

BRAIN INTERNATIONAL SCHOOL

English Worksheet

Class: IX

January 2025

Literature

1. Explain the values Kalam learned from his father and analyse how they influenced his life.
2. Evaluate the challenges Maria Sharapova faced during her tennis journey and illustrate how she overcame them.
3. Interpret how the poet depicts the process of killing a tree as symbolic of human destruction.
4. Describe how the description of Kathmandu's streets reflects the cultural diversity of the city.
5. Assess the lessons of wisdom and Justice in the story "In the Kingdom of Fools".
6. Analyse the emotions the poet conveys in "A Slumber Did My Spirit Seal."
7. Discuss how Gerrard's intelligence and composure enable him to deal with the intruder.
8. Critique how "The Happy Prince" highlights the disparity between wealth and poverty.
9. Illustrate the significance of the last leaf in Johnsy's recovery in "The Last Leaf."
10. Examine how "A House Is Not a Home" explores the importance of community support during adversity.
11. Analyse what the beggar's transformation reveals about the power of kindness.
12. Critique how the absurdity in "The Kingdom of Fools" serves as a commentary on irrational governance.
13. Evaluate the role of perseverance in Maria Sharapova's success story.
14. Interpret how Behrman's sacrifice in "The Last Leaf" reflects the theme of selflessness.
15. Summarize the message conveyed by the poem "On Killing a Tree" about nature's resilience.

Grammar

i. Fill in the blank by choosing the correct option to complete an online update.

The climate control comment by an activist _____ on social media yesterday.

- A. blow up
- B. blew up
- C. is blown
- D. will be blown

ii. Read the conversation between a doctor and his patient. Complete the sentence by reporting the patient's reply correctly.

Doctor: Do you feel down from time-to-time Mr. Gopalan?

Patient: Yes, I do not stay in a good mood.

The doctor, while trying to figure out his patient's ailment, asked about his well-being, to which, the patient affirmed ____.

iii. Select the correct option to fill in the blank for the given line, from a health magazine.

The advertisement read, "If you smoke, statistically your story _____ end 15% before it should."

- A. must
- B. should
- C. will
- D. ought to

iv. Select the option that identifies the error and supplies the correction for the following line, from a news report:

Last week a child was not allowed to board the plane at Ranchi airport.

| Error | Correction |
|-------|------------|
| | |

v. Complete the given narrative by filling in the blank with the correct option:

As I was standing on the dock, looking out at the lake for the last time, a feeling of emptiness ___ over me like darkness.

- A. will wash
- B. had washed
- C. will have washed
- D. washed

vi. Fill in the blank by using the correct form of the word in the bracket for the given portion of a letter:

Subject: Request for Approval

Dear Sir

This is to respectfully submit that I _____ (seek) approval for organising a tree plantation drive to be undertaken by the club.

vii. Report the dialogue between a grandson and his grandfather, by completing the sentence:

Grandson: Grandpa, who are your superheroes?

Grandpa: Anyone who shows kindness and compassion to others.

In response to the question about his superheroes, grandfather says that _____.

viii. Identify the error in the given sentence, from a school magazine report, and supply the correction.

In order to balancing the sentiments of the Eagles and the Hawks, the Student Council suggested a rematch between the teams.

| Error | Correction |
|-------|------------|
| | |

ix. Sunil shared some information with Tariq about a holiday at sea. Report Tariq's question.

Did you enjoy travelling by sea?

x. Fill in the blank by choosing the correct option to complete the slogan by the Ministry for Child Welfare.

"WE ___ AFFORD TO NEGLECT CHILDREN? THINK TWICE!!"

- A. WILL
- B. MAY
- C. NEED
- D. CAN

xi. Select the correct option to complete the narration of the dialogue between Latha and her father.

Father: Why ask so many questions, Latha?

Latha: I believe that if you don't know the answer, keep asking till you do!

Father asked Latha the reason for the many questions she was asking. Latha exclaimed good-humouredly that in the event of not knowing the answer, one should ____.

- A. keep asking till one does.
- B. kept asking till one does.
- C. keep asking till one do.
- D. kept on to ask till one do.

xii. Identify the error on a shop's hoarding and supply the correction, for the following sales offer:

Gumnaam & Daughters Pvt. Ltd. Bindapur, Jharkhand

Massive discount for all senior citizens vaccinated with the precautionary dose.

| Error | Correction |
|-------|------------|
| | |

Writing skills

1. Complete the story, explaining what happens next.

It was a dark and stormy evening when I decided to take a shortcut home. As I passed by the old, abandoned house at the end of the street, I heard a strange noise coming from inside. Curiosity got the better of me, and I stepped closer to investigate...

2. Today you had a moment when you felt completely out of your comfort zone but learned an important life lesson. Write a diary entry in 100-120 words describing what happened.

3. Write a short description of A.R. Rahman in 100-120 words with the help of the given clues:

- **Born:** January 6, 1966, Chennai, Tamil Nadu. Rises to success as A.R. Rahman, music director and singer.
- **Family:** Lost father at an early age; mother's indulgence played a significant role.
- **Trained Under:** Master Dhanraj, Ilaiyaraaja.
- **Education:** Graduated in Western classical music from Trinity College of Music.
- **Significant Year:** 1992 – Sets up recording studio; film career begins.
- **Achievements:** Fourteen Filmfare Awards, four National Film Awards, two Grammy Awards, two Academy Awards, Padma Bhushan in 2010, etc.
- **Contribution to Music:** Immense influence, national icon.

ब्रेन इंटरनेशनल स्कूल

विषय हिंदी

कक्षा 9 अभ्यास पत्र

जनवरी (2024-25)

1. निम्नालिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए-

संसार के सभी देशों में शिक्षित व्यक्ति की सबसे पहली पहचान यह होती है कि वह अपनी मातृभाषा में दक्षता से काम कर सकता है। केवल भारत ही एक ऐसा देश है जिसमें शिक्षित व्यक्ति वह समझा जाता है, जो अंग्रेजी भाषा में दक्ष हो जबकि विदेशों में सुसंस्कृत व्यक्ति वह समझा जाता है जिसके घर में अपनी भाषा की पुस्तकों का संग्रह हो और जिसे बराबर यह पता रहे कि उसकी भाषा के अच्छे लेखक और कवि कौन हैं। भारत में स्थिति दूसरी है। यहाँ घर में प्रायः साज-सज्जा के आधुनिक उपकरण तो होते हैं किंतु अपनी भाषा की कोई पुस्तक नहीं होती है। यह दुरवस्था भले ही किसी ऐतिहासिक प्रक्रिया का परिणाम है, किंतु यह सुदृशा नहीं है, दुरवस्था ही है। भारतीय लेखकों की स्थिति विदेशी लेखकों के सामने हीन ही है क्योंकि इन सब लेखकों की कृतियाँ वहाँ के अत्यंत सुशिक्षित लोग ही पढ़ते हैं। केवल हम ही नहीं, पुस्तकों पर भी यहाँ के तथाकथित समुदाय की दृष्टि प्रायः नहीं पड़ती। हमारा उच्च शिक्षित समुदाय जो कुछ पढ़ना चाहता है, उसे अंग्रेजी में ही पढ़ लेता है। उसे यह जानने की इच्छा नहीं होती कि शरीर से वह जिस समाज का सदस्य है उसके मनोभाव उपन्यास और काव्य में किस अंदा से व्यक्त हो रहे हैं।

i. भारतीय भाषाओं के साहित्य के प्रति समाज के किस वर्ग में अरुचि की भावना है ?

