

## **CLASS IX JUNE WEEK 4 ASSIGNMENTS (2021-22)**

### **ENGLISH ASSIGNMENT 1**

#### **WRITING SKILLS**

#### **DESCRIPTIVE PARAGRAPH (PERSON, PLACE, EVENT)**

It means to describe any person, place or event factually. It must be descriptive and detailed and not include speculations.

#### **(A) Description of a person**

HINTS:

- Physical Appearance
- Habits
- Profession
- Good qualities
- Special traits
- Use of Active/ Passive Voice
- Give concrete examples and anecdotes

**Q.1. Write a factual description of the acclaimed Indian actors, Irrfan Khan / Rishi Kapoor who left for their heavenly abode recently.**

#### **(B) Description of a place**

HINTS:

- Mention the geographical location, dimensions, facilities available
- Mention the people, their dresses, food habits, social and cultural customs, occupations, weather etc.
- Usage of Simple Present and Passive Form

**Q.2. You are Gautam / Gita. Your school has built a well – planned auditorium to hold cultural and academic meets. Write a factual description of the auditorium.**

#### **(C) Description of an Event**

HINTS:

- Usage of Past Tense
- Usage of Passive Voice to describe technical, scientific or lab reports.

**Q.3 Cracks in the joint family system have worsened the condition of the old people. They are left to die. Recently an old woman was left in a garbage dump and she passed away after two days. Describe the incident in about 100-150 words.**

### **ASSIGNMENT 2 POEM – RAIN ON THE ROOF**

#### **A. Extract based questions:**

**Read the extracts and answer the following questions:**

1. "When the humid shadows hover  
Over the starry spheres  
And the melancholy darkness  
Gently weeps in rainy tears."
  - a. What does the poet mean by "Humid shadows"?
  - b. What does the phrase "Starry Spheres" refer to?
  - c. What does the poet consider to be bliss in the rainy season?

- d. Which poetic device has been used in "Starry Spheres"?
2. "Every tinkle on the shingles  
Has an echo in the heart  
And a thousand dreamy fancies  
Into a busy being start  
And a thousand recollections  
Weave their air threads into woof."

  - a. What finds an echo in the heart of the poet?
  - b. How does this sound of the rain affect the heart of the poet?
  - c. Explain the metaphor used in "And a thousand recollections; Weave their air threads into woof."

- d. Give the rhyme scheme of the stanza.
3. "Now in memory comes my mother  
As she used in years ago  
To regard the darling dreamers  
Ere she left them till the dawn."

  - a. What comes in the memory of the poet and when?
  - b. What does the poet remember about his mother?
  - c. What refrain is the poet talking about?

**B. Answer the following questions in 30-40 words:**

1. How is the poet's mood contrasted to the mood of darkness?
2. What is the impact of the raindrops on the poet's heart?
3. Which distinctive memory is revived in the poet's heart?
4. Why does the poet call the sound of the rain as refrain?
5. Write the central theme of the poem.

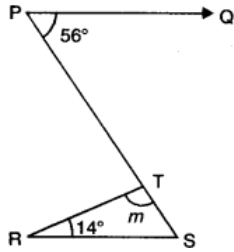
**MATHEMATICS**  
**WORKSHEET 1**  
**POLYNOMIALS**

1. Factorise :  $125x^3 - 64y^3$
2. Find the value of  $(x + y)^2 + (x - y)^2$
3. If  $p(x) = x^2 - 2\sqrt{2}x + 1$ , then find the value of  $p(2\sqrt{2})$
4. Find the value of  $m$ , if  $x + 4$  is a factor of the polynomial  $x^2 + 3x + m$ .
5. Expand :
  - (i)  $(y - \sqrt{3})^2$
  - (ii)  $(x - 2y - 3z)^2$
6. Show that  $p - 1$  is a factor of  $p^{10} + p^8 + p^6 - p^4 - p^2 - 1$ .
7. Factorise :  $1 - 2ab - (a^2 + b^2)$ .
8. Factorise  $64a^3 - 27b^3 - 144a^2b + 108ab^2$ .
9. If  $p(x) = x^3 + 3x^2 - 2x + 4$ , then find the value of  $p(2) + p(-2) - P(0)$ .
10. Factorise :  $x^3 - 6x^2 + 11x - 6$ .
11. Factorise :  $6x^3 - 5x^2 - 13x + 12$

**WORKSHEET 2**  
**LINES AND ANGLES**

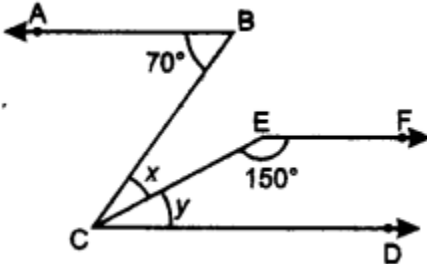
1. If an angle is half of its complementary angle, then find its degree measure.
2. The two complementary angles are in the ratio 1 : 5. Find the measures of the angles.

