



# BURARI PUBLIC SCHOOL

a venture with **UNIQUE**



**NAME:**.....

**CLASS:**.....

**ROLL NO.:**.....

# ***BURARI PUBLIC SCHOOL***

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## **SUMMER HOLIDAY HOMEWORK (2024-25)**

### **Class IX**

**Dear children,**

- **You matter us most and we All Miss You!**
- **Stay safe**
- **Be kind to your family.**
- **Get creative**

Summer vacations are at our doorsteps. Holidays are a well deserved opportunity to relax and rewind by indulging in activities that are pleasurable at the same educative. You are going to enjoy your holidays. It's a sincere request to all to complete holiday projects and home assignment on time. Engage yourself whole heartedly as you will learn a lot through it. Practice your hobbies or inculcate new hobbies. Do a lot of reading it can be newspapers, magazines, books or novels. Watch English news daily in order to equip yourself with the information and facts to be used as content in the writing skills.

Summer Holiday Homework is an initiative on our part, to inculcate innovativeness.

Creativity and interest in the tasks assigned to our students. It will not only enable them to recapitulate what was taught but will also help them to connect themselves to the various learning processes. Kindly ensure that your child complete the assignment neatly.

#### **General Instructions**

- All the work should be hand-written.
- Original drawings/illustrations and creative use of material will be appreciated.
- Present your work on A4 size sheet and put it in an attractive folder with your name and class clearly written at the top.

# English

- **ACTIVITY 1: Poetry on Canvas.**

How to do: Depict any one of the following poems from NCERT Book- Beehive in a creative manner as an artistic representation on A3 Canvas sheet. You can draw, paint, create collage, draw graphics or create a storyboard.

1. The Road Not Taken
2. Rain on the Roof

- **ACTIVITY 2: Design your own Newspaper on the theme Summer Olympics.**

How to do: The Newspaper should have 4 sections

1. All about Summer Olympics.
2. Entertainment Page, Education Page, Sports Page.

Where to do: A3 size sheets (5 pages)

- **ACTIVITY 3: Movie Review**

" Movies can be a powerful tool to educate and inspire children, helping them to develop empathy, creativity, and critical thinking skills".

What you have to do-

1. Choose one English Movie from the following:
  - Jungle Book
  - The Canterville Ghost
  - I am Kalam
2. After watching the movie, answer the following questions on an A4 Sheet
  - (a) Who is your favourite character? Why?
  - (b) If you could change the story what would you change and how?
  - (c) Mention the scene in the story you like the most and describe it.

- **ACTIVITY 4: Plan a visit to 'Waste to Wonder Park' in South Delhi. Make a Travelogue of the same in a scrap file. Paste pictures and give a detailed description of the park.**

[Location- photographic description- Key attractions- entry procedure- timings- some cultural background.

Untaught Topic: Read Literature Beehive chp-2 The Sound Of Music and Moments Chp-2 Adventures of Toto and write the meanings of difficult words in English Notebook.

**Taught Topic: Revise PT-1 Syllabus.**

### **WRITING:**

1. Write an Informal Letter to your friend, Rahul/ Roshini living in Dehradun narrating the details of your escapade to the Waste to Wonder Park, persuading him/her to come to Delhi and visit the same.
2. Write a diary entry of your visit to the Waste to Wonder Park describing your experience of the day.

## **WORKSHEET**

### **Q1. Solve the passage and answer the questions given below:**

Everyone has a favorite attraction at an amusement park, and I am no different. However, unlike most people who seem to prefer roller coasters, my favorite ride is a little more gentle. Every time I go to Coney Island, Navy Pier, or the Santa Monica Pier, I absolutely have to ride the Ferris wheel. The Ferris Wheel is simple and yet also quite complex. That is, riding it is easy, but how it works is complicated. A series of carts are attached to a wheel, which is attached to a rim. That rim rotates vertically around an axis, and gravity keeps the carts upright. As simple as the ride seems, only advanced engineers can make safe and fun Ferris Wheels.

