DAV Model School

Sector 15-A, Chandigarh

Class-9th CBSE

DAV MODEL SCHOOL SECTOR 15A CHANDIGARH

9th Holiday homework

Mathematics

Student Name:_____ Roll. No._____

Topic: Polynomial and zeros of Polynomials.

Value of a polynomial:

1. Verify whether the indicated numbers are zeros of the polynomials corresponding to them in the following cases:

   (i) $f(x) = 3x + 1$, $x = -\dfrac{1}{3}$　　　(ii) $f(x) = x^2 - 1, x = 1, -1$

2. If $x = 0$ and $x = -1$ are the roots of the polynomial $f(x) = 2x^3 - 3x^2 + ax + b$, find the value of a and b

3. Find the zero of the polynomial:

   (i) $p(x) = x - 5$　　　　(ii) $q(x) = x + 4$　　　　(iii) $p(t) = 2t - 3$

4. Find the remainder: $f(x) = 3x^4 + 2x^3 - \dfrac{x^2}{3} - \dfrac{x}{9} + \dfrac{2}{27}, g(x) = x + \dfrac{2}{3}$

5. If the polynomials $2x^3 + ax^2 + 3x - 5$ and $x^3 + x^2 - 4x + a$ leave the same reminder when divided by x – 2, find the value of a.

6. Factories :

   (i) $12x^2 - 7x + 1$　　　　(ii) $2x^2 + 7x + 3$

7. Factories :

   (i) $x^3 - 2x^2 - x + 2$　　　　(ii) $x^3 - 3x^2 - 9x - 5$

8. Use suitable identities to find the following products :
   (i) $(x + 4)(x + 10)$　　(ii) $(x + 8)(x - 10)$

9. Factorise the following using appropriate identities :

   (i) $9x^2 + 6xy + y^2$　　(ii) $4y^2 - 4y + 1$　　　　(iii) $x^2 - \dfrac{y^2}{100}$

10. Evaluate the following products without multiplying directly

11. Expand each of the following , using suitable identifies :

    (i) $(x + 2y + 4z)^2$　　　　(ii) $(2x - y + z)^2$　　　　(iii) $\left[\dfrac{1}{4}a - \dfrac{1}{2}b + 1\right]^2$

12. Factorise:

(i) $4x^2 + 9y^2 + 16z^2 + 12xy - 24\ yz - 16\ xz$

(ii) $2x^2 + y^2 + 8z^2 - 2\ \sqrt{2}\ xy + 4\ \sqrt{2}\ yz - 8\ xz$

13. Write following cubes in expanded form :

(i) $(2x + 1\ )^3$ (ii) $(\ 2a - 3b\ )^3$ (iii) $\left[\dfrac{3}{2}x + 1\right]^3$ (iv) $\left[x - \dfrac{2}{3}y\right]^3$

14. If a property linker having two plots of same area equal to $\left(x^2 + 3\sqrt{2}x + 4\right)$ sq. units, but different dimensions want to donate most suitable plot for old age home. Which plot should be donate?

Which moral value is depicted by the property linker?   **[Competency based questions]**

15. If the perimeter of two plots are $(p^2 + q^2 + 2pq)$ units and $(p^2 + q^2)$ units. The property linker sells these plots. If the property linker suggests that first deal is better for the customer. Is this statement true? Which moral value is being depicted by the property linker?

                                                       [Competency based questions]

16. If a teacher divides a material of volume $8x^3 + 27y^3 + 36x^2y + 54xy^2$ cubic units among three students.

Is it possible to find the quantity of material? Can you name the shape of the figure teacher obtained?

Which value is depicted by the teacher?   **[Competency based questions]**

17. Prove that :

(i) $\sqrt{3 \times 5^{-3}} \div \sqrt[3]{3^{-1}}\sqrt{5} \times \sqrt[6]{3 \times 5^4} = \dfrac{3}{5}$ (ii) $9^{3/2} - 3 \times 5^0 - \left(\dfrac{1}{81}\right)^{-1/2} = 15$

(iii) $\left(\dfrac{1}{4}\right)^{-2} - 3 \times 8^{2/3} \times 4^0 + \left(\dfrac{9}{16}\right)^{-1/2} = \dfrac{16}{3}$ (iv) $\dfrac{2^{1/2} \times 3^{1/3} \times 4^{1/4}}{10^{-1/5} \times 5^{3/5}} \div \dfrac{3^{4/3} \times 5^{-7/5}}{4^{-3/5} \times 6} = 10$

(v) $\sqrt{\dfrac{1}{4}} + (0.01)^{-1/2} - (27)^{2/3} = \dfrac{3}{2}$ (vi) $\dfrac{2^n + 2^{n-1}}{2^{n+1} - 2^n} = \dfrac{3}{2}$

18. Determine a and b if $\dfrac{7 + \sqrt{5}}{7 - \sqrt{5}} - \dfrac{7 - \sqrt{5}}{7 + \sqrt{5}} = a + 7\sqrt{5}b$

19. Write three irrational numbers between $\sqrt{3}$ and $\sqrt{5}$.

20. Express each of the following decimals in the form $\dfrac{p}{q}$:

(i) $0.\overline{4}$ (ii) $0.\overline{37}$ (iii) $0.5\overline{4}$ (iv) $0.6\overline{21}$ (v) $125.\overline{3}$

21. You know that $\frac{1}{7} = 0.\overline{142857}$. Can you predict what the decimal expansions $\frac{2}{7}, \frac{3}{7}, \frac{4}{7}, \frac{5}{7}, \frac{6}{7}$ are, without actually doing the long division? If so how?

