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

"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

1) Write main information of the authors/ poets along with their pictures on A.3 size sheet. Use your creativity to make it beautiful Khushwant Singh (R.N.1 - 10)

Shirley Toulson   (R. N. 11 - 20)   William Saroyan   (R. N. 21 - 30)

Walt Whitman   (R. N. 31 - 40)   Marga Minco   (R. N. 40 - last)

2) Write and learn 25 antonyms, synonyms and one word substitutions each. (words may be taken from the text book chapters that are done till now).

3) prepare a working model / non-working model collecting the ideas from anyone of the chapters/ poems done in the class till now.

4) Prepare a speech on the given topic:

 Internet in Student's Llife.   (R.N.1 - 10)

Rolle of Youth in National Development   (R. N. 11 - 20)

Importance of Physically Health.   (21 - 30)

Social Media- Boon or. Curse(.   (R. N. 30 - last)

5) Activity:(to be done on A.3 sheet) - With pictures and examples

a) Poetic Devices -

 Alliteration.   (1 - 10)   Oxymoron   (11 - 20)

Transferred Epithet.   (21 - 30)   Synecdoche   (31- last)

6) Poster Making -

 'Save Water Save Life'   (R.N.1-10)   Trees- Lungs of the World.   (11-20)

Importance of yoga and Exercise (21-30)   Communal Harmony   (31-last)

7) Write recapitulating points of all the chapters done in literature. (in the form of Mind - map / Flow chart)

8) Draft Advertisements on the given topics: (A 4 sheet)

  a) You are General Manager of Arena Export Company, Mumbai. You want to appoint a Personal Assistant for the company.

b) You are the Principal of ABC School, Pune. You require Cricket and hockey coaches for your school. Mention - regarding the age, experience, qualification etc.

9) Twist in the Tale - (Any one of your choice)

Maths

SOLVE THE FOLLOWING PROBLEMS IN A SEPARATE NOTEBOOK:

1. The perimeter of a certain sector of a circle is equal to the length of the arc of a semi-circle having the same radius. Find the angle of the sector in degrees.

2. Prove that :

   $3 [\sin^4 (\frac{3\pi}{2} - \alpha) + \sin^4 (3\pi + \alpha)] - 2 [\sin^6 (\frac{\pi}{2} + \alpha) + \sin^6 (5\pi - \alpha)] = 1.$

3. Show that :

   (i) $\cos 10^0 + \cos 110^0 + \cos 130^0 = 0$

   (ii) $\cos 20^0 \cos 40^0 \cos 80^0 = 1/8$

   (iii) $\sin 10^0 \sin 50^0 \sin 60^0 \sin 70^0 = \frac{\sqrt{3}}{16}$

4. Prove that : $\sqrt{2 + \sqrt{2 + 2\cos 4x}} = 2 \cos x$.

5. Prove that : $\sin^3 x + \sin^3 (\frac{2\pi}{3} + x) + \sin^3 (\frac{4\pi}{3} + x) = -\frac{3}{4} \sin 3x$

6. Evaluate : $\sum_{n=1}^{13} (i^n + i^{n+1})$, where n $\in$ N.

7. If z = 1 + 2i, then find the value of $z^3 + 7z^2 - z + 16$.
8. Find the real value of x :
   $$\frac{(1+i)x-2i}{3+i} + \frac{(2-3i)y+i}{3-i} = i$$
9. Prepare any one of the following :
   (i)   An innovative and interesting maths game   ii Maths puzzle   iii Maths model

Political Science

Q1) DO Following questions in Holidays Homework notebook:-
·   How Indian President is elected? Explain the entire process.·
How Indian Prime minister is elected? Explain with example…
· Make a Chart   Compare the key features (Head of State, Form of Govt, Religious affiliation, Rights,Judiciary)etc…of Constitutions of Following Countries: India, Bangladesh, France,America, China   Roll no 20-35 onwards ·   Make a Chart :- on Your Favorite Political Leader, why is he/she an inspiration for you. Rollno (10-20)   Make a Chart :- On sources of Indian Constitution (Roll No 1-0)
·   What changes you want to bring in Indian Political System

Q2) Make a Model on: Elections -EVM (How we Vote) Since 1 election to Present General Election
Make a Chart / Model on Indian Judicial System   … Hierarchy
Q3) Collect 15 Cartoons related to NATIONAL or International from the Newspaper. Explain in brief the issue Highlighted. Make a collage of the same on thermocol.
Q4)Collect 15 National /International headlines NEWS and make Explain in brief the issue Highlighted .Make a Collage of the same on Thermocol.
Note:- Learn all the Syllabus done till date in classroom