While the Ferris Wheel is not as thrilling as a rollercoaster, it is still very exciting. The fact of being high in the air makes it so much more entertaining than a lot of rides. I mean, how often do you hang from that high up in daily life. Nevertheless, I have to admit, I don't seek Ferris Wheels out because of their excitement. Rather, I find them very relaxing. At the top of the Ferris Wheel, you get beautiful sights of the park. You also get a sense of calm that you don't get in the hustle and bustle of the park below. Additionally, Ferris Wheels are also gorgeous to look at when they are lit up at night. In fact, the original Ferris Wheel was designed as much to be seen as to be ridden.

The first Ferris Wheel was made by and named after George Washington Gale Ferris, Jr. He designed it for the Chicago World's Fair in 1893. It was the tallest attraction there, standing 264 feet high. However, visitors to the fair were impressed by the size of the ride as well as the mechanics of it. In 1893, anything that was not turned by hand was considered a sight to see.

And the wheel, which was a machine, was truly incredible to see.

Further, as one visitor put it, the wheel was amazing because it seemed to be missing support. That is, it did not look like it could stand on its own. And yet it did and even rotated!

Ferris Wheel technology has only improved since then. Most of today's Ferris Wheels are much larger than that first one. The largest in the world is the "Singapore Flyer," which stands slightly taller than twice what Ferris's did! Today, the Ferris Wheel is the most common amusement park ride. But that does not mean you should take them for granted. Instead, be thankful for Ferris' invention. The next time you're at an amusement park, don't just look up at the impressive wheel in the sky on your way to a newer attraction. Take it for a spin!

**1. As used in paragraph 1, the word attraction most nearly means:**

- i) Sense      ii) park      iii) ride      iv) vision

**2. It can be understood that Coney Island, Navy Pier, and the Santa Monica Pier are all examples of :**

- i) Amusement parks      ii) Ferris Wheels  
ii) Vacation spots      iv) boat dock

**3. As used in paragraph 2, which is the best antonym for complex?**

- i) Impressive      ii) beautiful      iii) exciting      iv) simple

**4. What does the author like best about Ferris Wheels?**

- i) The impressive engineering and beauty of them  
ii) The excitement and thrills they guarantee  
iii) The beautiful sights and relaxation they allow  
iv) The fact that most amusement parks have one

**5. According to the passage, the Ferris Wheel was originally designed for**

- i) Coney Island      ii) the world's fair  
ii) Disneyworld      iv) Singapore

**6. This passage was most likely written to:**

- i) Describe the author's favorite amusement park rides  
ii) Explain the original design of Ferris wheels and how they work today  
iii) Describe the history of Ferris wheels and why they are so popular  
iv) Explain the history of Ferris wheels and why the author likes them

**7. Using information in the passage, the reader can understand that the tallest Ferris wheel in the world is :**

- i) Under 250 feet tall  
ii) Between 250 and 500 feet tall  
iii) Between 500 and 750 feet tall  
iv) Over 750 feet tall

**8. In paragraph 2, the narrator says, "As simple as the ride seems, only advanced engineers can make safe and fun Ferris wheels." Can you think of any other machine that seem simple but actually is not?**

**9. In paragraph 3, the narrator says, "While the Ferris Wheel is not as thrilling as a rollercoaster, it is still very exciting." Can you think of any other machine that is not**

“thrilling” but still “exciting”?

**10. In the final section of the passage, we learn how Ferris Wheels “keep reaching higher and higher.” This seems to be a common trend among the developers of modern technology. What makes us want to continually strive to create something bigger and better?**

**11. Give a suitable title to the passage.**

**Q-2 Read the passage carefully and answer the questions that follow:**

Sex ratio in Ghaziabad improved in past decade, but has fallen after 2020 Ghaziabad : The sex ratio in Ghaziabad has improved from 870 to 915 in the past decade, but has gone down in the last one year. According to figures sourced from the health department, the number of women for every 1,000 men in the district was 961 in 2020, but has reduced to 915 this year. The district’s sex ratio was a cause for concern 10 years ago. In 2011, Ghaziabad’s sex ratio was 870, which was lower than the state’s figures of 912.