22. Express the following in the form p / q, where p and q are integers and q $\neq$ 0.

    (i) $0.\overline{6}$ (ii) $0.4\overline{7}$ (iii) $0.\overline{001}$

23. Express the following in the form of p/q.

    (i) $.\overline{3}$ (ii) $.\overline{37}$ (iii) $.\overline{54}$ (iv) $.0\overline{5}$

Case study question

Ritu and Meena grow vegetables in the rectangular garden in their backyard. They were standing in a garden on a sunny day. They noticed that the length of their shadow were of different lengths. Ritu measured Meena's shadow and found it was 1.7m (66 inches appx.) long. Then Meena measured Ritu's shadow and found it was 2.0m (78 inches appx.) long. The length of garden is ten times of Ritu's shadow and breadth is ten times of Meena's shadow.

Q1: Ritu is saying to Meena that she is taller than Meena. Is this statement is correct
Q2: if Ritu is 5 feet 4 inches tall, then how tall is Meena?
Q3: if Ritu and Meena standing on opposite corner of garden which of the following can be drawn from this information?
Tick'yes' or 'no' for each conclusion.

Conclusion	Can this be drawn?
Distance between them is a rational no	Yes/no
Distance between them is a irrational no	Yes/no
Area of garden is 17 times its breadth	Yes/no
Perimeter of garden is twice the sum of their heights	Yes/no

Case study question (Competency based questions)

A man is eating a cheese pizza and he is fond of it. During the first day he eats the half of the pizza On the second day, he eats the $1/3^{rd}$ of the remaining part of the pizza. The third day he eats $1/4^{th}$ of what is left and 4th hay he eats $1/5^{th}$ of what still remains. He continues eating pizza in the same process of fraction like on 5th day he eats $1/6^{th}$, on 6th day he eats $1/7^{th}$ of what remains and so on.

Q1: If pizza stale after 4th day then what fraction of original pizza is still available?

Q2: What fraction of pizza he would eat on 7th day if pizza is still fresh.

Q3: if his sister Ankita also joined him on 5th day and she eats pizza twice of what her brother had, then what fraction of pizza is left?

Q4: Based upon information given, what would be correct formula for fraction of pizza eaten on nth day?

Q5: After 'n' days what would be the fraction of pizza left?

Case study question (Competency based questions)

Read the source given below and answer the given questions:
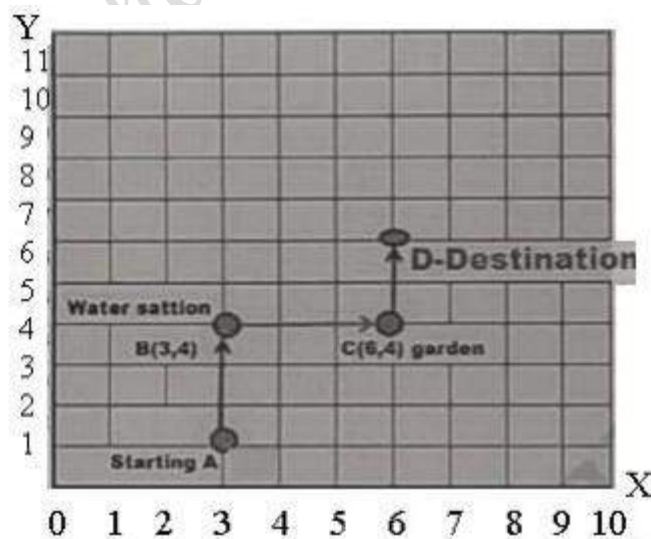
Aditya Kumar in an 8 miles walk. The organizers used a square coordinate grid to plot the course. The starting point is at A. At B (3,4) there's water station to make sure the walkers stay hydrated. From water station, the walkway turns right and at C (6,4) a garden is situated to keep walkers

fresh. From the garden, the walkway turns left and finally, Aditya Kumar reaches at destination D to complete 8 miles.

Q 1: How far is the water station B from the starting point A?

(a) 5 miles   (b) 4 miles   (c) 3 miles   (d) 1 miles

Q2: How far is the water station B from garden C?

(a) 3 miles   (b) 4 miles   (c) 5 miles   (d) 1 miles

Q3: What is the abscissa of destination point D?

(a) 4   (b)6   (c)5   (d)3

Q4: What is the ordinate of destination point A?

(a) 2   (b)3   (c) 1   (d) none of these

Q5: What is the co-ordinate of A?

(a) (1,3)   (b) (2,1)   (c) (3,2)   (d) (3,1)

Holiday Homework Class -9
Information Technology
Assignments

1. What do you understand by the term IT and ITeS?

2. What are the pros and cons of using ICT?

3. Give examples of use of IT in everyday life.

4. What are the various processes of education where IT is used?

5. Which software are used in digital communication?

6. Which are the prominent areas where IT is used in science and engineering?

7. List any 5 websites of the Indian government which provide IT enabled services to the people

8. Discuss the various types of keys available on a computer keyboard.

9. Differentiate between Home Keys and Guide Keys.

10. Explain the role of typing ergonomics.

11. What is the default extension assigned to the document in Writer when you save it? Write down the steps to save the document to Microsoft Word document?

