

D.A.V. CENTENARY PUBLIC SCHOOL
SECTOR-6, BAHADURGARH
Session (2024-25) Class-X



“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

Q1) Literature:

*Read Ch 1-4 (First Flight) and Write 5 question answers per chapter.

*Read Ch 1-4 (Footprints without feet) and Write 10 question answers per chapter.

(This work must be done in the assignment notebook)

*Write and learn 30 Antonyms & Synonyms (words may be taken from the textbook chapters). (In assignment notebook)

Learning: Learn and revise the syllabus done till date.

Q2) Writing: Letter writing

a) You are Kavita Khanna, a resident of 50-C, Pushp Vihar, New Delhi. Write a letter to the editor of 'India Today', magazine about the article on 'Ban Poly Bags' published in the latest edition.

b) Everyday you are late to school by fifteen minutes. Your school bus is stuck in a traffic jam near Chintpumi Temple crossing. Along with own ideas, write a letter to the editor of a newspaper highlighting this problem and suggesting some remedy for it.

c) You are Mrs. / Mr. Gupta. Your son is a student of Class XII and wants to pursue a course in Mass Communication. Write a letter in 120-150 words to the Dean, Institute of Mass Communication, University of Delhi, seeking information about the course admission procedure, eligibility criteria, fee structure, hostel facilities, placement opportunities, etc

(Do the letters in assignment notebook)

Q3) BBC Practice: Reading:

*Practice unseen passage 1-10 in BBC compacta.

*Practice editing (error correction) exercises in grammar module.

Words & Expression:

* Practice unit 1-4 in Words & Expression book.

Q4) Creative/Project work)

Prepare a working/non-working attractive model (using cardboard, thermocol, paper sheets, other material)

*A Letter to God. (R.no. 1-5)

*Dust of Snow. (R.no. 6-10)

*A Triumph of surgery (11-15)

*Wall hanging (Determiners) (16-20)

*Wall hanging (Modals) (21-25)

* Wall hanging (Moral values) (26-30)

*Modal (Prepositions) (31-36)

*Modal (culture & traditions; any state) (37.....last roll no.)

(Note: all the work must be presentable and done in a neat, clean and arranged way as per the guidelines)

HINDI

प्रश्न 1. ' नेताजी का चश्मा' और ' बालगोबिन भगत' पाठ में से 10 अतिरिक्त प्रश्नों (30- 40 शब्दों में) का निर्माण कीजिए।

प्रश्न 2. 'सूरदास के पद' और ' राम लक्ष्मण परशुराम संवाद ' काव्य पढ़कर उसमें से 10 अतिरिक्त प्रश्नों (30- 40 शब्दों में) का निर्माण कीजिए।

प्रश्न 3. सरकंडे या किसी भी लकड़ी का प्रयोग कर चश्मा बनाए या किसी भी क्रांतिकारी नेता का मॉडल बनाइए जिसे आप अपना आदर्श मानते हैं। (अनुक्रमांक 1 से 24 तक)

प्रश्न 4. ' बालगोबिन भगत' पाठ के अनुसार कोई भी पांच वाद्य यंत्रों का (A 3 शीट) चार्ट बनाइए। (अनुक्रमांक 25 से 48 तक)

प्रश्न 5. अलंकार (शब्दालंकार/ अर्थालंकार) का मॉडल तैयार कीजिए। (अनुक्रमांक 1 से 24 तक)

प्रश्न 6. पद - परिचय से संबंधित चार्ट (A3 शीट) तैयार कीजिए। (अनुक्रमांक 25 से 48 तक)

प्रश्न 7. निम्नलिखित विषयों पर लगभग 120 शब्दों में अनुच्छेद लिखिए।

1) आधुनिक नारी की दोहरी भूमिका 2) सोशल मीडिया: बेतार का संजाल

3) शिक्षा का व्यवसायीकरण

प्रश्न 8. निम्नलिखित विषयों पर पत्र लिखिए -

- i) आप अपने विद्यालय की क्रिकेट टीम के कप्तान हैं और मॉडर्न स्कूल, वसंत विहार की टीम के साथ एक मैच खेलना चाहते हैं। अपने विद्यालय के प्रधानाचार्य से अनुमति मांगते हुए एक पत्र लिखिए।
- ii) आपके बड़े भाई को चिकित्सा महाविद्यालय में प्रवेश प्राप्त हो गया है। इस सफलता के लिए बधाई पत्र लिखिए।
- iii) रेल यात्रा में सामान चोरी हो जाने पर रेलवे पुलिस अधीक्षक को पत्र लिखिए।
- प्रश्न 9 पोर्टफोलियो तैयार कीजिए।
- नोट:- अभी तक करवाए गए पाठ्यक्रम को याद कीजिए।