3. In the given figure, if  $PQ \parallel RS$ , then find the measure of angle  $m$ .

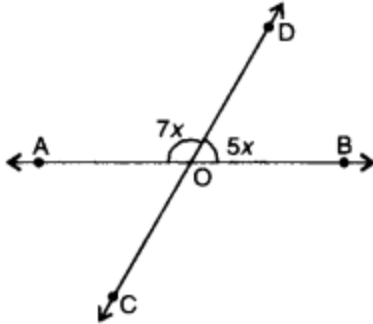


4. If an angle is  $14^\circ$  more than its complement, then find its measure.

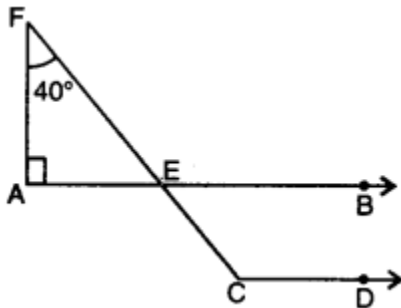
5. If  $AB \parallel EF$  and  $EF \parallel CD$ , then find the value of  $x$ .



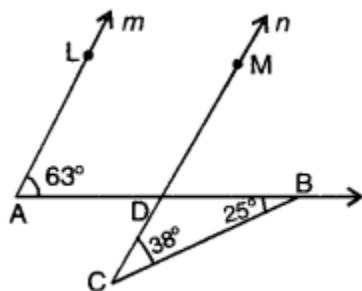
6. In the given figure, lines  $AB$  and  $CD$  intersect at  $O$ . Find the value of  $x$ .



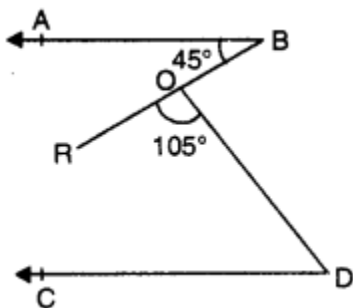
7. In the given figure,  $AB \parallel CD$ ,  $\angle FAE = 90^\circ$ ,  $\angle AFE = 40^\circ$ , find  $\angle ECD$ .



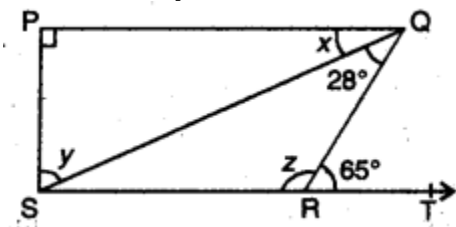
8. In the given figure, prove that  $m \parallel n$ .



9. In figure, if  $AB \parallel CD$ . If  $\angle ABR = 45^\circ$  and  $\angle ROD = 105^\circ$ , then find  $\angle ODC$ .



10. In the given figure, if  $PQ \perp PS$ ,  $PQ \parallel SR$ ,  $\angle SQR = 28^\circ$  and  $\angle QRT = 65^\circ$ . Find the values of  $x$ ,  $y$  and  $z$ .



## PHYSICS

### Topic : Motion

- Q.1** Derive the formula:  $v = u + at$  where the symbols have usual meaning
- Q.2** Write the three equations of uniformly accelerated motion. Give the meaning of each symbol which occurs in them.
- Q.3** Find the initial velocity of a car which is stopped in 10 seconds by applying brakes. The retardation due to brakes is  $2.5 \text{ m/s}^2$ .
- Q.4** Describe the motion of a body which is accelerating at a constant rate of  $a$ . If the body starts from rest, how much distance will it cover in 2 s?
- Q.5** A train stationary position and moving with uniform acceleration attains a speed of 36 km per hour in 10 minutes. Find its acceleration.
- Q.6** A bus was moving with a speed of 54 km/h. On applying brakes it stopped in 8 seconds. Calculate the acceleration.
- Q.7** A body starting from rest travels with uniform acceleration. If it travels 100 m in 5 s, what is the value of acceleration?
- Q.8** A bus increases its speed from 36 km/h to 72 km/h in 10 seconds. Its acceleration is \_\_\_\_\_.
- Q.9** A car acquires a velocity of 72 km per hours in 10 seconds starting from rest. Find (a) the acceleration, (b) the average velocity, and (c) the distance travelled in this time.
- Q.10** A motor cycle moving with a speed of 5 m/s is subjected to an acceleration of  $0.2 \text{ m/s}^2$ . Calculate the speed of the motor cycle after 10 seconds, and the distance travelled in this time.
- Q.11** A bus running at a speed of 18 km/h is stopped in 2.5 seconds by applying brakes. Calculate the retardation produced.
- Q.12** A train starting from rest moves with a uniform acceleration of  $0.2 \text{ m/s}^2$  for 5 minutes. Calculate the speed acquired and distance travelled in time

## CHEMISTRY

### Chapter - 1 (assignment – 1)

- Question (1):- suggest a method to liquefy atmospheric gases.
- Question (2):- If the humidity in the air increase then the rate of evaporation decrease or not if yes , why?
- Question (3):- Give two reasons to justify;
- (a) Water at a room temperature is a liquid.