क. अशिक्षित वर्ग

ख. अत्यंत सुशिक्षित वर्ग

ग. शिक्षित वर्ग

घ. धनी वर्ग

ii. भारत में शिक्षित व्यक्ति की क्या पहचान है ?

क. पूर्ण रूप से शिक्षित

ख. अपनी मातृभाषा में दक्ष

ग. अंग्रेजी में निपुण

घ. अनेक भाषाओं का ज्ञाता

iii. भारतीय लेखकों की हीन स्थिति का क्या कारण है ?

क. गरीबी

ख. सुशिक्षित लोगों द्वारा अंग्रेजी को अधिक महत्त्व देना

ग. रचनात्मकता का अभाव

घ. प्रचार न करना

iv. संसार शब्द का समानार्थी शब्द लिखिए।

क. राष्ट्र

ख. समाज

ग. देश

घ. जगत

v. इस गद्यांश का उपयुक्त शीर्षक दीजिए।

क. शिक्षित मनुष्य का महत्त्व

ख. भाषा का ज्ञान

ग. मातृभाषा का महत्त्व

घ. शिक्षित समुदाय

2. निम्नलिखित शब्दों में से मूल शब्द तथा प्रत्यय अलग करके लिखिए-

(क) बनारसी

(ख) ज़हरीला

(ग) चढ़ावा

(घ) अपनत्व

(ङ) पढ़ाकू

3. दिए गए चित्र का वर्णन लगभग 120 शब्दों में कीजिए -



4. अर्थ के आधार निम्नलिखित वाक्यों के भेद लिखिए-

(क) मुझे आज पाठशाला नहीं जाना।

(ख) यदि मन लगाकर पढ़ती, तो अच्छे अंक आते।

(ग) दरवाज़ा बंद कर दो।

(घ) आप कहाँ से आ रहे हैं?

(ङ) कृपया मेरा पता भी लिख लीजिए।

(च) हाय! मेरे पेट में बहुत दर्द है।

(छ) शायद मैं कल बाज़ार जाऊँ।

5. निर्देशानुसार वाक्य परिवर्तित कीजिए-

(क) वह पढ़ रहा है। (संदेहवाचक)

(ख) तुम वहाँ जाओगे। (निषेधवाचक)

(ग) तुम प्रथम स्थान प्राप्त करोगे (संकेतवाचक)

(घ) आपकी हर इच्छा पूर्ण हो। (इच्छावाचक)

6. अपनी बड़ी बहन को पत्र लिखिए जिसमें फ़ौज में भर्ती होने पर उसे बधाई दी गई हो ।

MATHS HOLIDAYS HOMEWORK
Class IX :Session 2024-25
Subject - Mathematics
Sample Question Paper - 1

Time Allowed: 3 hours

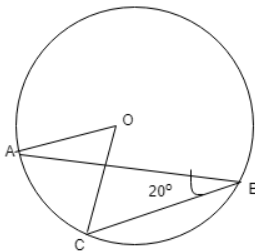
Maximum Marks: 80

General Instructions:

1. This Question Paper has 5 Sections A-E.
2. Section A has 20 MCQs carrying 1 mark each.
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment carrying 04 marks each.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

Section A

1. The point which lies on x-axis at a distance of 3 units in the positive direction of x-axis is [1]
a) (0, -3) b) (0, 3)
c) (3, 0) d) (-3, 0)
2. The length of the sides of a triangle are 5 cm, 7 cm and 8 cm. Area of the triangle is : [1]
a) $100\sqrt{3} \text{ cm}^2$ b) $10\sqrt{3} \text{ cm}^2$
c) 300 cm^2 d) $50\sqrt{3} \text{ cm}^2$
3. In the figure, O is the centre of the circle. If $\angle ABC = 20^\circ$, then $\angle AOC$ is equal to : [1]

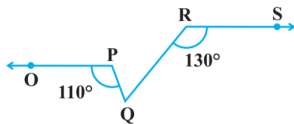


- a) 60° b) 10°
c) 40° d) 20°
4. In a trapezium ABCD, E and F be the midpoints of the diagonals AC and BD respectively. Then, $EF = ?$ [1]

c) Only one

d) Three

13. In a figure, if $OP \parallel RS$, $\angle OPQ = 110^\circ$ and $\angle QRS = 130^\circ$, then $\angle PQR$ is equal to [1]



a) 40°

b) 50°

c) 70°

d) 60°

14. After rationalising the denominator of $\frac{7}{3\sqrt{3}-2\sqrt{2}}$, we get the denominator as [1]

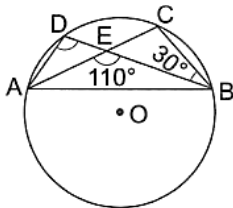
a) 5

b) 35

c) 19

d) 13

15. In the given figure, O is the centre of a circle and chords AC and BD intersect at E. If $\angle AEB = 110^\circ$ and $\angle CBE = 30^\circ$, then $\angle ADB = ?$ [1]



a) 80°

b) 60°

c) 90°

d) 70°

16. x co-ordinate is known as [1]

a) Origin

b) Points

c) Abscissa

d) Ordinate

17. If $(-2, 5)$ is a solution of $2x + my = 11$, then the value of 'm' is [1]

a) -2

b) 2

c) 3

d) -3

18. The value of $\frac{(a^2-b^2)^3+(b^2-c^2)^3+(c^2-a^2)^3}{(a-b)^3+(b-c)^3+(c-a)^3}$ is [1]

a) $3(a-b)(b-c)(c-a)$

b) $(a+b)(b+c)(c+a)$

c) $3(a+b)(b+c)(c+a)(a-b)(b-c)(c-a)$

d) $2(a-b)(b-c)(c-a)$

19. **Assertion (A):** If the diagonals of a parallelogram ABCD are equal, then $\angle ABC = 90^\circ$ [1]

Reason (R): If the diagonals of a parallelogram are equal, it becomes a rectangle.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

20. **Assertion (A):** $2 + \sqrt{6}$ is an irrational number. [1]

Reason (R): Sum of a rational number and an irrational number is always an irrational number.

a) Both A and R are true and R is the correct explanation of A.

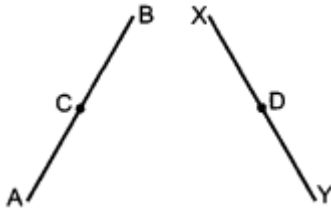
b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

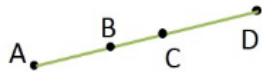
d) A is false but R is true.

Section B

21. In fig. $AC = XD$, C is the mid-point of AB and D is the mid-point of XY. Using a Euclid's axiom, show that $AB = XY$. [2]



22. In fig., if $AC = BD$, then prove that $AB = CD$ [2]



23. Name the quadrants in which the following points lie : [2]

- (i) P(4, 4)
- (ii) Q(-4, 4)
- (iii) R(-4, -4)
- (iv) S(4, -4)

24. If $x = 3 + 2\sqrt{2}$, find the value of $(x^2 + \frac{1}{x^2})$. [2]

OR

Prove that: $\frac{1}{3+\sqrt{7}} + \frac{1}{\sqrt{7}+\sqrt{5}} + \frac{1}{\sqrt{5}+\sqrt{3}} + \frac{1}{\sqrt{3}+1} = 1$.

25. The radii of two cones are in the ratio 2 : 1 and their volumes are equal. What is the ratio of their heights? [2]

OR

A hollow spherical shell is made of a metal of density 4.5 g per cm^3 . If its internal and external radii are 8 cm and 9 cm respectively, find the weight of the shell.