MATHS

Solve the following system of equations (Q. No .1 to 4)

1. $23x - 29y = 98$, $29x - 23y = 110$
2. $3(2x+y) = 7xy$, $3(x + 3y) = 11xy$
3. $\frac{x}{2} + \frac{1}{y} = 5$, $\frac{x}{4} - \frac{2}{y} = -5$
4. $\frac{x}{a} + \frac{y}{b} = a+b$, $\frac{x}{a^2} + \frac{y}{b^2} = 2$
5. Find the value of Sin A and Tan A in a Δ POT , if TO = TP =13 cm and OP = 10 cm , if \angle TOP= A.
6. If Cosec A + Cot A = p and Cosec A - Cot A =q , then find the value of (p x q).
7. If Tan A = 1 and Sin A = $\frac{1}{\sqrt{2}}$, then find the value of Cos (A+B) , Cosec (A+B).
8. If Sin A + Cos A = $\sqrt{2}$ Cos A . Find Cot A + Tan A.
9. If Tan A + Cot A = 2 , find the value of $Tan^2 A + Cot^2 A$.
10. Roots of the polynomial $x^2 + 25x + 156$ will be ---- (both positive , both negative , One positive & one negative) .
11. If roots of the polynomial $ax^2 + bx + c$ are equal , then a and c both will have ---sign (same , opposite)
12. If one zero of the polynomial $(k+1)x^2 - 5x + 5$ is multiplicative inverse of the other , then find the zeros for $kx^2 - 3kx + 9$.
13. Find the distance covered by a minute hand and an hour hand of a clock in 1 day ,if the length of the minute hand is 10 cm and length of the hour hand is 7 cm .
14. Learn all trigonometric identities and values of t-ratios, formulae for areas related to the circle.
15. Use your creativity and on an A- 4 sheet represent different parts of a circle .
16. On an A-4 sheet make a list of awards which are given in the field of Mathematics. (Highest to lowest)
17. Make a model of a park using MATHEMATICAL concepts of 3-d shapes and trigonometry .
Or Make a model for the use of trigonometry in daily life .
Or Make a working model for rainwater harvesting . (use volume concept)

SCIENCE

Physics and Chemistry

- Make working models out of the following topics:
 - I. Robotics and Automation
 - II. Space Exploration
 - III. Electric and Magnetism
 - IV. Medical Imaging Technology
 - V. Renewable Energy Technology
- Practice all the ray diagrams of lens and mirrors.
- Practice 20 numericals based on mirror and lens formula.
- Research and Report: Choose a natural phenomenon involving reflection or refraction of light (e.g., rainbow formation, mirages) and create a detailed report including its scientific

explanation, real-life applications, and any interesting facts.

• Do NCERT Exemplar questions of Ch1. Chemical Reactions and Equations, Ch9. Light: Reflection and Refraction.

• <https://cbseacademic.nic.in/index.html#> follow this link and solve questions of Ch1 and Ch9 from sample papers and previous year question papers.(last 5 years)

• Revise the whole syllabus completed till date.

Note: Students are also free to choose their own topics for working models but it should be discussed before.

BIOLOGY

1. Makeup The mind map of the chapter life process on A3 sheets.
2. Draw the well-labelled diagrams of the following
 - a) The Digestive system of humans
 - b)The Excretory system of humans
 - c) The Respiratory system of humans
 - d)Nutrition in amoeba
3. Explain the process of nutrition in human.
4. Write down the mechanism of breathing in man.
5. Fishes are aquatic organisms. How are they able to take oxygen from water? Explain .
6. Explain double circulation and write down its significance.
7. Write down the role of carbon dioxide and chlorophyll in photosynthesis.
8. Where are stomata located in the leaf list two functions of stomata.
9. Prepare the working model of the following topic according to the roll number assigned.
 - a)Human heart or renal dialysis roll number 1 to 10
 - b)Human brain or breathing system roll number 11 to 20
 - c)Nerve cell or transportation of food and water in plants roll number 21 to 30
 - d)Excretory system or human eye model roll number 31 to 40
 - e)Digestive system or human ear model roll number 41 to rest of the students.
11. Draw a well-labelled diagram of the experiment of setup o for the study of the liberation of carbon dioxide gas during respiration
12. Revise the whole syllabus till done .
13. Bring one medicinal plant and write down the medicinal applications of that plant on chart paper.