12. What is the importance of password in the document? How will you protect the document using password in Writer?

13. What is mail merge? Write down the steps to create mailing labels to paste on wedding cards.

Practical file Questions: Digital Documentation

Open the Word Processing software and perform the following.
1. Prepare your page as follows.

Create a table as shown in the figure below. Save it in your folder.

Time Table Class 9								
Day/ Period	1	2	3	4		5	6	7	8
Time	7:30 to 8:10	8:10 to 8: 50	9:00 to 9:40	9:40 to 10:20	10:20 to 10:40	10:40 to 11:20	11:20 to 12:00	12:10 to 12:50	12:50 to 13:30
Day 1									
Day 2									
Day 3					LUNCH BREAK				
Day 4									
Day 5									
Day 6									

2.

Open the Word Processing software and perform the following.

1. Prepare your page as follows.

Size – A4	Orientation Landscape	Margins – 2' from left and right 1.5' from top and bottom

Use 'Page Setup' Dialogue Box. 2. Use Bold, Italic, Underline, Change Case, Font Color and Format the text as shown below and save it as Activity 3. Close the document.

REPORT
Field Visit to IT Job Fair

We visited the IT Job Fair, 2018 held at **Kasturchand Park, Nagpur** on 5th July. It was quite knowledgeable experience for us. We came to know about the various information in IT Sector.

The **Information Technology & Information Technology Enabled Services (IT-ITeS)** sector is a field which is undergoing rapid evolution and is changing the shape of Indian business standards. This sector includes software development, consultancies, software management, online services and **Business Process Outsourcing (BPO)**.

1. Type the letter shown in the figure given below. Do not type the words and symbols appearing in between <...>, as these are the fields. Keep single space. Save the document in your folder.

> **Computer Centre**
> **DMS School**
> **Bhopal**
>
> Date: 3 August 2018
>
> <Title>
> < Address Line1 >
> < Address Line2 >
>
> **Teacher Parent Interact Day**
> Please take this opportunity to discuss the progress of your child <Child Name> by meeting the class teacher on <date> at <Time> at the Classroom.

Principal

2. Use Mail Merge. For Data source/Address List, enter data of 10 people as shown in the table below.

Title	First Name	Last Name	Address 1	Address 2	Child Name	Date	Time
Mr.	Raman	Sinha	M P Nagar	Bhopal	Deepti	25-07-2018	9:00 am
Dr.	Manish	Mangal	Shyamla Hills	Bhopal	Shravya	25-07-2018	9:30 am
Mrs.	Manmeet	Kuar	Akriti City	Indore	Simran	26-07-2018	9:00 am

DAV MODEL SCHOOL SECTOR 15A CHANDIGARH

CLASS 9 - HOLIDAY HOMEWORK - ASSIGNMENT

BIOLOGY - FUNDAMENTAL UNIT OF LIFE - CHAPTER 5

1. How do substances like carbon dioxide and water move in and out from the cell?
2. How is a prokaryotic cell nucleus different from a eukaryotic cell nucleus?
3. Why do doctors advise gargles with salt solution during throat infections?
4. Name the cell organelles/ structures which are commonly called:

 (a) Kitchen of the cell (b) Power house of cell (c) Skeleton of the cell (d) Suicidal bags of the cell (e) Digestive bags of the cell (f) Heredity vehicles

 (g) Master molecule of the cell (h) Packaging and dispatching unit of cell (i) Storage bags of the cell

5. Name the cell organelles which contain DNA.
6. What happens :
   a. (a) If a plant cell is kept in a hypertonic solution.
   b. (b) Dry apricot first kept in water and then transfer to sugar solution/
   c. (c) RBC kept in water.
7. What happens to the nuclear membrane during division of the cell?
8. A person takes a concentrated solution of salt, after some time, he starts vomiting. What is the phenomenon responsible for such a situation?
9. Name any cell organelle which takes part in the formation of a spindle?
10. Why does the skin of your finger shrink when you wash clothes for a long time?
11. If you are provided with some vegetables to cook, you generally add salt during the cooking process. After adding salt, vegetables release water. What mechanism is responsible for it?
12. What is cell division? What is its significance?
13. What is a cell cycle?
14. What is Interphase? Explain the sub stages.
15. Why is mitosis called equational cell division?
16. What is Karyokinesis? Mention the stages in mitosis.
17. Why is cell division in plants said to be anastral?
18. What is a metaphasic plate?
19. In which phase of mitosis the centromeres of chromosomes split?
20. In which phase of mitosis nuclear membrane and nucleolus disappear?
21. In which phase of mitosis nuclear membrane and nucleolus reappear?
22. What is cytokinesis? How does it occur in animal and plant cells?
23. Write the significance of mitosis.
24. Why is meiosis called reductional cell division?
25. What is synapsis? When does it occur?
26. What is bivalent?
27. What is tetrad?
28. What is crossing over?
29. What is chiasmata?
30. What is terminalization?
31. How does anaphase I differ from anaphase II of meiosis?
32. What is Interkinesis? Explain.
33. How does Interphase differ from Interkinesis in meiosis?
34. Write the significance of meiosis.
35. What are the differences between mitosis and meiosis?