Section C

26. Locate $\sqrt{10}$ on the number line. [3]

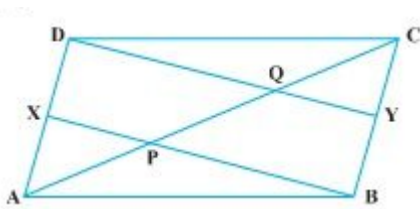
27. A random survey of the number of children of various age groups playing in a park was found as follows : [3]

| Age (in years) | Number of children |
|----------------|--------------------|
| 1-2 | 5 |
| 2-3 | 3 |
| 3-5 | 6 |
| 5-7 | 12 |
| 7-10 | 9 |
| 10-15 | 10 |
| 15-17 | 4 |

Draw a histogram to represent the data above.

28. In Fig. X and Y are respectively the mid-points of the opposite sides AD and BC of a parallelogram ABCD. [3]

Also, BX and DY intersect AC at P and Q, respectively. Show that $AP = PQ = QC$.



29. Find the solution of the linear equation $x + 2y = 8$ which represents a point on [3]
- The x-axis
 - The y-axis

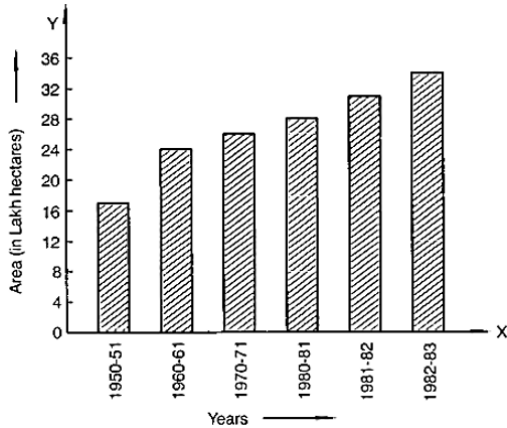
30. The marks scored by 750 students in an examination are given in the form of a frequency distribution table. [3]

| Marks: | 600-640 | 640-680 | 680-720 | 720-760 | 760-800 | 800-840 | 840-880 |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| No. of Students: | 16 | 45 | 156 | 284 | 172 | 59 | 18 |

Represent this data in the form of a histogram and construct a frequency polygon.

OR

Read the bar graph given in Figure and answer the following questions:



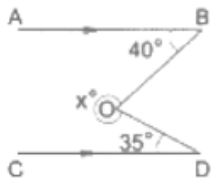
- What information is given by the bar graph?
- In which years the areas under the sugarcane crop were the maximum and the minimum?
- State whether true or false:

The area under the sugarcane crop in the year 1982-83 is three times that of the year 1950-51.

31. If both $(x - 2)$ and $(x - \frac{1}{2})$ are factors of $px^2 + 5x + r$, Show that $p = r$. [3]

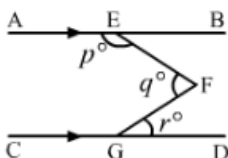
Section D

32. In the given figure, $AB \parallel CD$, $\angle ABO = 40^\circ$, $\angle CDO = 35^\circ$. Find the value of the reflex $\angle BOD$ and hence the value of x . [5]



OR

In the given figure, $AB \parallel CD$. Prove that $p + q - r = 180$.



33. What length of tarpaulin 3 m wide will be required to make conical tent of height 8 m and base radius 6 m? [5]

Assume that the extra length of material that will be required for stitching margins and wastage in cutting is approximately 20 cm. (Use $\pi = 3.14$)

34. The length of the sides of a triangle are in the ratio 3 : 4 : 5 and its perimeter is 144 cm. Find the area of the triangle and the height corresponding to the longest side [5]

OR

Two sides of a triangular field are 85 m and 154 m in length and its perimeter is 324 m. Find the area of the field.

35. Using factor theorem, factorize the polynomial: $x^3 - 6x^2 + 3x + 10$ [5]

Section E

36. **Read the following text carefully and answer the questions that follow:** [4]

Peter, Kevin James, Reeta and Veena were students of Class 9th B at Govt Sr Sec School, Sector 5, Gurgaon.

Once the teacher told **Peter to think a number x and to Kevin to think another number y** so that the difference of the numbers is 10 ($x > y$).

Now the teacher asked James to add double of Peter's number and that three times of Kevin's number, the total was found 120.

Reeta just entered in the class, she did not know any number.

The teacher said Reeta to form the 1st equation with two variables x and y.

Now Veena just entered the class so the teacher told her to form 2nd equation with two variables x and y.

Now teacher Told Reeta to find the values of x and y. Peter and kelvin were told to verify the numbers x and y.



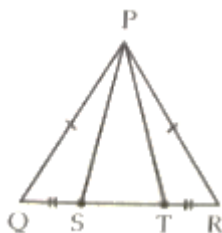
- What are the equation formed by Reeta and Veena? (1)
- What was the equation formed by Veena? (1)
- Which number did Peter think? (2)

OR

Which number did Kelvin think? (2)

37. **Read the following text carefully and answer the questions that follow:** [4]

A children's park is in the shape of isosceles triangle said PQR with $PQ = PR$, S and T are points on QR such that $QT = RS$.



- Which rule is applied to prove that congruency of $\triangle PQS$ and $\triangle PRT$. (1)
- Name the type of $\triangle PST$. (1)
- If $PQ = 6$ cm and $QR = 7$ cm, then find perimeter of $\triangle PQR$. (2)

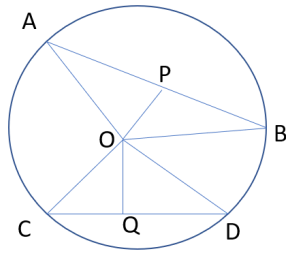
OR

If $\angle QPR = 80^\circ$ find $\angle PQR$? (2)

38. **Read the following text carefully and answer the questions that follow:**

[4]

Rohan draws a circle of radius 10 cm with the help of a compass and scale. He also draws two chords, AB and CD in such a way that the perpendicular distance from the center to AB and CD are 6 cm and 8 cm respectively. Now, he has some doubts that are given below.



- i. Show that the perpendicular drawn from the Centre of a circle to a chord bisects the chord. (1)
- ii. What is the length of CD? (1)
- iii. What is the length of AB? (2)

OR

How many circles can be drawn from given three noncollinear points? (2)

Class IX Session 2024-25
Subject - Mathematics
Sample Question Paper - 2

Time Allowed: 3 hours

Maximum Marks: 80

General Instructions:

1. This Question Paper has 5 Sections A-E.
2. Section A has 20 MCQs carrying 1 mark each.
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment carrying 04 marks each.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

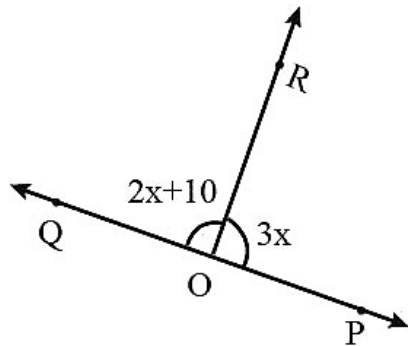
Section A

1. $\sqrt{12} \times \sqrt{15} =$ [1]
 - a) 5
 - b) $5\sqrt{6}$
 - c) $6\sqrt{5}$
 - d) 6
2. The graph of $y = 6$ is a line [1]
 - a) Parallel to x-axis at a distance 6 units from the origin
 - b) Making an intercept 6 on the x- axis.
 - c) Making an intercept 6 on both the axes.
 - d) Parallel to y-axis at a distance 6 units from the origin
3. Point $(- 10,0)$ lies [1]
 - a) on the negative direction of the y-axis
 - b) on the negative direction of the X-axis
 - c) in the third quadrant
 - d) in the fourth quadrant
4. In a histogram the class intervals or the groups are taken along [1]
 - a) X-axis
 - b) Y-axis
 - c) both of X-axis and Y-axis
 - d) in between X and Y axis
5. If $(2, 0)$ is a solution of the linear equation $2x + 3y = k$, then the value of k is [1]
 - a) 2
 - b) 4
 - c) 5
 - d) 6