SOCIAL SCIENCE

1. Make a project on any one of the following
 - (a) Sustainable Development
 - (b) consumer awareness
 - (c) Social Issues(Do this in a project file,15-16 pages on A4 sheets.)
2. Make and write ten questions and answers of one mark (one word or one sentence) of each lesson completed in the holiday homework notebook.
3. Learn and revise all the completed chapters and also complete your CW and HW copy.
4. Make mind maps on completed chapters in the holiday homework notebook.
5. Do map practice of Geography in the holiday homework notebook.
6. Make charts and 3D/working models on the given topic:
 - A) a) (Roll no. 1 to 10) - a) Make a beautiful chart showing different forms of power sharing
b) Make a 3D model showing the judicial system of India.
c) On an A3 size of sheet make a poster on consumer rights and their awareness.
 - B) a) (Roll no. 11 to 20) - a) Make a 3D chart using rice/pulses/clay on a physical map of India showing types of soil found in different regions.
b) Make a working model of either Dam or rainwater harvesting
c) On an A3 size of sheet make a poster on the urgent need for sustainability of life.
 - C) a)(Roll no. 21 to 30) - a) Make a chart to show the changing trend in the preference of markets (from nearby shops to E- -shopping)

- b) Make a 3D model representing different causes of water pollution in India.
- c) On and A3 size of sheet make poster on the social evils prevailing in the society
- D) a) (Roll no. 31 to 40) - a) Make a chart representing causes of soil erosion.
- b) mega 3D model showing measures to control soil erosion.
- c) on and A3 size of sheet make a poster on the need to develop awareness towards the endangered species.
- E) a) (Roll no. 41 to 50) - a) select any four people from your surrounding and write their five development goals according to their social and economic conditions on a chart
- b) Make a 3D model representing the change in the developmental trends in our surroundings since ancient time to the present date.
- c) on an easy size of sheet make a poster on the social equality and justice.

INFORMATION TECHNOLOGY

- Write all the Questions/Answers in a separate new notebook
- Q1. Stress is identified as a condition in which a person is
A) tensed B) worried C) relaxed D) both (A) and (B)
- Q2. What plays a major role in reaction to stress
A) Emotions B) Personality C) Confidence D) None of these
- Q3. The feeling of self-awareness enhances our.....
A) Self-confidence B) Self-monitoring C) Self-Regulation D) All of the above
- Q4. What is 'M' in the 'SMART' goal setting method
A) Must B) Meaning C) Measurable D) None of these
- Q5. What is 'S' in the 'SMART' method of goal setting?
A) Smart B) Special C) Speed D) Specific
- Q6. Self-Reliance means _____
A) Ability to Work Independently B) Complete the task effectively
C) Both of the above D) None of the above
- Q7. Impact of stress depends on _____.
A) Age and health B) Profession C) Living conditions D) All of these
- Q8. helps to manage stress?
A) Recreational activities like watching movies etc
B) Going On Vacations with Family and Friends
C) Taking Nature Walks D) All of the above
- Q9. Term 1 exam is approaching. Rahul is feeling unprepared. This situation causes
A) confidence B) stress C) positiveness D) strong beliefs
- Q10. Which of the following makes a person complete work or studies without others cheering him?
A) Self-confidence B) Communication C) Self-motivation D) Self-Esteem
- Q11. Staying with the current situation with new updated information and preparing yourself for new challenges is called _____.
A) Responsibility B) Adaptability C) Time management D) Self-awareness
- Q12. He likes, dislikes, beliefs, values and background considered as
A) knowing oneself B) knowing others C) knowing the peers D) knowing relative
- Q 13. In SMART goals, what does 'S' stand for? Explain.
- Q 14. What is Goal Setting?
- Q 15. What is time management and how can you manage your time?
- Q16. How can tracking your time help you?
- Q 17. List any 5 stress management techniques and elaborate on why you find it the most effective

for you.

Q18. What are Styles ? What are the advantages of using styles?

Q 19. Explain any four Graphic filters.

Q 20. What is the difference between styles and templates?

Q 21. Explain Mail Merge. Write 3 advantages of Mail Merge?

Q 22. What do you understand by the terms: a. Text Wrapping b. Anchoring

Project Work: Make Chart/Model(working or non working)

X-A(1-20) Stress Management Quiz Board with Red And Green LED'S .(Working Model)

X-A (21-41) Importance of Time management (Chart)

X-B (1-20) Verbal/Nonverbal Communication skills (Working model)

X-B (21-42) Visual/ Written communication Skills (model/ chart)

X-C (1-20) Importance of feedback (Working model)

X-C(21-40) Templates in writer (Creative chart)

X-D (1-20) Table of Content(need and benefits) (Innovative Chart)

X-D (21-42) Types of Styles in writer (Innovative Chart)