COMPETENCY BASED QUESTIONS

BIOLOGY - FUNDAMENTAL UNIT OF LIFE - CHAPTER 5

TOPIC - CELL DIVISION

Learning Outcome

- What are various types of cell divisions?
- How do the somatic cells divide?
- Why meiosis is known as reduction division
- Enlist the differences between mitosis & meiosis.
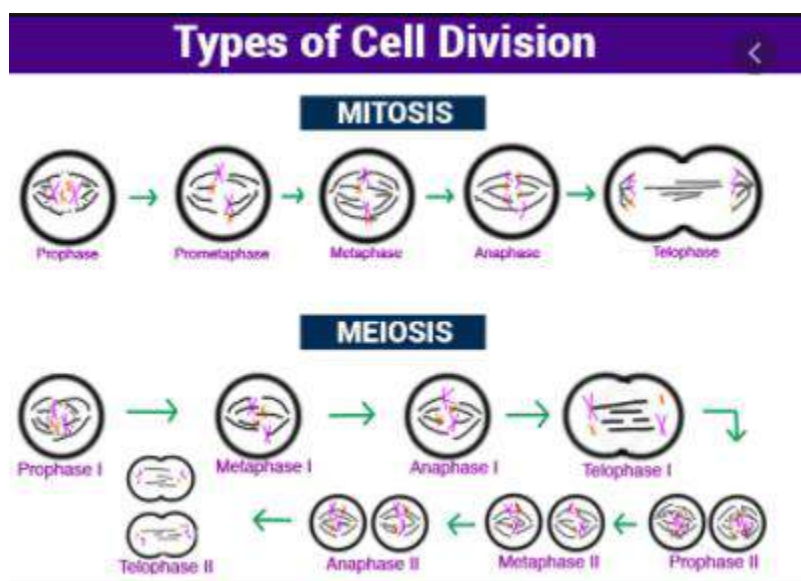
Source-NCERT

QUESTIONS

1. **During mitosis nucleolus begins to disappear at**
    a. Early metaphase
    b. Late metaphase
    c. Early prophase
    d. Late prophase

2. **Chromosomes are highly condensed at**
    a. Anaphase
    b. Metaphase
    c. Telophase
    d. Anaphase

3. **Spindle fibres develop from**
    a. Centriole
    b. Centrosome
    c. Chromatids
    d. Cytoplasm
4. **At which stage of meiosis chromosome no. gets reduced to half**
    a. Anaphase-1
    b. Metaphase -2
    c. Anaphase -2
    d. Telophase-1
5. **State whether the following statements are true or false**
    a. Cell division is a continuous process.
    b. Somatic cell division is a feature of germ cells.
    c. Crossing over occurs in meiosis.
    d. The other name of the nuclear division is cytokinesis.
    e. During the repair of wounds mitotic cell division occurs.
6. **Enlist the differences between Meiosis 1 and Meiosis 2**

TOPIC - LIFE SCIENCES

Learning Outcome

- Various cell organelles and their functions in plant cell and animal cell
- Difference between plant cell and animal cell
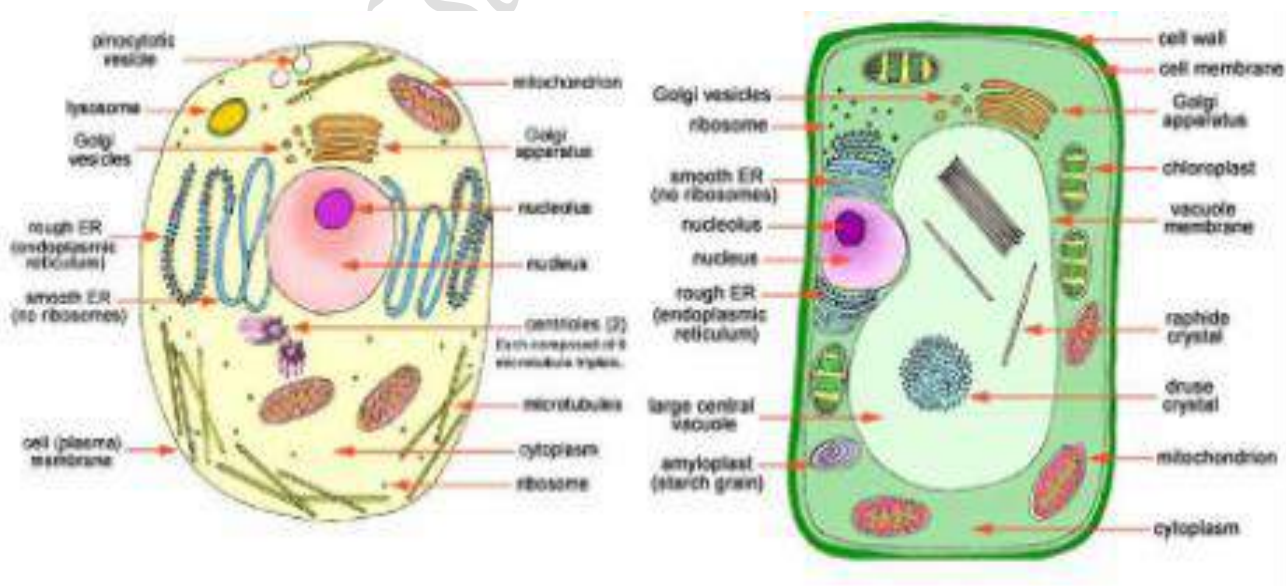
QUESTIONS