6. The line segment with one end point at the centre and the other at any point on the circle is called _____. [1]

- a) diameter
- b) sector
- c) chord
- d) radius

7. Given $\angle POR = 3x$ and $\angle QOR = 2x + 10^\circ$. If $\angle POQ$ is a straight line, then the value of x is [1]



- a) 36°
- b) 30°
- c) 34°
- d) 42°

8. A diagonal of a Rectangle is inclined to one side of the rectangle at an angle of 25° . The Acute Angle between the diagonals is : [1]

- a) 115°
- b) 40°
- c) 50°
- d) 25°

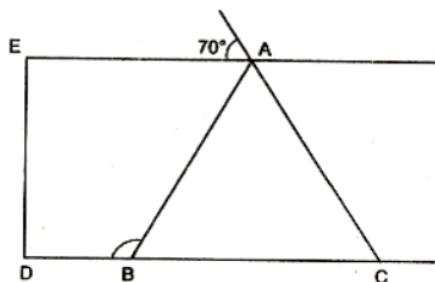
9. The remainder when $x^{31} - 31$ is divided by $x + 1$ is [1]

- a) -32
- b) 31
- c) 30
- d) 0

10. A linear equation in two variables is of the form $ax + by + c = 0$, where [1]

- a) $a \neq 0$ and $b = 0$
- b) $a = 0$ and $b = 0$
- c) $a \neq 0$ and $b \neq 0$
- d) $a = 0$ and $b \neq 0$

11. In figure, if $AE \parallel DC$ and $AB = AC$, the value of $\angle ABD$ is [1]



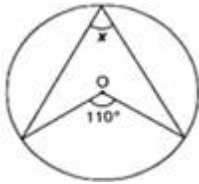
- a) 110°
- b) 120°
- c) 130°
- d) 70°

12. Two adjacent angles of a parallelogram are in the ratio 4 : 5. The angles are [1]

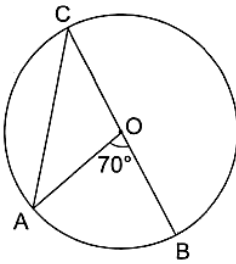
- a) $90^\circ, 90^\circ$
- b) $80^\circ, 100^\circ$
- c) $60^\circ, 120^\circ$
- d) $40^\circ, 140^\circ$

13. In the given figure, a circle is centred at O. The value of x is : [1]

23. Find an angle marked as x in given figure where O is the centre of the circle: [2]

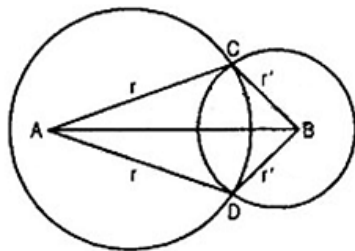


24. In the given figure, O is the centre of the circle and $\angle AOB = 70^\circ$. Calculate the values of (i) $\angle OCA$, (ii) $\angle OAC$. [2]



OR

Prove that the line of centres of two intersecting circles subtends equal angles at the two points of intersection.



25. The following values of x and y are thought to satisfy a linear equation : [2]

| | | |
|-----|---|---|
| x | 1 | 2 |
| y | 1 | 3 |

OR

Cost of pen is two half times the cost of a pencil. Express this situation as a linear equation in two variable.

Section C

26. Locate $\sqrt{3}$ on the number line. [3]
27. If $x^2 + \frac{1}{x^2} = 34$, find $x^3 + \frac{1}{x^3} - 9$. [3]
28. The cost of leveling the ground in the form of a triangle having the sides 51m, 37m and 20m at the rate of Rs.3 per m^2 is Rs.918. State whether the statement is true or false and justify your answer. [3]

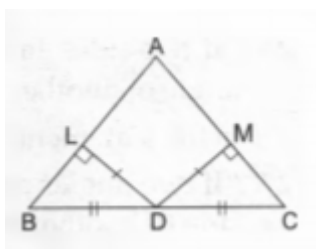
OR

The sides of a triangular plot are in the ratio of 3 : 5 : 7 and its perimeter is 300 m. Find its area.

29. A heap of wheat is in the form of a cone whose diameter is 10.5 m and height is 3 m. Find its volume. The heap is to be covered by canvas to protect it from rain. Find the area of the canvas required. [3]
30. $\triangle ABC$ is an isosceles triangle in which $AB = AC$. Side BA is produced to D such that $AD = AB$. Show that $\angle BCD$ is a right angle. [3]

OR

In $\triangle ABC$, D is the midpoint of BC . if $DL \perp AB$ and $DM \perp AC$ such that $DL = DM$. prove that $AB = AC$.



31. Draw the graphs of $y = x$ and $y = -x$ in the same graph. Also find the co-ordinates of the point where the two lines intersect. [3]

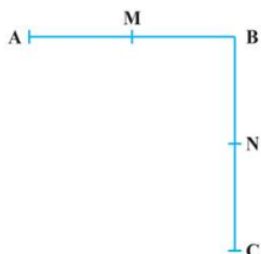
Section D

32. If $a = \frac{\sqrt{2}+1}{\sqrt{2}-1}$ and $b = \frac{\sqrt{2}-1}{\sqrt{2}+1}$, then find the value of $a^2 + b^2 - 4ab$. [5]

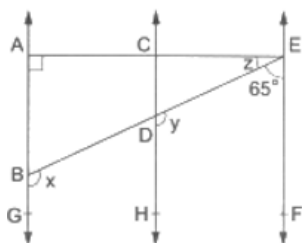
OR

If x is a positive real number and exponents are rational numbers, simplify $\left(\frac{x^b}{x^c}\right)^{b+c-a} \cdot \left(\frac{x^c}{x^a}\right)^{c+a-b} \cdot \left(\frac{x^a}{x^b}\right)^{a+b-c}$.

33. i. $AB = BC$, M is the mid-point of AB and N is the mid-point of BC . Show that $AM = NC$. [5]
 ii. $BM = BN$, M is the mid-point of AB and N is the mid-point of BC . Show that $AB = BC$.

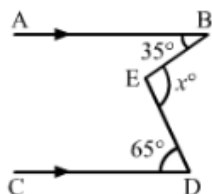


34. In the given figure, $AB \parallel CD \parallel EF$, $\angle DBG = x$, $\angle EDH = y$, $\angle AEB = z$, $\angle EAB = 90^\circ$ and $\angle BEF = 65^\circ$. Find the values of x , y and z . [5]



OR

In each of the figures given below, $AB \parallel CD$. Find the value of x° in each case.



35. The following table shows the average daily earnings of 40 general stores in a market, during a certain week: [5]

| | | | | | | |
|------------------------------|---------|---------|---------|---------|---------|----------|
| Daily earning (in rupees) | 700-750 | 750-800 | 800-850 | 850-900 | 900-950 | 950-1000 |
| Number of stores | 6 | 9 | 2 | 7 | 11 | 5 |

Draw a histogram to represent the above data.

Section E

36. Read the following text carefully and answer the questions that follow: [4]

Vinod and Basant have an adventure tourism business in Rishikesh. They have a resort in Rishikesh but now they are planning to build some tent houses too.

The newly built tent house will have all the basic amenities and it will attract the young tourists coming for

adventure. Their conical tent is 9 m high and the radius of its base is 12 m.