Geography

Complete your fair notebook.
Learn all the chapters completed till summer vacation.
Do these questions in your geography assignment notebook.
Word limit 120 to 150 words.
1. Describe Big Bang theory with suitable example.
2. Evolution of Atmosphere and Hydrosphere.
3. What is Volcanic eruption? Describe it's different types.
4. Describe Wenger's theory with appropriate evidence.
5. Who gave Plate tectonics theory? Describe it with it's different characteristics
6. Describe Physiography of India.
7. Describe Peninsular plateau with it's different division.
8. Indian States, Union territories and their capitals (Fill on India's Political map).
Prepare one project file (Topic - India states and union territories)
Write 10 amazing facts for each state and UT's and paste related pictures.
Make a chat and one model on the following topics
1. From Ch 1 to 4 any topic
   (Fundamentals of physical geography) roll no 1-15
2. From Ch -1 and 2 (India physical environment) roll no 16 to 34

History

1. Make a project report on ch-5 Nomadic Empire.

Note- Project should be handwritten covering at least 20 to 25 pages.
2. Learn all the chapters covered before vacations.
3. Complete notes of chapter 1,2 and 3 in your fair notebook.
4. Write 20 short question answers of each chapter covered before vacations in the assignment notebook of History along with their mind map.
5. Make a model the following topics as per your roll no.-
   * Mesopotamian tablets (roll.no. 1 to 8)
   * The great wall of China. (roll.no. 9 to 16)
   *Roman Calendar (roll.no.17 to 24)
   * Family tree of Genghis Khan (roll.no. 25 to 32)
6. Make a beautiful chart on any one of the following topic-
    i) Mesopotamian Civilization   ii) Roman Society
    iii) Family tree of Genghis Khan
    iv) Prepare a timeline of the major developments and events from human origins to early civilization.
    v) Any relevant topic from History.

Economics

1. Make Mind Map of Ch- 1,3,4 and 9 in your notebook with the help of 'Revision of key points' given at the back of every chapter.
2. Write and learn all concepts given in 'Revision of key points'.
3. Read news related to Economy daily and write one news in a notebook with the pic.
4. Solve Objective questions given at the back of each chapter(1,3,4,9)
5. Solve 50 numericals of Elasticity of demand and supply given in exercise.
6. Collect information for the given Project and prepare a case study. Complete work related to survey and analysis of data.
7. Make Modal/Chart on any one topic given below:
    Law of demand/ law of supply, Factors of production, Cashless Economy
    Make in India, any other relevant topic

NOTE: Do written work in a separate notebook.

Physical Education

1. Labelled diagram of 400 metre track and explain 100 metre,200 metre, 400 metre, 800 metre, and 1500 metre races and show in 400 metre track.
2. Field Events
   Shot put, discus throw ,   javelin throw,   long jump,   High jump
3. Anyone game of your choice out of the list above. Labelled diagram of field and equipment (rules, terminologies and skills) etc.
 Badminton , Boxing, Athletics ,Lawn Tennis,Table Tennis,Wrestling
4.Pictorial presentation of any five asanas.
Do your holiday homework in practical file.

Music

1. भारतवर्ष के किन्हीं 8 राज्यों के लोक नृत्य का सचित्र वर्णन कीजिए।
2. भारतीय संगीत के वाद्य यंत्रों में से किन्ही पांच वाद्यों के नाम व उनका चित्र सहित वर्णन कीजिए।
3. संगीत क्षेत्र में कौन से संगीतज्ञ को पदम श्री, पदम विभूषण और भारत रत्न पुरस्कार मिला है सचित्र वर्णन कीजिए।
4. तानपुरे का सचित्र वर्णन करते हुए तानपुरा मिलाने की विधि पर प्रकाश डालिए।
5. विद्यादायिनी मां सरस्वती का चित्र स्वयं बनाकर प्रोजेक्ट फाइल पर पेस्ट करें।

6. संगीत गायन में किसी एक गायक का चित्र सहित वर्णन कीजिए, संगीत वादन में किसी एक वादक का चित्र सहित वर्णन कीजिए एवं कथक नृत्य में किन्ही दो का सचित्र वर्णन कीजिए।

Hindi

नोट :- * सभी प्रश्नों के उत्तर ध्यानपूर्वक और सुंदर लेख में लिखिए।

* दिए गए प्रश्न उत्तर प्रदत्त कार्य (असाइनमेंट) लिखित पुस्तिका में लिखिए

प्रश्न 1 'नमक का दरोगा' और 'मियां नसीरुद्दीन' पाठ को पढ़कर 10-10 अतिरिक्त प्रश्न - उत्तर 40 से 50 शब्दों में लिखिए।

प्रश्न -2) 'कबीर के पद' और 'मीरा के पद' को पढ़कर 10 - 10 अतिरिक्त प्रश्न- उत्तर 30 से 40 शब्दों में लिखो।

प्रश्न 3) भारतीय गायिकाओं में बेजोड़ लता मंगेशकर पाठ में से 5 अतिरिक्त प्रश्न- उत्तर लगभग 80 से 100 शब्दों में लिखो।

