

# D.A.V. CENTENARY PUBLIC SCHOOL

## SECTOR-6, BAHADURGARH

### Session (2024-25) Class-IX



**“A vacation offers you the chance to revitalise and renew your mind and body. Vacations offer us a change of scenery, a thrill, and a means of escaping routine and fatigue.”**

**By James Russell  
Lowell**

***Dear Students,***

**Warm Wishes!**

**We pray and wish the best of health and cheerful times to you. Vacations is a time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these days. This summer vacation the holiday homework is designed for you all to achieve the motto of " Fun and Learn".**

**The activity based assignments will foster curiosity, develop creativity and instil the joy of learning among you all. So, make sure you extract the maximum benefit out of these holidays.**

## English

- BBC Work -
    - Unseen Passages (1 - 10 for practice)
    - Do Grammar worksheets (Tenses and Reported Speech)
  - Do complete Unit 1- 4 in Words and Expressions.
  - Prepare a working / non - working model on the topics given below:
    - (R.N.1 - 10) Tenses (Model) and Prepare a Chart - Pictures of different Musical instruments highlighting the Importance of Music (as it soothes the mind and makes one feel relieved) in the lives of people on the basis of Ch – Sound of Music.
    - (R. N. 11 - 20) Reported Speech (Model) and Prepare a Bio-sketch of Bismillah Khan / Evelyn Glenie highlighting the interesting facts of life and achievements in the form of Flow - chart. (A 3 Sheet)
    - (R. N. 21 - 30) Determiners (Model) and Prepare a comic strip in the form of story using Direct - Indirect Speech.
    - (R. N. 31 - 40) Interjections (Model) and Prepare Wall Hanging on - SDG's
    - (R. N. 41 - 50) Prepositions (Model) and Highlight the difference in Present school and schools in future on the basis of Ch - The Fun They Had on A3 Sheet.
    - Write and learn 25 antonyms and synonyms. (words may be taken from the text book chapters that are done till now) in Assignment notebook
  - Compare the culture of Haryana and Manipur: (On A 3 sheet)
    - \*Dress and Language (1 - 10) \* Dance, Art & Handicraft (11 - 20)
    - \*Food Habits and Crops (21 - 30) \* Climate and Tourism (31 - 40)
    - \*History of both the states (41 - 50)
  - Literature - (Work to be done in Assignment notebook)
    - Read Ch 1-4 (Beehive) and write 5 questions & answers per chapter.
    - Read Ch 1-4 (Moments) and write 5 questions & answers per chapter.
- \* Learning Work - Learn and revise the syllabus done till date.
- \* Note: All the work must be presentable and done in a neat, clean and systematic way as per the guidelines.

## Hindi

- प्रश्न 1. 'दो बैलों की कथा' और 'ल्हासा की ओर' पाठ में से 10 अतिरिक्त प्रश्नों (30 से 40 शब्दों में) का निर्माण कीजिए।
- प्रश्न 2. 'कबीर की साखियां', 'सबद' काव्य पढ़कर उसमें से 10 अतिरिक्त प्रश्नों (30- 40 शब्दों में) का निर्माण कीजिए।
- प्रश्न 3. कबीर दास जी के कोई पांच दोहे लिखिए। (सचित्र चार्ट बनाइए, अनुक्रमांक 1- 25 तक)
- प्रश्न 4. तिब्बत की भौगोलिक व सामाजिक स्थिति दिखाते हुए चार्ट बनाइए। (अनुक्रमांक 26-50 तक)
- प्रश्न 5. 'दो बैलों की कथा' कहानी से संबंधित मॉडल तैयार कीजिए। (अनुक्रमांक 1- 25 तक)
- प्रश्न 6. समास से संबंधित मॉडल तैयार कीजिए। (अनुक्रमांक 26 से 50 तक)
- प्रश्न 7. प्रत्यय और उपसर्ग से संबंधित (A 3 शीट) चार्ट तैयार कीजिए।
- प्रश्न 8. निम्नलिखित विषयों पर सूचना लिखिए -
- आपका नाम वंश गर्ग है, आप नौवों के छात्र हैं। आपकी घड़ी विद्यालय परिसर में गिर गई है। घड़ी लौटने के लिए निवेदन करते हुए सूचना लिखिए।
  - एस० एम० पब्लिक स्कूल, भोपाल में एक दिन के लिए 'रक्तदान शिविर' का आयोजन किया जा रहा है। स्कूल नोटिस बोर्ड के लिए सूचना बनाइए।
- प्रश्न 9. निम्नलिखित विषयों पर लगभग 120 शब्दों में अनुच्छेद लिखिए -
- पुस्तकें पढ़ने की आदत
  - हमारी प्रमुख राष्ट्रीय समस्याएं
  - इंटरनेट: एक संचार क्रांति