- i. What is the cost of the canvas required to make it, if 1 m^2 canvas costs ₹ 10? (1)
- ii. How many persons can be accommodated in the tent, if each person requires 2 m^2 on the ground? (1)
- iii. How many persons can be accommodated in the tent, if each person requires 15 m^3 of space to breathe in? (2)

OR

If each person requires 20 m^3 of space to breathe in and 100 person can be accommodated then what should be height of tent? (2)

37. **Read the following text carefully and answer the questions that follow:**

[4]

Reeta was studying in the class 9th C of St. Surya Public school, Mehrauli, New Delhi-110030

Once Ranjeet and his daughter Reeta were returning after attending teachers' parent meeting at Reeta's school.

As the home of Ranjeet was close to the school so they were coming by walking.

Reeta asked her father, "Daddy how old are you?"

Ranjeet said, "Sum of ages of both of us is 55 years, After 10 years my age will be double of you."



- i. What is the second equation formed? (1)
- ii. What is the present age of Reeta in years? (1)
- iii. What is the present age of Ranjeet in years? (2)

OR

If the ratio of age of Reeta and her mother is 3 : 7 then what is the age of Reeta's mother in years? (2)

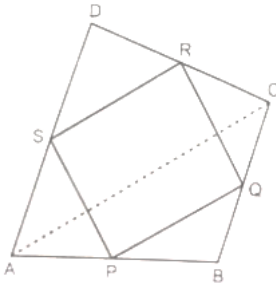
38. **Read the following text carefully and answer the questions that follow:**

[4]

Modern curricula include several problem-solving strategies. Teachers model the process, and students work

independently to copy it. Sheela Maths teacher of class 9th wants to explain the properties of parallelograms in a creative way, so she gave students colored paper in the shape of a quadrilateral and then ask the students to make

a parallelogram from it by using paper folding.



- i. How can a parallelogram be formed by using paper folding? (1)
- ii. If $\angle RSP = 30^\circ$, then find $\angle RQP$. (1)
- iii. If $\angle RSP = 50^\circ$, then find $\angle SPQ$? (2)

OR

If $SP = 3$ cm, Find the RQ. (2)

BRAIN INTERNATIONAL SCHOOL

Subject: Physics

Class-IX

Worksheet Jan'2025

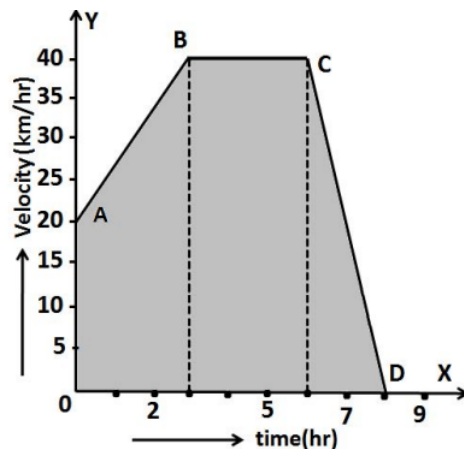
Answer the following questions briefly:

1. Define time period of sound wave. What is its SI unit? How is it related with frequency?
2. If you jerk a piece of paper under a book quick enough, the book does not move. Why?
3. A car and a motorbike both are running with the same speed. Which of the two has greater momentum and why?
4. We say that displacement can be positive, negative and zero. Give one example for each case.
5. State Archimedes' principle.
6. Calculate the force required to impact a car, a velocity of 30m/s in 10s. The mass of the car is 1500 kg.
7. Why are the ends of tools like knives, pins and nails pointed?
8. In a high jump athletic event, why are athletes made to fall either on a cushioned bed or on a sand bed?
9. What is the wavelength of sound waves produced in air by a vibrating tuning fork whose frequency is 256 Hz when the velocity of sound in air is 330 m/s?
10. A particle is moving in a circle of diameter 20 m. What is its distance and as per the table given below:

| S.no | Rounds | Displacement | Distance |
|------|--------|--------------|----------|
| 1 | 1 | | |
| 2 | 1.5 | | |

11. **Stopping distance of vehicles:** When brakes are applied to a moving vehicle, the distance it travels before stopping is called stopping distance. It is an important factor for road safety and depends on the initial velocity and the braking capacity, or deceleration that is caused by the braking. A car travelling at speed 72km/hr suddenly applies the brake with the deceleration of 5m/s^2 . Find the stopping distance of the car?
12. The weight of any person on the moon is about $1/6$ times that on the Earth. A person can lift a mass of 15 kg on the Earth. What will be the maximum mass, which can be lifted by the same force applied by the person on the moon?
13. Which will exert more pressure 100 kg mass on an area of 10m^2 or 50kg mass on an area of 4m^2 ?
(Take $g = 10\text{ m/s}^2$)

14. State Newton's second law of motion. Derive the mathematical relation of Newton's second law of motion.
15. A man of mass 62 kg sums up a stair case of 65 steps in 12 s. If height of each step is 20 cm, find his power.
16. The velocity of a body moving in a straight line is increased by applying a constant force F , for some distance in the direction of motion. Prove that the increase in the kinetic energy of the body is equal to the work done by the force on the body.
17. (a) An arrow moves forward when released from a stretched bow. Explain the transformation of energy in the process.
 (b) A boy of mass climbs up a vertical height of 100 m. Calculate the amount of potential energy he gains.
18. The graph given below is the velocity-time graph for a moving body. Find
 (i) velocity of the body at point C
 (ii) acceleration acting on the body between A and B



19. Read the given passage and answer the following questions based on the passage and related studied concept:

The phenomenon of “weightlessness” occurs when there is no force of support on your body. When your body is effectively in ‘free fall’, accelerating downward at the acceleration due to gravity, then you are not being supported. While falling, there is no change in the direction of motion of the objects. But due to earth’s attraction, there will be change in velocity. Whenever an object falls towards the earth, acceleration is involved. This acceleration is due to gravitational force of earth.

- (i) What do you mean by free fall?
- (ii) Write equation of motion if an object is thrown in vertically upwards direction.
- (iii) Mass of an object is 10kg. What is the weight on earth? (1+1+1)

20. ASSERTION-REASON QUESTIONS:

Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.

(a) **Assertion:** Sound would travel faster on a hot summer day than on a cold winter day.

Reason: Speed of sound does not depend upon the medium.

(b) **Assertion:** Forces of action and reaction act on the same body.

Reason: These forces are always equal and opposite.

(c) **Assertion :** An object having capability to do work is said to possess energy.

Reason: Energy has the same unit as that of work.

BRAIN INTERNATIONAL SCHOOL

Subject: Chemistry

Class: IX

Worksheet Jan'25.