The next year, it reduced further to 818. However, the gap between the number of men and women gradually increased over the years. From 928 in 2018. It increased to 961 in 2020. However, it came down again to 915 this year.

Officials said some of the main reasons for the poor sex ratio cited in government reports were the preference for a son, female infanticide, and higher maternal mortality, among others. Continuous efforts, they said, were being made to improve the sex ratio and make people aware. However, despite a complete ban on pre-natal sex As many as 12 cases were lodged since January this year and the maximum number was reported from the Loni area. There are 324 registered ultrasound centres in Ghaziabad.

The additional chief medical officer, Dr Sunil Tyagi, the nodal officer for the Pre-Conception and Pre-Natal Diagnostic Techniques Act, 1994, said that raids were being conducted to find out if ultrasound centres were conducting sex determination tests. Apart from the raids, pregnant women and families are also being counselled by Asha workers. Several schemes promoting the birth of girls and government benefits are also being highlighted among the rural population, officials have said.

**1. What is the number of increase in sex ratio in Ghaziabad in the past decade?**

- i) 35                      ii) 36                      iii) 45                      iv) 46

**2. What was the sex ratio in the year 2020-21?**

- i) 915                      ii) 961                      iii) 818                      iv) 870

**3. Why have 30 FIRs been filed in the last three years?**

- i) Against maternal mortality                      ii) Against female oppression  
ii) Against domestic violence                      iv) Against pre-natal sex determination

**4. Which area has the most number of cases of violations of pre-natal sex determination tests?**

- i) Uttar Pradesh                      ii) Loni                      iii) Ghaziabad                      iv) India

**5. In 2012 the sex ratio in Ghaziabad further .**

- i) Declined                      ii) increased

- ii) Remained unchanged                      iv) not mentioned

**6. What are the reasons cited for the poor sex ratio?**

**7. Which of the following is not being done to erase the gap between males and females?**

- i) Counselling of pregnant women and families
- ii) Providing financial assistance to mother and girl child
- iii) Conducting raids on pre-natal Testing Centres
- iv) Introducing schemes promoting birth of girls

**8. What do you mean by sex ratio?**

- i) Ratio of males to females
- ii) Ratio of males per thousand females
- iii) Ratio of number of females per thousand males
- iv) Ratio of female population to total population

**9. The word in the passage which means “number of deaths over a period of time” is**

- i) Infanticide                      ii) Pre-natal      iii) Mortality      iv) Counselling

**10. Pick out synonym of ‘counselled’.**

- i) Directed                      ii) de-motivated                      iii) ensured                      iv) advised

**11. Give a suitable title to the passage.**

**Q3. Fill in the blanks with suitable determiners:**

- 1. Ramu is \_\_\_\_ honest man who runs \_\_\_\_ small shop around the corner. (a, a / an, a)
- 2. Have you seen \_\_\_\_ Taj Mahal? It is one of the seven wonders of the world. (the, a)
- 3. Are \_\_\_\_ your books? Can you share them with me? (these/this)
- 4. Do you have \_\_\_\_ buns left? I need to buy \_\_\_\_\_. (any/few, some/several)
- 5. \_\_\_\_ of the students got \_\_\_\_ chocolates from the teacher. (each, some / each, any)
- 6. Is \_\_\_\_ book Alisha’s? I found it lying on the floor. (this/that)
- 7. \_\_\_\_ of the boys decided to visit \_\_\_\_ Selfish Giant’s garden when he wasn’t around. (enough,a / some,the)
- 8. Do \_\_\_\_ of you like pizza? I thought of ordering \_\_\_\_\_. (any,some / some, one)
- 9. \_\_\_\_ of the boys were quarrelling over \_\_\_\_ toy. (both,the / each, the)
- 10. \_\_\_\_ car met with \_\_\_\_ accident nearby. (the,an / a,a)

**Q4. Read through the following sentences, locate the errors and correct them so as to have the verb agree with the subject.**

- 1. She get very nervous every time she see a needle.
- 2. Artie use a wheelchair to move from one place to another.
- 3. Neither you nor your brother are a singer.