(b) an iron almirah is a solid at room temperature.

Question (4):- Why is it that on increasing the wind speed the rate of evaporation increases?

Question (5):-What happens when the temperature of solids increase?

Chapter - 1 (assignment – 2)

Question (1):- If you decrease the surface area and increase the temperature , what happen with evaporation?

Question (2):- What happen when we apply pressure to the particles of matter?

Question (3):- Define latent heat of vapourisation and latent heat of fusion.

Question (4):- Why is it that a wooden chair should be called a solid and not a liquid?

Question (5):- What is distillation and fractional distillation?

## **BIOLOGY**

### **[CELL THE FUNDAMNETAL UNIT OF LIFE]**

1. Do you agree that “a cell is a building unit of an organism”. If yes, explain why?
2. Why does the skin of your finger shrink when you wash clothes for a long time?. Why is endocytosis found in animals only?
3. A person takes concentrated solution of salt, after some time, he starts vomiting. What is the phenomenon responsible for such situation? Explain.
4. Name any cell organelle which is non membranous.
5. We eat food composed of all the nutrients like carbohydrates, proteins, fats, vitamins, minerals and water. After digestion, these are absorbed in the form of glucose, amino acids, fatty acids, glycerol etc. What mechanisms are involved in absorption of digested food and water?.
6. If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?
7. If cells of onion peel and RBC are separately kept in hypotonic solution, what among the following will take place? Explain the reason for your answer.
  - (a) Both the cells will swell.
  - (b) RBC will burst easily while cells of onion peel will resist the bursting to some extent.
  - (c) a and b both are correct.
  - (d) RBC and onion peel cells will behave similarly..

8. Bacteria do not have chloroplast but some bacteria are photoautotrophic in nature and perform photosynthesis. Which part of bacterial cell performs this?

Solution:

In most photosynthetic bacteria, pigments and enzymes involved in photosynthesis are found in infoldings of plasma membrane that extend into the cytoplasm.

9. Match the following A and B.

	A		B
(a)	Smooth endoplasmic reticulum	(i)	Amoeba
(b)	Lysosome	(ii)	Nucleus
(c)	Nucleoid	(iii)	Bacteria
(d)	Food vacuoles	(iv)	Detoxification
(e)	Chromatin material and nucleolus	(v)	Suicidal bag

10. Write the name of different plant parts in which chromoplast, chloroplast and leucoplast are present.

11. Name the organelles which show the analogy written as under

(a) Transporting channels of the cell \_\_\_\_\_

- (b) Power house of the cell \_\_\_\_\_
- (c) Packaging and dispatching unit of the cell \_\_\_\_\_
- (d) Digestive bag of the cell \_\_\_\_\_
- (e) Storage sacs of the cell \_\_\_\_\_
- (f) Kitchen of the cell \_\_\_\_\_
- (g) Control room of the cell \_\_\_\_\_

### **SOCIAL SCIENCE**

#### Socialism in Europe and the Russian Revolution

Choose the correct option:

Question 1.

The leader of the Bolshevik party was

- (a) Stalin
- (b) Lenin
- (c) Karl Marx
- (d) Louis Blanc

Question 2.

Tsarist power in Russia collapsed in the year

- (a) 1905
- (b) 1916
- (c) 1917
- (d) 1920

Question 3.

Tsarina Alexandra was of the

- (a) German origin
- (b) French origin
- (c) Russian origin
- (d) Dutch origin

Question 4.

Jadidists were ..... within the Russian empire.

- (a) Muslim reformers
- (b) Muslim educationists
- (c) Parsi reformers
- (d) German refugees

Question 5.

The main occupation of the people of Russia in the beginning of the twentieth century was

- (a) manufacturing
- (b) poultry farming
- (c) fishing
- (d) agriculture

Question 6.

A Labour Party in Britain was formed by socialist and

- (a) trade unionists
- (b) peasants
- (c) industrialists
- (d) young students

Question 7.

The Central powers during the First World War included countries like Germany, Turkey and

- (a) France

- (b) Austria
- (c) Britain
- (d) Russia

Answer

Question 8.