1. Name the phenomenon which occurs in these following processes:
(a) Formation of clouds (b) Drying of wet clothes (c) Wax melting in sun.
2. Define the following : (a) Boiling point (b) Melting point (c) Evaporation
3. Differentiate between three states of matter .
4. Define solution. Give an example of gas in liquid solution.
5. Write dispersed phase and dispersion medium of emulsion.
6. Define suspension and write its properties .
7. Smoke and fog both are aerosols. In what way are they different ?
8. Define an alloy . Why an alloy is considered as a mixture ?
10. A solution contains 40g acetic acid and 500 ml aq. solution .What is the concentration of acetic acid solution?
11. 5.18 g of copper metal is first converted to copper nitrate and subsequently to 6.45 g CuO. In another experiment 1.10 g copper gave 1.37 g of CuO on combustion. Show that the above data verify the law of definite proportion.
12. Write Dalton's Atomic theory .
13. Write down the formulae of : (i) sodium oxide (ii) aluminium chloride
(iii) sodium sulphide (iv) magnesium hydroxide
14. An atom of an element has 7 electrons in its L shell.
(a) What is its atomic number ?
(b) State its valency.
(c) Identify the element
15. In what way is the Rutherford's atomic model different from that of Thomson's atomic model ?
16. Why are the shells in which electrons revolve called energy levels?
17. Why do Helium ,Neon and Argon have zero valency ?
- 18. Answer the following questions on the basis of your understanding of the following paragraph and related studied concepts :**

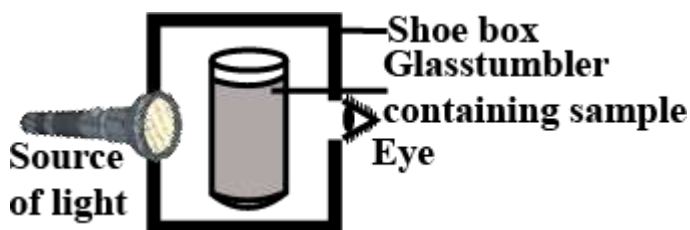
In order to overcome the objections raised against Rutherford's model of an atom, Neil Bohr put forward the following postulates about model of an atom.

- (i) Only certain special orbits known as discrete orbits of electrons are allowed inside the atom.
- (ii) While revolving in discrete orbits the electrons do not radiate energy .
Write the following statements in your notebook after completing them :
(a) Atoms are made up of _____, _____ and _____.

- (b) _____ amended Rutherford's shortcomings .
- (c) Electrons do not radiate energy while revolving in____orbits.
- (d) Discrete orbits are also known as_____.
- (e) The K shell can accommodate_____electrons whereas L can accommodate _____electrons.
- (f) Atomic mass of an element is the sum of number of_____and_____.

19. A group of students took an old shoe box and covered it with a black paper from all sides. They fixed a source of light (a torch) at one end of the box by making a hole in it and made another hole on the other side to view the light. They placed a milk sample contained in a beaker/tumbler in the box as shown in the figure. They were amazed to see that milk taken in the tumbler was illuminated .They tried the same activity by taking a salt solution but found that light simply passed through it

- (i) Explain why milk sample was illuminated ? Name the phenomenon involved.



- (ii) Same results were not observed with a salt solution. Explain.
- (iii) Can you suggest two more solutions which would show the same effect as shown by the milk solution ?

20. ASSERTION-REASON QUESTIONS:

Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below :

- Both A and R are true and R is correct explanation of the assertion.
 - Both A and R are true but R is not the correct explanation of the assertion.
 - A is true but R is false.
 - A is false but R is true.
- (i) **Assertion** : Charge on 1 electron is $1.602 \times 10^{-19} \text{ C}$
Reason : Mass of 1 electron is $1.602 \times 10^{-19} \text{ Kg}$.
- (ii) **Assertion** : Helium has 2 valence electrons and its valency is 0.
Reason : Helium is the most abundant element in universe.
- (iii) **Assertion**: Colloidal particles are big enough to scatter light
Reason : Composition of a compound is the same

BRAIN INTERNATIONAL SCHOOL

Subject : Biology

Class: IX

Worksheet Jan'25

1. **Give one word answer to the following:**
 - a. Living matter of the cell.
 - b. Cell without membrane bound nucleus.
 - c. An organelle with cristae.
2. What is the difference between plasma membrane and cell wall? Give the functions of each one.
3. Grass looks green, papaya appears yellow. Which cell organelle is responsible for this?
4. Differentiate between animal and plant cell.
5. Why is mitochondria called 'power-house of cell'? Give three similarities and one difference between mitochondria and plastid.
 - a. Name the organic molecules which give fluidity and functional specificity to plasma membrane.
 - b. What happens when Rheo leaves are boiled in water first and then a drop of sugar syrup is put on it?
6. (a) You can very easily bend the stem of a plant without breaking it. Name the tissue in the plant which makes it possible. Where is it located? State any two characteristic features of the cells of this tissue.
(b) Draw a labelled diagram of the transverse section of this tissue.
7. How branches of a tree move and bend freely in high wind velocity?
8. Name and draw the living component of xylem.
9. Why are kharif crops more susceptible to infestation than the rabi crops ?
10. Mention three different ways in which crop plants can be attacked by insect pests ?
11. What is the significance of animal husbandry ?
12. Discuss the role of three biotic factors responsible for damaging food grains during storage.
13. What are macro nutrients and micro nutrients?

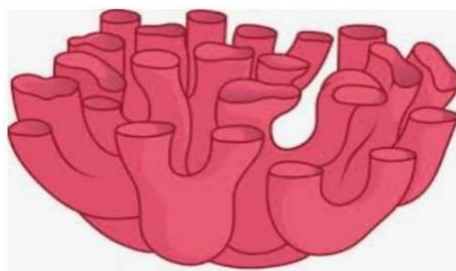
14. Read the given passage and answer the following questions based on the passage and related studied concept:

Each living cell has the capacity to perform certain basic functions that are characteristic of all living forms. We know that there is a division of labour in multicellular organisms such as human beings. This means that different parts of the human body perform different functions. Each such cell has got certain specific components within it known as cell organelles. Each kind of cell organelle performs a special function, such as making new material in the cell, clearing up the waste material from the cell and so on. A cell is able to live and perform all its functions because of these organelles. These organelles together constitute the basic unit called the cell.

(i) The cell organelle involved in forming complex sugars from simple sugars are:

- (a) Mitochondria (b) Endoplasmic reticulum (c) Golgi bodies (d) Vacuoles

(ii) Study the picture below that represents cell organelle "X"



Choose the correct combination of information regarding "X"

| | Structure | Function | Found in |
|---|-----------------|--------------------------------------|------------------------|
| a | Golgi apparatus | Sorts, modifies, packs and transport | Both animals & plants. |
| B | RER | Synthesizes Proteins | Both animals & plants. |
| C | SER | Synthesizes Lipids | Both animals & plants. |
| D | Mitochondria | Generates ATP | Both animals & plants. |

(iii) "X" lacks a non-membranous organelle, which are protein synthesizing particles:

- (a) Ribosome (b) Golgi apparatus (c) Chloroplast (d) Nucleus

(iv) Which cell organelle plays a crucial role in detoxifying many poisons and drugs in a cell?

- (a) Golgi apparatus (b) Lysosomes (c) SER (d) Vacuoles

15. In the given image animal cells are shown in different solutions. Observe and analyse what happened to the cell in 'C'



A

B

C

16. In Simple terms, tissue can be defined as a group of cells with similar shape and function are termed as tissues. They form a cellular organizational level, intermediate between the cells and organ system. Organs are then created by combining the functional groups of tissues. The study of tissue is known as histology and study of disease-related to tissue is known as histopathology. The standard tools for studying tissues is by embedding and sectioning using the paraffin block. Animal tissues are grouped into four types: Connective Tissue, Muscle Tissue, Nervous Tissue, Epithelial Tissue

The collection of tissues are joined in structural units to serve a standard function of organs. The primary purpose of these four types of tissue differs depending on the type of organism. For example, the origin of the cells comprising a particular tissue type also differs.

- (i) Intestine absorbs the digested food materials. What type of epithelial cells are responsible for that?
- (ii) Which tissue is called loose connective tissue?

(iii) Draw a neat labeled diagram of nervous tissue.

17. In India, as in many other agriculture-based countries, farming ranges from small to very large farms. Different farmers thus have more or less land, money and access to information and technologies. In short, it is the money or financial conditions that allow farmers to take up different farming practices and agricultural technologies. There is a correlation between higher inputs and yields. Thus, the farmer's purchasing capacity for inputs decides cropping system and production practices. Therefore, production practices can be at different levels. They include 'no cost' production, 'low cost' production and 'high cost' production practices.