4. There are a box of chocolates.
5. Sylvester and her sister is going to the same school.
6. Rahul, along with his friend Aakash, has signed up for the debate competition.
7. Quinn wear a coat along with all her dresses.
8. Teenagers uses social media applications on a regular basis.
9. My dad and my mom is teachers.
10. She work as a journalist at the Indian Express.

**Q5. Fill in the blanks:**

1. Mr Simon, the great painter and philanthropist, \_\_\_\_ arrived. (has/have)
2. Bread and butter \_\_\_\_ his daily food. (is/are)
3. Yusuf and Rahul \_\_\_\_ gone to the school fair. (have/has)
4. Slow and steady \_\_\_\_ the race. (win/wins)
5. The players \_\_\_\_ preparing for the big game tonight. (were/was)
6. The jury \_\_\_\_ unanimous in their decision. (was/were)
7. The little boy \_\_\_\_\_ mangoes. (like/likes)
8. The teachers \_\_\_\_\_ asked to attend a conference today. (were/was)
9. I \_\_\_\_\_ it is good for you. (thinks/think)
10. Neenu and Anu \_\_\_\_ twins. (are/is)
11. Rahul \_\_\_\_\_ English and Spanish. (speak/speaks)
12. Caro \_\_\_\_\_ in a bank. (works/work)
13. Mathan, Tovino and Boban \_\_\_\_ best friends. (are/is)
14. Every one of us \_\_\_\_ here. (is/are)
15. None of them \_\_\_\_\_ completed their assignments. (have/has)



# हिन्दी

**कार्यकलाप-1** किसी भी एक लेखक या लेखिका का जीवन परिचय पर परियोजना कार्य तैयार कीजिए तथा परियोजना कार्य करते समय लेखक/ या लेखिका का चित्र भी चिपकाए।

**कार्यकलाप -2** अलंकारों को परिभाषित करते हुए तथा अलंकारों का महत्व बताते हुए एक चार्ट पेपर तैयार करें।

**कार्यकलाप-3** हिंदी वर्णमाला का प्रयोग करते हुए शब्दकोश का निर्माण करें तथा शब्दकोश को बनाते समय लाल नीली पीली A4 साइज शीट का प्रयोग करें।

**कार्यकलाप -4** बचपन से दूर होते बच्चे पर एक प्रोजेक्ट तैयार कीजिए।

•समास व अलंकार की पुनरावृत्ति करें

पी-टी 1 हिंदी में पाठ्यक्रम की पुनरावृत्ति करें।

हिंदी व्याकरण

- किसी भी एक विषय पर अनुच्छेद लेखन लिखें।
- एक औपचारिक तथा एक अनौपचारिक पत्र लिखें।
- रोजाना एक पेज सुलेख लिखें तथा कठिन शब्दों का मौखिक/ लिखित रूप से अभ्यास करें।
- बढ़ती महंगाई में कीमतों के बारे में दो महिलाओं के बीच संवाद लिखिए।

## कार्यपत्रक

(खंड-क)