1. **Name the outer covering present in a cell which is semipermeable.**
   a. Cell membrane
   b. Cell wall
   c. Tonoplast
   d. Nuclear membrane

2. **Organelle responsible for photosynthesis**
   a. Lysosomes
   b. Mitochondria
   c. Chloroplast
   d. Vacuole

3. **Suicidal bags of cell is**
   a. Golgi body
   b. Lysosomes
   c. Nucleus
   d. Chloroplast

4. **Two organelle of the cell have their own DNA.**
   a. Mitochondria & Nucleus
   b. Chloroplast & Mitochondria
   c. Endoplasmic reticulum & Golgi complex
   d. Lysosomes & Chloroplast

5. **Do you agree/disagree with the following?**
   a. Animal cells have large vacuoles..
   b. Rough endoplasmic reticulum is present in both the cells.
   c. Stored food present in animal cells is starch.
   d. Nucleus is absent in the eukaryotic cell.
   e. Cell wall is absent in the animal cell.

6. **Enlist the differences between Plant cell and Animal cell?Any three.**

कक्षा-९वीं
गृह–कार्य (२०२१–२२)
एवरेस्ट: मेरी शिखर यात्रा
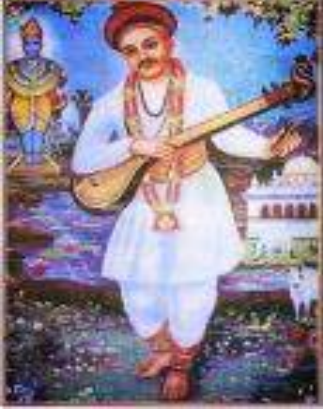
ऐसी लाल तुझ बिनु कउनु करे।

गरीब निवाजु गुसईआ मेरा माथै धरै।।

जाकी छोति जगत कठ लागै ता पर तुहीं ढरै।

नीचहु ऊच करै मेरा गोबिंदु काहू ते न डरै।।

नामदेव कबीरु तिलोचनु सधना सैनु तरै।

कहि रविदासु सुनहु रे संतहु हरिजीउ ते सभै सरै।।

प्रश्न १. उपर्युक्त काव्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए।

१) कवि तथा कविता का नाम लिखिए ।

२) गरीब निवाजु किसे कहा है?

३) रैदास ने अपने स्वामी को किन-किन नामों से पुकारा हैं?

४) रैदास ने अपने पद में कौन-कौन से संतों का नाम लिया हैं?

५) निम्न पंक्तियों के भाव स्पष्ट कीजिए ।

   ऐसी लाल तुझ बिनु कउनु करे।

   नीचहु ऊच करै मेरा गोबिंदु काहू ते न डरै।।

६) निम्न शब्दों के प्रचिलिट रूप लिखिए

   छत्रु, धरै, छोति, गुसईआ

७) निम्न शब्दों के विलोम शब्द लिखिए।

   गरीब, नीच

८) निम्न शब्द के पर्यायवाची शब्द लिखिए

   जगत

अंगदोरजो बिना ऑक्सीजन के ही चढ़ाई करनेवाला था। लेकिन इसके कारण उसके पैर ठंडे पड़ जाते थे इसलिए वह ऊंचाई पर लंबे समय तक खुले में और रात्रि में शिखर कैंप पर नहीं जाना चाहता था। इसलिए उसे या तो उसी दिन चोटी तक चढ़कर साउथ कोल पर वापस आ जाना था अथवा अपने प्रयास को छोड़ देना था।

वह तुरंत ही चढ़ाई शुरू करना चाहता था -- और उसने मुझसे पूछा. क्या मैं उसके साथ जाना चाहेंगी? एक ही दिन में साउथ कोल से चोटी तक जाना और वापस आना बहुत कठिन और श्रमसाध्य होगा! इसके अलावा यदि अंगदोरजी के पैर ठंडे पड़ गए तो उसके लौटकर आने का भी जोखिम था। मुझे फिर भी अंगदोरजी पर विश्वास था और साथ-साथ में आरोहण की क्षमता और कर्मठता के बारे में भी आश्वस्त थी। अन्य कोई भी व्यक्ति इस समय साथ चलने के लिए तैयार नहीं था।

प्रश्न२. उपर्युक्त गद्यांश को पढ़कर दिए गए प्रश्नों की उत्तर दीजिए ।

१) पाठ तथा उसकी लेखिका का नाम लिखिए।

२) अंगदोरजी के पाँव ठंडे क्यों पड़ जाते थे?

३) अंगदोरजी दिन में ही पर्वत शिखर पर जाकर वापस क्यों लौटना चाहता था? ४) पर्वत-शिखर की अंतिम यात्रा

   कहाँ से कहाँ तक की थी?

५) लेखिका को अंगदोरजी के साथ यात्रा करने में क्या खतरा था?

६) लेखिका ने अंगदोरजी के साथ पर्वत शिखर

   छने का फैसला क्यों लिया?

७) निम्न शब्द में से मूल शब्द व उपसर्ग अलग कीजिए ?