प्रश्न 4 'भारत कोकिला' लता मंगेशकर जी के जीवन पर अपने विचार 80 से 100 शब्दों में लिखिए।

प्रश्न 5 निम्नलिखित विषयों पर 100 से 120 शब्दों में अनुच्छेद लेखन हिंदी की लिखित पुस्तिका में लिखिए :

 1) वर्तमान में युवा पीढ़ी में नैतिक मूल्यों का पतन।   (2)सड़क सुरक्षा जीवन रक्षा

(3)शिक्षा का बदलता स्वरूप   4) जीवन की एक अविस्मरणीय यात्रा

5) आत्मनिर्भरता की ओर बढ़ते हमारे कदम।

प्रश्न :-6) भक्तिकालीन कवि कबीर की निर्गुण भक्ति धारा (दृष्टिकोण) को प्रदर्शित करते हुए एक मॉडल तैयार कीजिए। निम्नलिखित बिंदुओं को ध्यान में रखते हुए: - (section A)

* मूर्ति पूजा का खंडन   * एकेश्वरवाद की महत्ता *जातिगत भेदभाव का विरोध   * गुरु का महत्व

 प्रश्न:- 7) भक्ति कालीन कवयित्री ' मीरा' की सगुण भक्ति धारा को प्रदर्शित करते हुए एक अन्य सगुण भक्ति के समर्थक ' तुलसीदास ' के ग्रंथ 'रामचरितमानस' के किसी प्रसंग पर मॉडल तैयार कीजिए। (Sec.E,F)

प्रश्न :- 8) आधुनिक समय की मांग को ध्यान में रखते हुए जनसंचार माध्यमों पर एक आकर्षक मॉडल तैयार कीजिए।   (Section B, C)

प्रश्न 9) किन्हीं दो जनसंचार माध्यमों का आकर्षक चित्र बनाकर उसकी खूबियां और खामियां लिखिए।

प्रश्न 10) प्रतिदिन के समाचारों को सुनकर अथवा पढ़कर प्रतिदिन 2 मुख्य समाचार लिखें।

प्रश्न 11) संगीत के विभिन्न वाद्य यंत्रों के चित्र बनाकर चार्ट अथवा A3 साइज शीट पर लगाइए।

प्रश्न 12) अप्रैल, मई के महीने में करवाए गए पाठ्यक्रम को याद कीजिए।

Informatics Practices

1.Answer the following questions:-
   i.   What is python.
   ii.   What does IDLE stand for? What is Python IDLE?
   iii. Python is cross platform language .How?
   iv.   Explain any three features of python.
   v.   Is python case sensitive.Explain.
   vi.   What are tokens?
   vii. What are Keywords?
   viii. What are identifiers and literals?
   ix.   What is a variable?
   x.   What are the naming conventions of identifiers/variables/literals.

xi. What is the default separator and terminator in print() function in Python? How can we change it?

xii. What are the comments? Declare a single-line comment and a multi-line comment.

2. Differentiate between

i Interactive mode and Script mode   ii Compiler and Interpreter

iii Keyword and variable   iv / and //   v = and = =

3.Identify valid and invalid variable names from the following:

 percentage%, 12class, final-exam, Class, For, _subjects

4. Identity which of the following expressions are correct:

i x,y,z=12.5, 170, 'Samarth'   ii x,y,z=12.5, 170, 'Samarth', k

iii x=y=z=100   iv x,y = 10,10, z = 10   v x,y = 10

5.Give the data type of the following variables:

   i.   x= 'Raghav' ii y= 100.56   iii z=10   iv t=15 +6j

   v.   var1=[120, 130, 140, 'Ajit']   vi. var2=('May', 'June', 5, 6)

    vi num=true

6. Determine the type of each of the following:

   i.   42   ii 2   iii '42'   iv (4, 2)

7.Observe the following script and enlist all the tokens used in it.

```
#Identify tokens in the script
name="Fatima"
cl=eval(input("Enter class: "))
print (name,"studies in", cl,"class")
```

8.What will be the output of the following code?

```
x , y=2,6
x, y=y, x+2
print (x, y)
```

9.What will be the output produced by the following code?

```
name = 'Neeru'
age =21
print (name, "you are", 21, "now")
```

10.Write Python command to display a message on the screen – "First python Exam"

11. Write the differences between

a) Grid Computing and cloud computing   c) IAAS , PAAS and SAAS

b) Data Captue and Data Storage

12. What is Big data ? Explain all 5V's.

13. What is block chain technology? Write any 3 applications of it.

14 Make a dummy model on the following topics:

   a) SMART City/ with labels   XI-F

   b) Types of Robots   XI- E

   c) Artificial Intelligent Gadgets   XI-C

   d) Block Chain/IAAS,PAAS, SAAS/ Cloud Computing   XI-B

   e) Emerging Trends(any topic)   XI-A

15. Make a small video of yours with an animated character using any augmented reality.