**प्रश्न 1. निम्नलिखित अपठित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए ?**

विश्व स्वास्थ्य संगठन के अध्ययनों और संयुक्त राष्ट्र की मानव-विकास रिपोर्टों ने भारत के बच्चों में कुपोषण की व्यापकता के साथ-साथ बाल मृत्यु दर और मातृ मृत्यु दर का ग्राफ़ काफ़ी ऊँचा रहने के तथ्य भी बार-बार जाहिर किए हैं। यूनिसेफ़ की रिपोर्ट बताती है कि लड़कियों की दशा और भी खराब है। पाकिस्तान और अफ़गानिस्तान के बाद, बालिग होने से पहले लड़कियों को ब्याह देने के मामले दक्षिण एशिया में सबसे ज़्यादा भारत में होते हैं। मातृ-मृत्यु दर और शिशु मृत्यु दर का एक प्रमुख कारण यह भी है। यह रिपोर्ट ऐसे समय जारी हुई है जब बच्चों के अधिकारों से संबंधित वैश्विक घोषणा-पत्र के पच्चीस साल पूरे हो रहे हैं। इस घोषणा-पत्र पर भारत और दक्षिण एशिया के अन्य देशों ने भी हस्ताक्षर किए थे। इसका यह असर ज़रूर हुआ कि बच्चों की सेहत, शिक्षा, सुरक्षा से संबंधित नए कानून बने, मंत्रालय या विभाग गठित हुए, संस्थाएँ और आयोग बने। घोषणा-पत्र से पहले की तुलना में कुछ सुधार भी दर्ज हुआ है। पर इसके बावजूद बहुत सारी बातें विचलित करने वाली हैं। मसलन, देश में हर साल लाखों बच्चे गुम हो

जाते हैं। लाखों बच्चे अब भी स्कूलों से बाहर हैं। श्रम-शोषण के लिए विवश बच्चों की तादाद इससे भी अधिक है वे स्कूल में पिटाई और घरेलू हिंसा के शिकार होते रहते हैं। परिवार के स्तर पर देखें तो संतान का मोह काफ़ी प्रबल दिखाई देगा, मगर दूसरी ओर बच्चों के प्रति सामाजिक संवेदनशीलता बहुत क्षीण है। कमज़ोर तबकों के बच्चों के प्रति तो बाकी समाज का रवैया अमूमन असहिष्णुता का ही रहता है। क्या ये स्वस्थ समाज के लक्षण हैं?

प्रश्न: 1.यूनिसेफ की रिपोर्ट में किस बात पर चिंता व्यक्त की गई है ?

प्रश्न: 2.घोषणा पत्र पर हस्ताक्षर करने का उद्देश्य क्या था?

प्रश्न: 3.भारत-पाकिस्तान किस समस्या से जूझ रहे हैं? इसका मुख्य कारण क्या है?

प्रश्न: 4.बच्चों के अधिकारों से संबंधित घोषणापत्र जारी होने के बाद क्या सुधार हुआ और ऐसी कौन-सी बातें हैं जो हमें दुखी करती हैं?

प्रश्न: 5.क्या ये स्वस्थ समाज के लक्षण हैं? ऐसा किस स्थिति को देखकर कहा गया है और क्यों?

( खंड-ख)

प्रश्न 2 दिए गए काव्य की सप्रसंग व्याख्या कीजिए ।

हस्ती चढ़िए जान कौ, सहज दुलीचा डारि। स्वान रूप संसार है, भूँकन दे झख मारि। 3।

प्रश्न-3 कबीर का जीवन परिचय लिखिए ।

प्रश्न 4 प्रत्ययों के प्रयोग

नीचे लिखे वाक्यों में रिक्त स्थानों में योग्य प्रत्यय (ने, को, से, के, में, पर, की, का) का प्रयोग करिए।

- 1 राम मोहन बातें कर रहा था
- 2 सोहन मोहन नहीं बुलाया था
- 3 उसके घर पौधे हैं। सामने बगीचे फूलों
- 4 बम्बई पूना दो सी किलोमीटर दूर है
- 5 मैं कापी दूसरी कलम से लिखता था।
- 6 लड़की सिर फूल लगे हुए थे।
- 7 लड़कों अपने पिता आज्ञा मानी
- 8 उन्होंने अपना उपदेश जनता सुनाया।
- 9 इस पास कहाँ इतना धन आया?
10. उस कमरे रोशनी नहीं है।
11. भारत मंदिरों नक्काशी देखने योग्य है।
- 12 हमने बनारस मिठाइयों स्वाद दिया।

प्रश्न 5 . नीचे दिए गए शब्दों के में प्रयुक्त प्रत्यय और मूल शब्द अलग-अलग करके उदाहरण के अनुसार लिखिए-

शब्द	प्रत्यय	मूल शब्द
1. नौकर		
2. नौकरानी		
3. आना		
4. सामाजिक		
5. भिखारी		
6. जहरीला		
7. बाजीगर		

प्रश्न 6 किसान जीवन वाले समाज में पशु और मनुष्य के आपसी संबंधों को कहानी में किस तरह व्यक्त किया गया है?