   आरोहण-

८) निम्न शब्द में से मूल शब्द व प्रत्यय अलग कीजिए ।

   कर्मठता-

९) निम्न शब्द के पर्यायवाची शब्द लिखिए

   पर्वत-

   शिखर-

प्रश्न३. रचनात्मक कार्य :-

१. सामाजिक कुरीतियों अथवा अंधविश्वासों पर स्लाइड्शो बनाएँ।

२. भारत के प्रसिद्ध पर्वतारोहियों पर पी॰पी॰टी॰ बनाएँ।

CLASS - 9 SPORTS HOLIDAY HOMEWORK

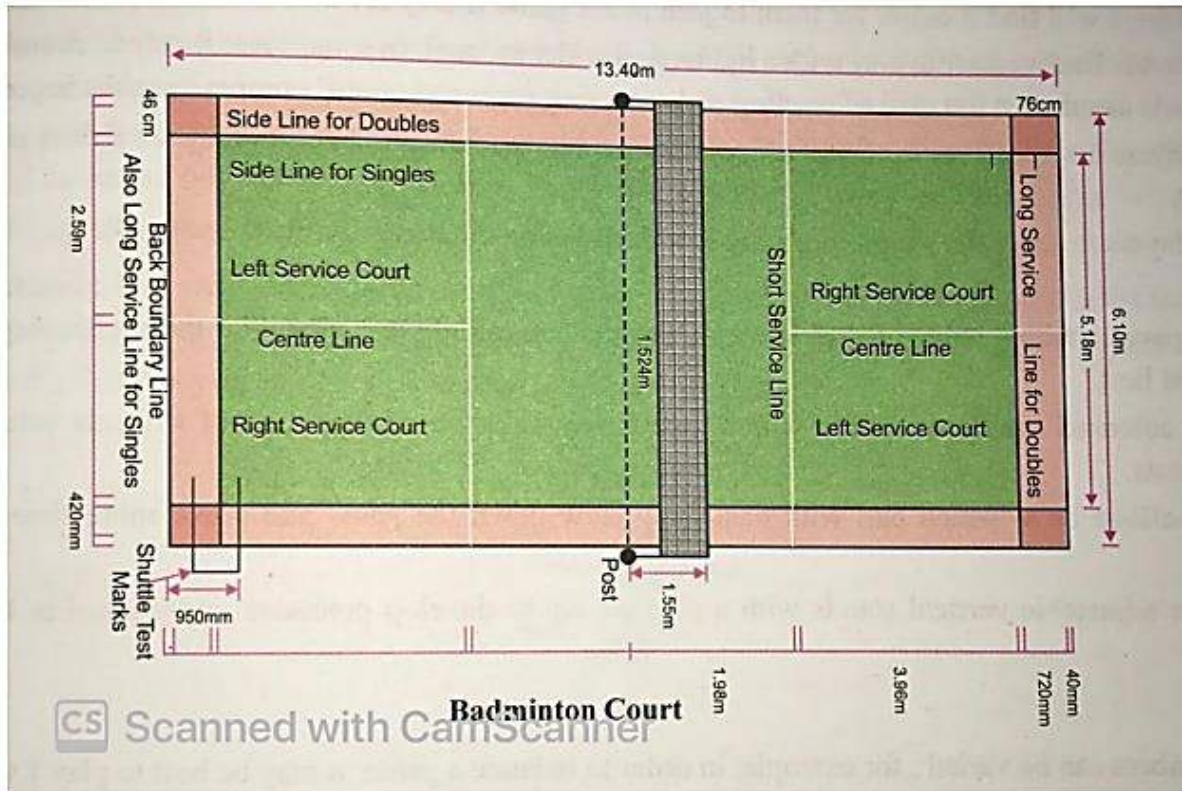Make a chart on BADMINTON game.

Make videos on :-

General Exercises

PT Exercises

Tadasana

Make a chart on BADMINTON game

Specify all the dimensions of the BADMINTON COURT.

Badminton Court

Holidays Homework class 9 Economics and Political Science

1. Create a digital collage or create a poster on the theme 'Democracy'.

2. make a project on "*Role of Government for Economic Development of India at the time of pandemic"*.

The project can be compiled in a scrapbook or a file folder or in a handmade file using pictures, newspaper cuttings, art integrated activities, etc.

In the end of the project give a write up on your learning and experiences for the same theme based on experiential learning.

Food Production

Homework for class IX

Internal assessment (50marks)

- Notes booklet with project work – 25 marks
- Recipe file-15 marks
- Art integration activity-10 marks
- Preparation of Menu card-5 marks

Holiday homework

- Make notes booklet with project file for chapter 1-3
- Make Recipe file with all the recipes
- Prepare Art integration activity of ch 1-3
- Make menu card
- Give a thorough reading of employability skills book

*Note – Sample of recipe file and menu card is posted in classroom

HOLIDAY   HOMEWORK
Subject : SOCIAL SCIENCE (Hist/Geo)

1. Create a Social science folder for posters and activities.

2. Make posters on A3/A4 Sheets on the following topics :

* The Political system of France under the Constitution of 1791.

* Poster of King Louis XVI along with his biography(100 Words).

                    OR

   Create a digital collage/Video of King Louis XVI representing his administration.

3. Create a PPT on the topic " The French Revolution".

HOLIDAYS HOMEWORK Physics

Practice Questions From Chapter 1 Motion

Q1.   We say that displacement can be +ve, -ve or 0. Give example for each case.

Q2.   A bus is moving in a crowded area. What type of motion does it possess?

Q3. A body is moving in such a way that in every 10 seconds it covers a distance of 15 m. What do you conclude from the statement?