- a. Name two fodder crops .
- b. What is GM crop ?
- c. What importance does food supply gives to living organisms ?

18. ASSERTION-REASON QUESTIONS:

Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below :

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.

(a) **Assertion:** Mitochondria are known as "power house" of the cell.

Reason: Mitochondria are used to bring about energy requiring activities of the cell.

(b) **Assertion :** Compound epithelium covers surface exposed to mechanical or chemical abrasions.

Reason: Protection of underlying tissues is the major function of simple epithelium.

(c) **Assertion :** Manure contains large quantity of organic matter and also supplies small quantities of nutrients to the soil .

Reason : Manure can be classified as compost, vermin compost or green manure

BRAIN INTERNATIONAL SCHOOL

S. Sc WORKSHEET

CLASS IX

January'2025

Q1. What was the 'Subsistence Crisis' which occurred frequently in France?

- (a) An extreme situation endangering the basic means of livelihood
- (b) Subsidy in food grains
- (c) Large-scale production of food grains
- (d) None of the above

Q2. 'While the National Assembly' was busy at Versailles drafting the Constitution, the rest of France seethed with turmoil. State the statement whether this is true or false.

Q3. "1905 revolution proved to be a dress rehearsal for the revolution that took place in 1917 in Russia." Give three arguments in support of the statement.

Q4. Explain how natural disasters can affect food security.

Q5. 'The Nazi regime used language and media with case, and often great affect.' Explain and justify.

Q6. "Politically, the Weimar Republic was fragile." Explain the statement.

Q7. Explain how natural disasters can affect food security.

Q8. Why do we need a standard meridian in India?

Q9. Which geographical feature bounds India's mainland south of 22°N latitude?

- (a) Young Fold Mountains
- (b) Sandy Desert
- (c) Lava Plateaus
- (d) Seas and Ocean

Q10. What are the consequences of unemployment for society and the economy?

Q11. 'Lakes are of great value to human beings.' Justify the statement with examples

Q12. What are the characteristics of the Peninsular Plateau?

Q13. Name the autobiography of Nelson Mandela.

- (a) The Long Walk to Freedom
- (b) South Africa Wins Freedom
- (c) Walk to Freedom
- (d) Our Freedom

Q14. Examine the need for reserved constituencies in India

Q15.



This cartoon was titled 'Building Democracy' and was first published in a Latin American publication. What do moneybags signify here? Could this cartoon be applied to India?

Q16. State how working with institutions is not an easy work.

Q17. What are the ill-effects of Green Revolution?

Q18. Discuss the main factors affecting the population change in India.

Q19. Why is there a need of food security in India?

Q20. Read the source and answer the questions that follow:

While determining the poverty line in India, a minimum level of food requirement, clothing, footwear, fuel and light, educational and medical requirement, etc., are determined for subsistence. These physical quantities are multiplied by their prices in rupees. The present formula for food requirement while estimating the poverty line is based on the desired calorie requirement. Food items, such as cereals, pulses, vegetable, milk, oil, sugar, etc., together provide these needed calories. The calorie needs vary depending on age, sex and the type of work that a person does. The accepted average calorie requirement in India is 2400 calories per person per day in rural areas and 2100 calories per person per day in urban areas. Since people living in rural areas engage themselves in more physical work, calorie requirements in rural areas are considered to be higher than in urban areas. The monetary expenditure per capita needed for buying these calorie requirements in terms of food grains, etc., is revised periodically taking into consideration the rise in prices. On the basis of these calculations, for the year 2011–12, the poverty line for a person was fixed at Rs 816 per month for rural areas and Rs 1000 for urban areas. Despite less calorie requirement, the higher amount for urban areas has been fixed because of high prices of many essential products in urban centres. In this way in the year 2011-12, a family of five members living in rural areas and earning less than about Rs 4,080 per month will be below the poverty line. A similar family in the urban areas would need a minimum of Rs 5,000 per month to meet their basic requirements. The poverty line is estimated periodically (normally every five years) by conducting sample surveys. These surveys are carried out by the National Sample Survey Organisation (NSSO).

(a) What is the present formula for food requirement while estimating the poverty line?

(b) Why does monetary expenditure per capita needed for buying calorie requirements change periodically?

(c) What is the full form of NSSO?

Q21. Assertion Reason:

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

i) **Assertion (A):** Kerala has a lower birth rate compared to other states in India.

Reason (R): Kerala has better health and education facilities.

ii) **Assertion (A):** Urban areas have a higher population density compared to rural areas.

Reason (R): Urban areas offer better employment opportunities and infrastructure.

प्रश्न 1 लता, राम , अस्मद युष्मद च किम् त्रिषु लिङ्गेषु उत्तर पुस्तिकायां लिखत व स्मरणं कुरुत ।

प्रश्न 2 पठ् धातु पंचेषु लकारेषु लिखत व स्मरणं कुरुत ।

प्रश्न 3 अधोलिखितम् गद्यांशं पठित्वा प्रश्नानाम् उत्तराणि लिखत ।

एकदा स्वमित्रस्य सहोदरस्य जन्मदिवसे सम्मिलितः भवितुं यदा गुणाकरः निकटस्थं प्रतिवेशिग्रामं रेलमार्गस्य समीपतः गच्छन् आसीत् तदा तेन एकत्र कश्चित् रेल-पट्टिकाः उत्पादिताः दृष्टाः । सह एव तस्मिन् समये दूरतः महत्या द्रुत गत्या आगच्छत् रेल-यानम् अपि स दृष्टवान्। प्रत्युत्पन्न-बुद्धिः गुणाकरः सद्यः स्वशरीरतः चोलकम् उत्तार्य तं ध्वजम् इव ऊर्ध्वं वायौ उत्तोल्य प्रदर्शयन् आगच्छद्-रेल-यान-उ -अभिमुखं अधावत् रेलयानं च अवरोद्धुं चालकं सङ्केतितवान् । चालकः तथैव अकार्षीत्। एवं रेलयानं क्षति-ग्रस्तं न अभवत् यात्रिणः च सुरक्षिताः अजायन्त ।

प्रश्नाःअ) एकपदेन उत्तरत -

- 1 स्वमित्रस्य सहोदरस्य जन्मदिवसे सम्मिलितः भवितुं गतः
- 2 गुणाकरेण काः उत्पादिताः दृष्टाः
- 3 के सुरक्षिताः अजायन्त
- 4 आ) पूर्णवाक्येन उत्तरत -
- 5 रेलयानं अवरोद्धुं गुणाकरः चालकं कथं सङ्केतितवान्
- 6 किं क्षतिग्रस्तं न अभवत्

7 प्रत्युत्पन्न-बुद्धिः कः आसीत् ।

इ) अस्य अनुच्छेदस्य समुचितं शीर्षकं लिखत ।

ई) भाषिक कार्यम्

1 अनुच्छेदे 'अधः' इति पदस्य किं विलोमपदं प्रयुक्तम्।

क) सद्यः 2 ख) उत्पाटिताः 3 ग) समीपतः 4 घ) सद्यः

2 'एवं रेलयानं क्षतिं ग्रस्तं न अभवत् । ' अत्र 'अभवत्' इति क्रियापदस्य कर्तृपदं किम् अस्ति ।

3 'यात्रिणः च सुरक्षिताः अजायन्त' इत्यत्र किं क्रियापदं प्रयुक्तम् ।

प्रश्न 4 भवतः नाम हितेशः अस्ति छात्रावासे च भवान् वसति। अजन्ता ऐलोरागुहासु शैक्षिक यात्रायै गन्तुम् इच्छति । धनप्रेषणार्थं पितरं प्रति लिखिते पत्रे मञ्जूषातः रिक्तस्थानानि उचितैः शब्दैः पूरयित्वा उत्तरपुस्तिकायां पुनः लिखत ।