प्रश्न 7 उपसर्ग की परिभाषा बताइए तथा उपसर्ग कितने प्रकार के होते हैं यह भी बताइए।

प्रश्न 8 निम्नलिखित शब्दों में से उपसर्ग और मूल शब्द अलग-अलग कीजिए।

- (क) सपूत
- (ख) नाखुश
- (ग) पुरातन

प्रश्न 9 प्रत्यय की परिभाषा बताएं उदाहरण सहित ।

प्रश्न 10 निम्नलिखित शब्दों में से उपसर्ग मूल शब्द और प्रत्यय अलग-अलग कीजिए।

- क) असफलता
- ख) परिवर्तित
- ग) स्वतंत्रता

प्रश्न 11 किसी भी विषय पर एक औपचारिक तथा एक अनौपचारिक पत्र लिखिए ।

प्रश्न 12 किसी भी एक विषय पर संदेश लेखन लिखिए।

Note: हिन्दी कार्य पत्रक- कार्य फाइल के पेज में करें।

# MATHS

- **Complete Your Lab Manual.**
- **Make a Portfolio on the following Topics ( select any one )**
  1. Lines and Angles
  2. Circles
  3. Triangles
- **Do practice of NCERT Textbook Chapters ( PT - 1 Syllabus)**
- **Do the given Worksheet also.**

# Worksheet

1. If  $a = -2$ ,  $b = -1$ , then  $a^b - b^a$  is equal to [1]
  - a) -1
  - b) 0.5
  - c) -2
  - d) -1.5
2.  $8\sqrt{15} \div 2\sqrt{3}$  [1]
  - a) none of these
  - b)  $4\sqrt{5}$
  - c)  $2\sqrt{5}$
  - d)  $4\sqrt{15}$
3. Which one of the following statements is true? [1]
  - a) The sum of two irrational numbers may be a rational number or an irrational number
  - b) The sum of two irrational numbers is always an integer
  - c) The sum of two irrational numbers is always an irrational number
  - d) The sum of two irrational numbers is always a rational number
4. On simplification  $(3 + \sqrt{3})(3 - \sqrt{3})$  gives [1]
  - a) 0
  - b)  $-2\sqrt{3}$
  - c) 16
  - d) 6
5.  $(5 + \sqrt{8}) + (3 - \sqrt{2})(\sqrt{2} - 6)$  is [1]
  - a) positive and irrational
  - b) negative and irrational
  - c) positive and rational
  - d) negative and rational
6. Simplify:  $\frac{8^{1/2}}{8^{2/3}}$ . [1]
7. Without actual division, Find the rational number terminating decimal  $\frac{7}{24}$  [1]
8. Classify the number 0.3796 as rational or irrational. [1]
9. Find 6 rational numbers between  $\frac{6}{5}$  and  $\frac{7}{5}$  [1]
10. Write the rationalising factor of the denominator in  $\frac{1}{\sqrt{2} + \sqrt{3}}$ . [1]
11. State True or False: [1]
  - a) Every whole number is a natural number.
12. Given,  $\sqrt{2} = 1.414$  and  $\sqrt{6} = 2.449$ , find the value of  $\frac{1}{\sqrt{3} - \sqrt{2} - 1}$  to 3 places of decimal. [2]
13. Express the decimal  $0.\overline{53}$  in the form  $\frac{p}{q}$ , where p, q are integers and  $q \neq 0$ . [2]
14. Find the values of a and b  $\frac{7 + \sqrt{5}}{7 - \sqrt{5}} - \frac{7 - \sqrt{5}}{7 + \sqrt{5}} = a + \frac{7}{11}\sqrt{5}b$  [3]
15. Locate  $\sqrt{3}$  on the number line. [3]