Q4. There is a park 3 km away from my home. On a particular day, I went to the park with my brother. When we came back, my father asked one question each from both of us. My answer was 6 km but that of my brother was 0 km. what do you infer from the description?

Q5. What do you mean by the term motion?

Q6. Write any two points to distinguish between uniform and non-uniform velocity.

Q7. Does uniform motion mean the same as the uniform velocity? Explain.

Q8. A cyclist goes around a circular track once every 2 minutes. If the radius of the circular track is 105 metres, calculate his speed.(Given II = 22/7)

Q9. What name is given to the speed in specific direction?

Q10. Give one example of a situation in which a boy has a certain average speed but its average velocity is zero.

Q11. What do the following measure in a car? (a) Speedometer (b) Odometer.

Q12. When does the velocity and speed of a moving body become identical?

Q13. A car travels a distance of 300 km from Noida to Ambala towards North in 5 hours. Calculate (i) speed & (ii) velocity of car for this journey?

Q14. Acceleration is the rate of change of velocity. Draw a graph to show the motion of a body with uniform acceleration.

Q15. A car covers a distance from A to B at 40 km/h and while returning it travels at 50 km/h. calculate the average speed.

Q16. We know that acceleration is the rate of change of velocity. A car is moving with constant velocity. Show that the acceleration is zero.

Q17. Draw the graph to show non-uniform motion.

Q18. Look at the table:

Time	10:30 am	11:00 am	11:30 am	12:00 noon	12:30 pm
Distance from origin point (KM)	0	15	28	40	60

i) Is the car is moving with constant speed?

ii) What is the average speed?

iii) Which duration represents the maximum velocity?

Q19. Name the motion when distance travelled by an object decreases with time. Also show the distance time variation.

Q20. A driver changes the speed of car from 10m/s to 20m/s in 5 seconds. Find the acceleration of the car?

Q21. A stone is dropped freely from the top of a tower and it reaches the ground in 4 seconds. Calculate height of the tower, $(g = 10 \text{ m/s}^2)$

Q22. From the top of a tower 45 m high, two stones are released. One vertically downwards and the other with a horizontal velocity of 30 m/s. How long will each stone take to strike the ground and how far from the tower will each stone strike the ground? $(g = 10 \text{ m/s}^2)$

Q23. A body starts from rest and acquire a velocity of 10 m/s in 2 seconds. Find acceleration.
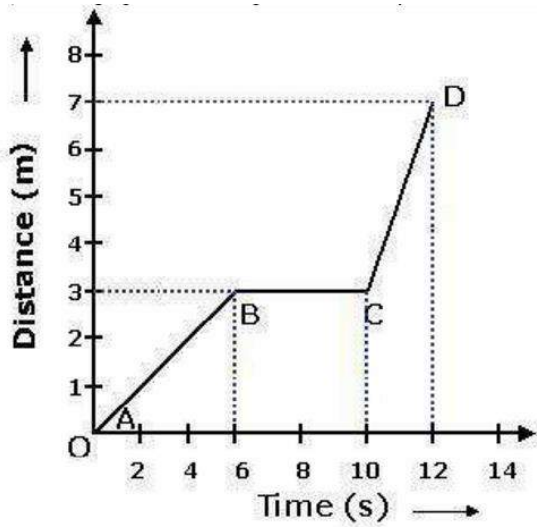
Q24. If initially the body is moving with some uniform velocity and then it accelerates, draw velocity-time graph for the motion.

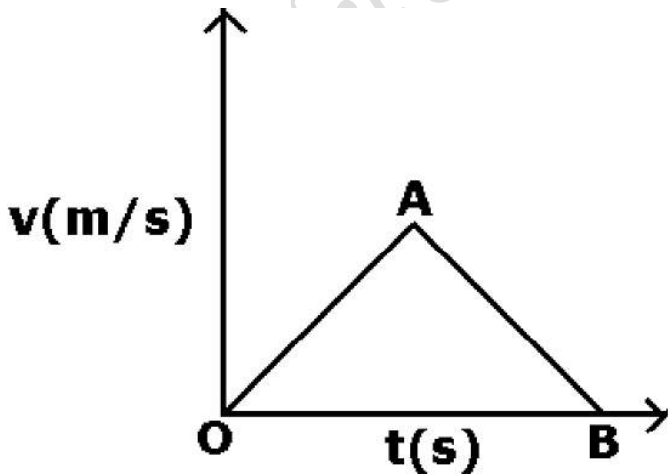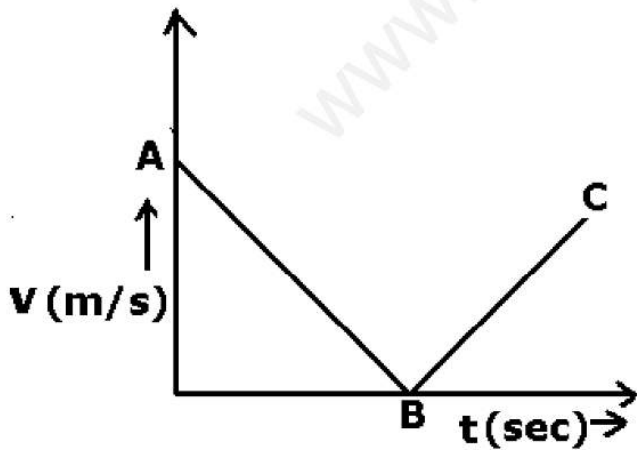Q25. When acceleration due to gravity is positive and negative?