रंगहरिः छात्रावासः

तिथि

2||

परमादरणीयाः 3||

सादरं प्रणमामि।

सविनयम् 4 यत् मम सङ्कलनात्मकं मूल्याङ्कनं प्रथमम्

परीक्षा समाप्ता। मम 5 शोभनानि अभवन्। अस्मिन् 6

.....। अहं गृहं न आगमिष्यामि यतः विद्यालयेन एकस्मिन्ः

प्रबन्धः कृतः । एषा यात्रा अजन्ता-ऐलोरा-गुहानां 7। आयोजिता

अस्ति। कृपया यात्राव्यथार्थं 8। रुप्यकाणि प्रेषयन्तु भवन्तः । शेषं

सर्वं कुशलम्। 9। अग्रजाय च सादरं प्रणामाः ।

भवदीय : 10।

हितेशः

मञ्जूषा

दर्शनाय निवेदयामि प्रियपुत्रः शैक्षिकयात्रायाः पञ्चशतम् कालिकातातः

शरदावकाशे जनन्यै उत्तरपत्राणि पितृमहाभागाः ।

प्रश्न 5 अधोलिखितवाक्येषु रेखाङ्कितपदानां सन्धिं-सन्धिविच्छेदं वा कृत्वा लिखत।

प्रश्न 1 हितोपदेशः नारायणपण्डितस्य कृतिरस्ति ।

- 2 जगदीशः सर्वत्र वसति ।
- 3 राम : विद्यालयम् गच्छति ।
- 4 देवेशः तीव्रं धावति ।
- 5 द्वौ + अपि पर्वतीयस्थलं गच्छतः ।

प्रश्न 6 | उचित शब्दरूपाणि चित्वा रिक्त स्थानानि पूरयत -

1। मम विद्यालयः अस्ति ।

क) एषः ख) एतानि ग) इमानि घ) एताः

2 सः जलम् आनयति।

क) नद्या ख) नद्याः ग) नद्यात् घ) नद्या

3। उभयतः मार्गम् अस्ति ।

क) विद्यालयः ख) विद्यालयम् ग) विद्यालयेन घ) विद्यालयात्

7 ओसवाल सी.बी.एस.ई. प्रतिदर्श प्रश्न पत्र संस्कृत कक्षा 10

उचितधातुरूपाणि चित्वा रिक्तस्थानानि पूरयत -

1 शिष्याः गुरुम्.....!

क) सेवते ख) सेवध्वे ग) सेवन्ते घ) सेवे

2 बालकः गृहे अस्वस्थां मातरम्

क) सेवे ख) सेवन्ते ग) सेवते घ) सेवेते

3 छात्रा : सदा एव.....ऽ

क) पठति ख) पठन्ति ग) पठतः घ) पठामि

4 केरल प्रदेशे अनेके जनाः शिक्षिताःऽ

क) अस्ति ख) असि ग) सन्ति घ) स्तः

प्रश्न 8 उचितविभक्ति प्रयोगाणि चित्वा रिक्तस्थानानि पूरयत -

1 वानरः सह गच्छति

क) कम् ख) केन ग) कस्य घ) कस्मात्

2 बालकः बिभेति ।

क) सिंहस्य ख) सिंहात् ग) सिंहेन घ) सिंहाय

3 रामः पठने..... अस्ति ।

क) कुशलः ख) नमः ग) प्रति घ) चतुः

4 दुर्जनेभ्यः अलम्।

क) रामः ख) रामेण ग) रामौ घ) रामाणाम्

प्रश्न 9 प्रदत्तविकल्पेभ्यः उचितम् उत्तरं चित्वा रिक्तस्थानानि पूरयत -

1 रमेश पुस्तकानि आगच्छति। (आ - दा + ल्यप्)

क) आदाय ख) आदत्य ग) आदित्य घ) आदायानि

2 राम : विद्यालयं गत्वा पठति

क) गच्छ + क्त्वा ख) गम् + क्त्वा ग) गम् + तुमुन् घ) गम् + शतृ

3 सः जलं पिबन् गच्छति ।

क) पा- शतृ ख) पी शतृ ग) पव् + शानच् घ) पा + अन्

प्रश्न 10 सर्वे पाठान् अभ्यासं कुरु ।

1. Which of the following is NOT classified as nonverbal communication?
 - a. Signs
 - b. Eye Contact
 - c. Body language
 - d. Gestures
2. The means by which the message is sent is called _____.
 - a. Channel
 - b. Receiver
 - c. Messenger
 - d. Sender
3. It refers to a state of psychological tension and discomfort originating from unforeseen, difficult, confusing and challenging situations.
 - a. Stress Management
 - b. Time Management
 - c. Personality Confidence
 - d. Self Management
4. Realistic belief and trust of an individual in one's own judgement, capabilities and worthiness is _____.
 - a. Self-Motivation
 - b. Over-Confidence
 - c. Self-Confidence
 - d. Team Player
5. _____ means an attempt to acquire a sensitive information such as username, password, etc.
 - a. Spamming
 - b. Pharming
 - c. Phishing
 - d. Hacking
6. Which of the following key move the Text cursor to the beginning of the line?
 - a. End
 - b. Home
 - c. Insert
 - d. Ctrl

7. Which of the following operation will create duplication of table?
- Deleting a table
 - Copying a table
 - Moving a table
 - Creating a table
8. Which tab is used to add Header in a document?
- Insert
 - Design
 - File
 - Layout
9. _____ bar is located at the top of the window and shows the name of Currently opened document.
- Menu bar
 - Title bar
 - Status bar
 - Navigation bar
10. _____ shortcut key is used for Undo.
- Ctrl+C
 - Ctrl+Y
 - Ctrl+X
 - Ctrl+Z
11. Which is NOT a type of alignment in Libre/Open office writer?
- Left
 - Justify
 - Middle
 - Center
12. _____ refers to the facts or raw material, which are processed to get the information.
- Information
 - Data
 - Input
 - Processed Data
13. The default orientation of the page is _____ in Word processor.
- Landscape
 - Print Layout
 - Portrait
 - Normal

14. A _____ is an arrangement of rows and columns.

- a. table
- b. cell
- c. range
- d. formatting

15. ITeS is also called _____ that cover the entire operations which exploit Information Technology for improving the efficiency of an organisation.

- a. web-enabled services
- b. webpage
- c. computer services
- d. business

16. Mr. Rajan wants to write x^2 . But when he writes this, it shows $x2$. Which option he should use to get 2 at its proper place?

- a. Superscript
- b. Strikethrough
- c. Subscript
- d. Change Case

17. How you can add a new slide between slide 2 and 3 in a presentation?

Ans: _____

18. Consider the following data:

| | A | B | C | D | E | F | G | H |
|----|-------|-------|---------|-------|---------|---|---|---|
| 1 | SI No | Name | English | Maths | Science | | | |
| 2 | 1 | Anita | 26 | 54 | 67 | | | |
| 3 | 2 | John | 43 | 65 | 78 | | | |
| 4 | 3 | Kerry | 87 | 56 | 78 | | | |
| 5 | 4 | Smith | 45 | 76 | 34 | | | |
| 6 | 5 | Risha | 56 | 34 | 98 | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

a) Write the formula to find the sum of all subjects of Kerry and Risha.

Ans: _____

b) Write the formula to find the average of marks of John.

Ans: _____

c) Write the formula to find total marks in science by all the students.

Ans: _____