# Science

## Physics

- **Activity**-Prepare a project file on **any one** of the three given topics
  - i) Archimedes' Principle
  - ii) Newton's Laws of Motion
  - iii) Gravitation
- Prepare 20 MCQs from the chapter **Work and Energy** (Write it on A4 size sheets).
- Read the chapter **Sound** and complete all the in-text questions in notebook.

## Chemistry

- **Activity**-Prepare a project file based on the chapter **Atoms and Molecules**.
- Prepare 20 MCQs from the chapter **Matter in our surrounding**. (Write it on A-4 size sheets).
- Compare in tabular form the **Properties of solids, liquids and gases** with respect to
  - i) Shape
  - ii) Volume
  - iii) Compressibility
  - iv) Diffusion
  - v) Fluidity or rigidity

(Do it on A-3 size sheet and paste related pictures).

## Biology

- **Activity1** - Write the contribution of the following scientist in the **study of cell** :
  - a. Robert Hooke
  - b. Purkinje
  - c. Leeuwenhoek
  - d. Robert Brown
  - e. Schleiden and Schwann.
- **Activity 2** - Write a note on **FUNDAMENTAL UNIT OF LIFE**. (Write it on A-4 size sheets).

- Prepare 20 MCQs from the unit **Organization in Living World**.(Write it on A-4 size sheets).
- Read the chapter **Tissues** and complete all the intext questions in notebook.

### **Project**

Follow the standards of CBSE while making your project work.

Your best activity out of the three will be considered as your project work.

(Your Project should contain a detailed information about the topic and related model/pictures should be there.)

## **WORKSHEET**

### **1. Tick (√) the correct option.**

1. The mass per unit volume of a substance is

- (a) Acceleration    (b) Density    (c) Velocity    (d) Weight

2. The melting point of ice is

- (a) 273.16 K    (b) 723.16 K    (c) 263.16 K    (d) 373 k

3. Which of the following state is responsible for the glow in the sun and stars?

- (a) Solid    (b) Liquid    (c) Plasma    (d) Gas

4. During summer water cap in an earth pot becomes cool because of the phenomena

- (a) Diffusion    (b) transpiration    (c) Osmosis    (d) Evaporation

5. Which of the following following phenomenon takes place when we add drop of dettol into the water?

- (a) Osmosis    (b) Diffusion    (c) Sublimation    (d) None of them

6. The cell of a plant cell is made up of

- (a) Glucose    (b) Fructose    (c) Protein    (d) Cellulose

7. Which of the following is known as the powerhouse of a cell?

- (a) Nucleus    (b) Golgi bodies    (c) Ribosome    (d) Mitochondria

8. Which is the longest cell of the human body?

- (a) Nerve cell    (b) Liver cell    (c) Kidney cell    (d) Cardiac cell

9. Digestive enzymes are found in

(a) Protoplasm (b) Cell wall (c) Lysosomes (d) Mitochondria

10. Who discovered the cell?

(a) Robert Hooke (b) Robert Brown (c) Leeuwenhoek (d) T. Schwann

11. Who gave the equations of motion for the first time?

(a) Bernhard Noble (b) Isaac Newton (c) CV Raman (d) Einstein

12. The displacement of the object in a unit time is called

(a) Speed (b) Velocity (c) Acceleration (d) Average speed

13. The rate of change of velocity per second is known as

(a) Acceleration (b) Speed (c) Average velocity (d) Linear motion

14. What is the unit of acceleration?

(a) m/s (b) m/s<sup>2</sup> (c) ms (d) m/s<sup>3</sup>

15. The slope of a velocity time graph gives

(a) The distance (b) The displacement (c) The acceleration (d) The speed

## 2. Write the answers of the following questions

1. Name one property, which is shown by Naphthalene and not by sodium chloride.

2. Which of the following diffuses faster? Water vapour, wax or ethyl alcohol.

3. Are the three states of matter inter-convertible? How can they be interconnected?

4. What happens when an inflated air balloon is pricked with a pin? Name the property of the gaseous state exhibited by this observation?