The name associated with April Theses is

- (a) Karl Marx
- (b) Robert Owen
- (c) Lenin
- (d) Stalin

Question 9.

The successor of Lenin was

- (a) Stalin
- (b) Kerenskii
- (c) Trotskii
- (d) Louis Blance

Question 10.

Budeonovka was the name given to the Soviet

- (a) boots
- (b) coat
- (c) scarf
- (d) hat

Question 11.

Which among the following groups was against any kind of political or social change?

- (a) Nationalists
- (b) conservatives
- (c) liberals
- (d) radicals

Question 12.

Which of these statements is/are correct about Europe after the French Revolution?

- (a) Suddenly it seemed possible to change the aristocratic society of the 18th century.
- (b) However not everyone wanted a complete transformation of society.
- (c) Some wanted gradual shift, while others wanted complete change of society.
- (d) All the above

Question 13.

Which of the following factors made autocracy unpopular in Russia?

- (a) The German origin of the Tsarina Alexandra
- (b) Poor advisors like the Monk Rasputin
- (c) The huge cost of fighting in the World War I
- (d) Both (a) and (b)

Question 14.

How can you say that the 'liberals' were not 'democrats'?

- (a) They did not believe in universal adult franchise
- (b) They felt that only men of property should have a right to vote
- (c) Women should not have right to vote
- (d) All the above

Question 15.

What kind of developments took place as a result of new political trends in Europe?

- (a) Industrial Revolution occurred
- (b) New cities came up

- (c) Railways expanded
- (d) All the above

Question 16.

Who conspired in Italy to bring about a revolution?

- (a) Bismarck
- (b) Karl Marx
- (c) Giuseppe Mazzini
- (d) None

Question 17.

What were the demands made by the workers in St. Petersburg who went on a strike?

- (a) Reduction of working time to eight hours
- (b) Increase in wages
- (c) Improvement in working conditions
- (d) All the above

Question 18.

In the World War I, which started in 1914, Russia fought against

- (a) Britain and France
- (b) Germany and Austria
- (c) America
- (d) All the above

[Answer](#)

Question 19.

Which of the following statements is/are correct?

- (a) By 1916, railway lines in Russia began to break down
- (b) There were labour shortages and small workshops producing essentials were shut down
- (c) Large supplies of grain were sent to feed the army
- (d) All the above

Question 20.

On 27th February 1917, soldiers and striking workers gathered to form a council called

- (a) Soviet Council
- (b) Petrograd Soviet
- (c) Moscow Union
- (d) Russian Council

## **INFORMATION TECHNOLOGY**

### **Topic: Digital Documentation**

#### **Q-1 Answer the following Questions:**

1. What is find and replace option?
2. Explain the types of alignment?
3. What do you mean by formatting of a text?
4. What is bullet and numbering?
5. Explain Line spacing option?

#### **Q-2 Write the steps for the following:**

1. To save a file
2. To open a file
3. To change the font color of the text
4. To copy the text in a document
5. To replace a word in a document



## (व्यावहारिकव्याकरण)

1. शब्द किसे कहते हैं? शब्द पद कब बनता है?
2. शब्द और पद में अंतर बताइए।
3. अनुस्वार और अनुनासिक में अंतर बताते हुए पाँचपाँच उदाहरण दीजिए।
4. उपसर्ग किसे कहते हैं? कोई 5 उपसर्ग लिखकर उससे दो दो शब्द बनाइए।
5. प्रत्यय किसे कहते हैं? कोई पाँच प्रत्यय लिखकर उससे दो दो शब्द बनाइए।
6. विलोम शब्द किसे कहते हैं? किन्हीं पाँच शब्दों के विलोम शब्द लिखिए।
7. पर्यायवाची शब्द किसे कहते हैं? किन्हीं पाँच शब्दों के दो दो पर्यायवाची शब्द लिखिए।
8. श्रुतिसमभिन्नार्थक शब्द किसे कहते हैं? उदाहरण सहित बताइए।

पुनरावृत्तिकार्यपत्रिका -2

### लेखन खंड

#### **1. निम्नलिखित विषयों पर अनुच्छेद लिखिए।**

आदर्श विद्यार्थी  
कंप्यूटर एक जादुई पिटारा

#### **2. लेखन**

1. मित्र को उसकी बड़ी बहन के विवाह पर बधाई – पत्र लिखिए।
2. वार्षिक परीक्षा की समुचित तैयारी का सुझाव देते हुए अपने छोटे भाई को एक पत्र लिखिए।

#### **3. नारा लेखन**

1. हिंदी भाषा का महत्व बताते हुए एक सुंदर नारा लिखिए।
2. यातायात सुरक्षा का महत्व बताते हुए एक सुंदर नारा लिखिए।

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