover page, table of contents, acknowledgement, bibliography, headings and sub – headings are a must.
4. Each section should be done on **white/colored A4 size sheets**.
5. The project should be presented in a file or get your project spiral bound.
6. The project should **not exceed 15 pages**.
7. **Do not exceed 700 words.**

Computer:

Q1. Write the role of ICT in the following areas:

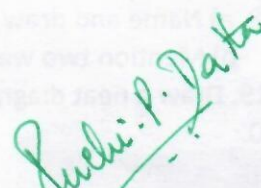(a) Education (b) Healthcare (c) Everyday Life (d) Science and Research (e) Entertainment

Q2. Prepare a presentation on "Virtual Reality "

Note :Atleast 10 slides , prepare hard copy of it .

Q3. Define BPO. What is the significance of it in Country's economic development

Q4. Solve UT1 question paper in HW notebook.

HEAD SENIOR SCHOOL

PRINCIPAL