5. Which of the following are matter? chair, air, love, smell, hate, almonds, thought, cold, cold, drink, smell of perfume

6. Which organelle is associated with ribosome formation?

7. Define diffusion?

8. Why are lysosomes known as suicide bags?

9. What is a hypertonic solution?

10. What is a gene? What is its chemical composition and function?

11. Why are rest and motion called relative terms?

12. Give an example of non-uniform acceleration



13. What does the odometer of an automobile measures?
14. A farmer moves along the boundary of a square field of side 10 m in 40 seconds. What will be the magnitude of displacement of the farmer at the end of 2 minutes 20 seconds?
15. An athlete completes one round of the circular track of diameter 200 m in 40 seconds. What will be the distance covered and the displacement at the end of two minute 20 seconds?

## **SOCIAL STUDIES**

**Historical Instagram:** Imagine you are a historical figure or a key figure from a social science concept. Create an Instagram profile for yourself, complete with posts, stories, and highlights that reflect your life, achievements, and impact on society.

**Time Travel Journal :** Pretend you have traveled back in time to a significant event in history. Write a detailed journal entry describing your experiences, what you see, hear, and feel, and how this event has changed your perspective on history.

**Historical News Broadcast:** Record a video or audio news broadcast reporting on a historical event or social issue. Include interviews, reports from the scene, and analysis from experts.

**Timeline of Change :** Create a timeline that traces the evolution of a social issue or concept over time. Include key events, milestones, and changes in societal attitudes or policies.

### **1. Yojana Magazine:**

- **Article Review:** Select an article from Yojana that discusses social issues such as poverty, education, or health. summarize the article and analyze its implications on society. also suggest solutions based on your understanding.

- **Government Scheme Analysis:** Choose a government scheme or policy discussed in Yojana (e.g., Swachh Bharat Abhiyan, Beti Bachao Beti Padhao) and research and present its objectives, implementation strategies, and impact.

- **Case Study:** Pick a case study from Yojana that highlights a social issue (e.g., a successful community development project). analyze the case study, identify key factors contributing to its success, and discuss how similar initiatives can be implemented elsewhere.

## 2. Kurukshetra Magazine:

- **Theme Exploration:** Select an issue of Kurukshetra focusing on a specific theme (e.g., rural development, sustainable agriculture) and prepare a project highlighting the key points discussed, challenges faced, and innovative solutions proposed.

- **Interview Assignment:** Choose an interview from Kurukshetra featuring a prominent personality in the field of social development (e.g., an activist, researcher, or government official) prepare questions for a hypothetical interview with that person, focusing on their work and views on relevant issues.

Make a project file on " Democracy in India "

( Please purchase the May editions of Yojana and Kurukshetra magazines.)

# Computer

**Make a project File on the following topics:**

## 1. Basics of Information Technology

- Definition of the computer.
- Characteristics of the computer
- Limitations of the computers
- Different areas of application(where computers are used)
- Functional Components of a Computer System (Paste the pictures of 4 input, 4 output, 4 storage Devices and write about them).
- Central Processing Unit.
- Primary Memory & Secondary Memory
- Paste a picture of Types of Computer Memory.
- Difference between RAM and ROM

## 2. Cyber Safety

- Define Cyber safety
- Identity protection
- Confidentiality of information
- Protection from Malware, Virus and Spam(While using the internet)
- Cyber Crime in modern world
- Reporting Cyber- crimes

**Note: Make this project in a report file (Punched holes) and paste coloured pictures and use practical pages. Writing must be neat & clean.**