नोट:- अभी तक करवाए गए पाठ्यक्रम को याद कीजिए।

## Maths

1. The side of a triangular park are 8m, 10m, and 6m. A small circular area of diameter 2m is to be left out and the remaining area is to be used for growing roses. How much area is used for growing roses . ( Use  $\pi = 3.14$  )
2. The base of an isosceles triangle measure 24cm and its area is 60 cm<sup>2</sup>. Find its perimeter.
3. Find the cost of laying grass in a triangular field of sides 50m, 65m, and 65m, at rate of 7 per m<sup>2</sup>
4. The total number of legs in a herd of goat and hens is 40. Represent this situation in the form of a linear equation in two variables.
5. IF  $a = 5 + 2\sqrt{6}$  and  $b = 1/a$  , then What will be the value of  $a^2 + b^2 - 5ab$
6. Write the linear equation such that each point on its graph has an ordinate 3 times its abscissa. If the point (3, 4) lies on the graph of  $3y = ax + 7$  , then find the value of a.
7. Find graphically the coordinates of the vertices of a triangle, the equation of whose sides are  $y = x$  ;  $3y = x$  ;  $x + y = 8$ .
8. If the ordinate of the point which lies on the line  $3x + y = 10$  is 4 , what is the abscissa of the point?
9. An electric bill cost Rs y for x kilowatt hours used each month. The equation for each family the electric bill is  $y = 0.06x + 200$ . If a family's electric bill for 1 month was Rs 248, how many kilowatt the hours were used?
10. Rewrite each repeating decimal as quotient of integers.  $3.41\overline{21}$  .
11. If  $2x = 4y = 8z$  and  $1/2x + 1/4y + 1/4z = 4$  . find the value of x.
12. If  $16(2x + 2-x) = 257$ , then find the value of x.
13. If  $3x = 4y = 12z$  , then find the value of z .
14. Use your creativity and represent different pairs of angles when two parallel lines are interested by a transversal ,on an A -4 sheet.
15. Use your creativity and Obtain a special figure by plotting the points and their mirror image on a Cartesian plane .( Use graph paper)
16. Make a model of a modern house/ buliding using the concept of Area.

## Science

### Physics and Chemistry

\*Prepare a working model from any topic of science such as Solar irrigation, environmental Science, health and hygiene, transportation and communication, magnetic Levitation etc.

- Q.1 Explain why water is a compound and not a mixture. Give three reasons in supporting your answer.
- Q.2 Why do we observe Tyndall effect, when a beam of light enters a room?
- Q.3 What type of colloids are the following?  
Coloured gemstone, Sponge, Automobile, exhaust, Mud, Smoke
- Q.4 What is the tincture of iodine?
- Q.5 A cyclist moves from a certain point x and goes round a circle of radius r and reaches y exactly at the other side of the point x. What is the distance and displacement of the cyclist during the journey?
- Q.6 Drive the three equations of motion.

Q.7 Predict the motion of an object on the basis of given information :

- a) Change in the speed of the object is zero and its direction of motion is fixed.
- b) Change in the velocity of the object is zero during any time interval.
- c) Change in the speed of the object is not zero but its direction of motion is fixed.

Q.8 List 3 conditions where distance-time graph is employed to study motion.

Q.9 A driver runs a bus from home to school and school to home on the same route, one day while going to his speed was 35 km/h and while returning his speed was 20 km/h. Find his average speed and average velocity.

Q.10 which equation describe the velocity- time relation?