COMPETENCY BASED QUESTIONS

Q1. The graph shows the position of body at different times. Calculate the

speed of the body as it moves from:
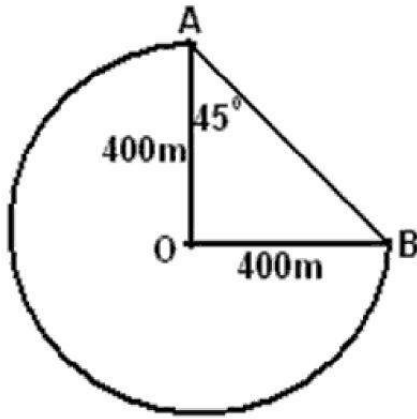
(i)   A to B

(ii)   B to C and

(iii)   C to D.

Q2. Give the interpretation of the graphs:

Q3. A cyclist travels 3/4 of a circular track from A to B as shown in figure. The radius of the

circular track is 400 m.

(i) What is the distance travelled by the cyclist?

(ii) What is the displacement?

Punjabi holiday homework

ਪੰਜਾਬੀ ਛੁੱਟੀਆਂ ਦਾ ਕੰਮ

ਜਮਾਤ-9

ਵੰਨਗੀ ਪੁਸਤਕ ਵਿੱਚੋਂ ...

1. ਬੱਸ ਕੰਡਕਟਰ (ਕਹਾਣੀ)

ਇਕਾਂਗੀ- 1. ਮੌਤ ਪਾਰੀ (ਈਸ਼ਵਰ ਚੰਦਰ ਨੰਦਾ)

2. ਸਿਰਜਣਾ (ਪਾਲੀ ਭੁਪਿੰਦਰ ਸਿੰਘ)

ਸਾਹਿਤ ਮਾਲਾ ਪੁਸਤਕ ਵਿੱਚੋਂ

-1. ਵਹਿਮੀ ਤਾਇਆ (ਸੂਬਾ ਸਿੰਘ)

2. ਮੁੜ ਵੇਖਿਆ ਪਿੰਡ(ਬਲਰਾਜ ਸਾਹਨੀ)

ਇਨ੍ਹਾਂ ਪਾਠਾਂ ਨੂੰ ਚੰਗੀ ਤਰਾ ਪੜ੍ਹੋ ਸਮਝੋ ਤੇ ਇਨ੍ਹਾਂ ਦੇ ਪ੍ਰਸਨ ਉੱਤਰ ਵੀ ਕਾਪੀਆਂ ਵਿੱਚ ਲਿਖੋ।

ਕੋਈ 5 ਬਿਨੈ ਪੱਤਰ ਤੇ 5 ਲੇਖ ਜੋ ਪਿਛਲੇ ਕੁਝ ਸਾਲਾਂ ਵਿੱਚ cbse 10 ਦੇ exam ਵਿੱਚ ਆਏ ਹੋਣ। ਇਹ ਤੁਸੀਂ ਨੈੱਟ ਤੋਂ ਚੈੱਕ ਕਰ ਸਕਦੇ ਹੋ।

*ਪੜ੍ਹਾਈ ਗਈ ਵਿਆਕਰਨ ਚੰਗੀ ਤਰਾ ਪੜ੍ਹੋ ਸਮਝੋ , ਯਾਦ ਕਰੋ ਤੇ practice ਕਰੋ।

1.ਆਪਣੀ ਪੰਜਾਬੀ ਪੁਸਤਕ ਵਿਚਲੇ ਲੇਖਕਾਂ ਤੇ ਕਵੀਆਂ ਬਾਰੇ ਇਕ ਵੱਖਰੀ Assignment ਬਣਾਓ।ਜਿਸ ਵਿੱਚ ਲੇਖਕਾਂ ਤੇ ਕਵੀਆਂ ਬਾਰੇ ਤੇ ਉਨ੍ਹਾਂ ਦੀਆਂ ਰਚਨਾਵਾਂ ਬਾਰੇ ਲਿਖਿਆ ਹੋਵੇ ।

2. ਪਾਣੀ ਦੀ ਮਹਤੱਤਾ ਬਾਰੇ ਲੇਖ ਲਿਖੋ, ਚਾਰਟ ਬਣਾਓ,3D Art, ਰਾਹੀਂ ਪਾਣੀ ਦੇ evaporation system ਨੂੰ ਪੰਜਾਬੀ ਵਿੱਚ ਪੇਸ ਕਰੋ। Underline ਕੀਤੇ ਗਏਆਂ ਵਿੱਚੋ ਕੋਈ ਇੱਕ ਹੀ ਕਰਨਾ ਹੈ।

ਜ਼ਰੂਰੀ ਗੱਲ

--- ਘਰ ਦਾ ਕੰਮ ਨਾ ਕਰਨ ਵਾਲੇ ਵਿਦਿਆਰਥੀ ਨੂੰ ਮੇਰੀ ਕਲਾਸ ਵਿੱਚ ਬੈਠਣ ਦਾ ਕੋਈ ਹੱਕ ਨਹੀਂ ਰਹੇਗਾ।

ਜਦੋਂ ਤੱਕ principal mam ਵੱਲੋ ਮਨਜੂਰੀ ਨਹੀਂ ਮਿਲੇਗੀ।