### **BIOLOGY**

1 Draw the well labelled diagrams of following

Plant cell, Animal cell, Bacterial cell, Nerve cell, Mitochondria, Nucleus

2 Write down the role of mitosis.

3 Explain the process of meiosis with diagrams in a creative way .

4 Give reason why meiosis is called a reduction of cell division .

5 Plasma membrane is a selectively permeable membrane. Elaborate.

6 Write down the Functions of following

a. Mitochondria   b. Vacuole   c. Lysosomes   d. Plastids   e. Endoplasmic reticulum

7 Revise syllabus till done

8 Bring one plant

Note : Do the given questions in the separate notebook:

9 .Prepare the working model of following according to the roll number assigned using eco friendly things

Nerve cell or mitochondria roll number 1 to 15

DNA model or Amoeba or endoplasmic reticulum roll number 16 to 30

Honeycomb or plastids roll number 31 to 40

Vacuole or golgi complex roll number 41 to rest students

### **Social Science**

1. Read any one daily newspaper . Find out one event of national importance and one event of international importance.

2. India has assumed the presidency of G20, a forum for international economic cooperation on 1st December will hold it till 30th November 2023. During this period of time a number of events will be conducted and hosted by India. Prepare posters/charts of all these important events and themes.

3. Read the following chapters done in class and prepare 20 MCQ from each chapter and write it down in notebook.

French Revolution ( ch-1 History)

India and its Neighbours ( Ch-1 Geography)

Why Democracy ( ch-1 political science)

Constitutional Design ( ch -2 political science)

4. Map work

On the outline political map of France locate the following points - Bordeaux, Nantes and Paris .

On the outline political map of the world locate the following countries - Germany, Austria-Hungary , Turkey ( Central powers) , Britain, France , Russia , USA ( Allied powers)

On outline political map of India locate the following places- All the neighbours of India , Anadaman and Nicobar.

5. Prepare a project file on any one natural disaster and one human induced disaster(HID).

The project should include the following:

- Minimum 8 pages
- Problems faced by victims
- Your opinion on how to control HID
- Clear, related and coloured pictures
- Helping guidelines Post disaster

6. Prepare model/Charts on following topics -

- A. Political System Model: Create a model of a government system, such as a democracy or dictatorship, and demonstrate how laws are made, enforced, and changed. You can use props like a mini parliament or voting booth to help students understand the functioning of a political system. (Roll.No-1 to 8)
- B. b)Historical Event Reconstruction: Recreate a historical event using a diorama or model to help students visualize and understand the event better. This can be an event from local history or a significant global event.(Roll no. 9 to 16)
- C. Environmental Impact Model: Build a model that illustrates the impact of human activities on the environment. You can show concepts like deforestation, pollution, and climate change using props like miniature trees, water bodies, and toy vehicles.( Roll no 17 to 24)
- D. Population Growth Simulation: Build a model that represents population growth and its effects on resources and the environment. You can use simple props like beads or seeds to represent people and show how factors like birth rate, death rate, and migration impact population growth ( Roll no 25 to 32)
- E. Global Trade Network: Create a model that demonstrates how goods and services are exchanged between countries in a global trade network. You can use toy ships, planes, and trucks to show the movement of goods and explain concepts like imports, exports, and trade deficits.( Roll no 33 to 40)
- F. Model of the solar system: Create a 3D model with planets and moons orbiting the sun, accurately representing their sizes and movements.( Roll no 40 to 48).

7. Prepare wordwall on Topics

- a.)Hierarchy Of judicial system (Roll 1 to 8)
- b)Factors of Production (8 to 16)
- c) Sectors of economy ( 17 to 24)
- d) Preamble of Indian constitution ( 25 to 32)
- e) Duration of Day and night varies with latitude change ( 32 to 40)
- f) Electoral system of india ( 40 to 48)

## Information Technology

1. Complete the notes of Unit 3: Digital documentation in fair notebook

2. Write all the shortcut keys used in open office.org writer.

3. Write differences between:

- a) Copying and moving data
- b) Page margin and paragraph indentation

4. Project work:(as per roll numbers)\*(No charts to be made..)

Roll no. 1-10 : Cutout on cardboard of any 1 UPI payment app

Roll no. 11-20 :Show evolution of different microprocessors used in last 20 years

Roll no. 21-30: Make a working model showing any 1 application of ARTIFICIAL INTELLIGENCE

Roll no.31- 40: Make a working model showing the use of storage devices in IT

Roll no. 41-last: Make a working model showing working of flowchart..

