

**D.A.V. CENTENARY PUBLIC SCHOOL
SECTOR-6, BAHADURGARH
Session (2026-27) Class- XI ARTS**



“A vacation helps to relieve stress and boredom, gives us a change of scenery, provides us with adventure, and helps to bring us closer to the people in our lives.”

By :- E. S. Woods

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 instill the joy of learning among you all. So, make sure you extract the maximum benefit out of these holidays.

Summer Tips:

- ❖ Start your day with gratitude and prayers.**
- ❖ Exercise daily and practice meditation.**
- ❖ Assist your mother in household chores.**
- ❖ Pledge for "Eat Right"- Less Sugar, Less Oil and Less Salt**
- ❖ Wash hands frequently, especially before and after meals**
- ❖ Read newspaper daily and stay updated with current affairs.**
- ❖ Water the plants and rejoice the beauty of nature**

English

1) Book or Movie Review

Review an age-appropriate English book or film including:

Plot, characters, message, favourite dialogue

2) Interview an Elder : Ask grandparents/elders about:

their school life, childhood memories, festivals in earlier times, Then write all information in the form of a paragraph

3) 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).

4) Prepare a speech on the given topic:

Social Media and Youth (R.N.1 - 15)

Role of Youth in National Development (R. N. 16 - 30)

Importance of Mental Peace (31-45)

Impact of Technology on Youth (R. N. 46 - 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.1-15)

Trees- Lungs of the World. (16-30)

Importance of yoga and Exercise (31-45)

Communal Harmony (46-last)

7) Write recapitulating points of all the chapters done in literature. (in the form of :

Colourful Mind - map , Flow chart, Web chart, (Include all important events theme message and characters)

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 QUESTIONS IN A SEPARATE NOTE-BOOK.

1. Express in radians the fourth angle of a quadrilateral which has three angles $46^{\circ}30'10''$, $75^{\circ}44'45''$ and $123^{\circ}9'35''$.

2. Find the domain of the function : $f(x) = \sqrt{4-x} + \frac{1}{\sqrt{x^2-1}}$

3. Find the domain and range of the function : $f(x) = \frac{1}{2-\sin 3x}$

4. Find the domain of each of the following functions given by
- (i) $f(x) = \frac{1}{\sqrt{x-|x|}}$ (ii) $f(x) = \frac{1}{\sqrt{x+|x|}}$ (iii) $f(x) = \frac{1}{\sqrt{x-[x]}}$
 (iv) $f(x) = \frac{1}{\sqrt{x+[x]}}$
5. 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. Express the angle of the sector in degrees, minutes and seconds.
6. Find in degree and radians the angle between the hour hand and the minute hand of a clock at half past three.
7. Prove that : $\cos 510^\circ \cos 330^\circ + \sin 390^\circ \cos 120^\circ = -1$
8. Prove that $\tan 5\pi/12 + \cot 5\pi/12 = 4$
9. If α and β are acute angles such that $\tan \alpha = \frac{m}{m+1}$ and $\tan \beta = \frac{1}{2m+1}$, prove that $\alpha + \beta = \pi/4$
10. Prove that : $\cos 20^\circ \cos 40^\circ \cos 60^\circ \cos 80^\circ = 1/16$
11. Find the domain of the function $f(x) = \frac{1}{\sqrt{1-\cos \cos x}}$
12. Find the domain and range of the function $f(x) = \frac{1}{\sqrt{4+3 \sin x}}$
13. Find the minimum and maximum value of the function :
- (i) $\sin^4 x + \cos^2 x$ (ii) $3 \sin^2 x - 2 \cos^2 x + 9$
14. Prove that : $\sqrt{2 + \sqrt{2 + 2 \cos 4x}} = 2 \cos x$
15. Draw graphs of all trigonometric functions.

Political Science

Q1) DO Following questions in Holidays Homework notebook:-

1. Compare election of the President , Prime Minister of India – Highlighting –(Electoral College, Tenure, Impeachment) .
2. Difference of Powers and Functions of Lok Sabha & Rajya Sabha
3. Explain the Process of How Bill becomes Law.
4. Write all The Powers of President of India- Including Discretionary , Emergency, Legislature, Executive, Judicial etc..
5. Write a note on Your Favorite Political Leader, why is he/she an inspiration for you.
6. What changes you want to bring in Indian Political System
7. How Parliament Controls the Executive ..Explain in detail
8. Write Part 1 to 5 and schedule 1 to 5 of Indian Constitution

Q10) Make a Model on

Roll no 1 to 10 Fundamental Rights (A3 sheet

Roll No 20 to 30 Indian Judicial System ... Hierarchy

Roll no 30 to 40 - Powers of Prime Minister

Roll no 40 to last - - Election system

Q11) Collect 10 National /International headlines NEWS and make Explain in brief the issue

Highlighted in Holidays homework notebook only

Note:- Learn all the Syllabus done till date in the classroom.

Geography

Do these questions in Geography Assignment notebook.

Q-1 Describe the structure of the Earth with the help of diagram.

Q-2 What is earthquake? Describe earthquake waves.

Q-3 Define Volcanoes and associated materials and different types of volcanoes types.

Q-4 Describe the direct and indirect sources of information about the Earth interior.

Q-5 Describe the earthquake shadow zone with the help of appropriate diagrams.

Q-6 What do you understand by Physiography of India ? Explain division of India according to Physiography of it.

Q-7 Explain North and eastern Himalayas characteristics and ranges.

Q-8 Peninsular plateau (describe main features), and division of it.

Q-9 Differentiate between two island groups of India.

Q-10 Differentiate between Coastal plains of India.

Q-11 Describe geological division of India .

Q-12 Explain Northern plain of India with its division.

Complete first two chapters of Practical in Practical file.

Learn all chapters completed till date.

Weather Observation Diary (7 Days)

Observe and record daily:

Temperature, Cloud condition, Wind direction, Humidity, Rainfall

Make a colorful weather table and write a short conclusion about climate patterns in your area. # Do it on A 3 size sheet.

History

Make a project report on ch-5 Nomadic Empire.

Note- Project should be handwritten covering at least 20 to 25 pages.

A) Learn all the chapters covered before vacations.

B) Complete notes of chapter 1 and 2 in your fair notebook.

C) Write the following question answers in assignment notebook of History-

1) Mention any two important works done by Emperor Constantine.

2) Who were known as Patricians?

3) Write any two important economic reforms introduced by Augustus in Roman.

4) Write about the geographical situation of the Roman Empire.

- 5) Explain in brief the Roman Calendar.
- 6) Why was trade so significant to the Mongols?
- 7) Describe any features of Yasa.
- 8) What was the reason behind the construction of the Great Wall of China?
- 9) What factors were responsible for Genghis Khan's success?
- 10) Describe the religious policy of the Mongols.
- 11) What was Qubkur?
- 12) Explain briefly the family tree of Genghis Khan.
- 13) What is the meaning of the term Quriltai? Describe in short its two functions.
- 14) What do you know about Ulus?
- 15) Mongolia has projected Genghis Khan as an iconic figure for forging national identity, along with carrying the nation into the future. Justify this statement with suitable arguments.

Economics

1. Learn and write answers of following questions:

- A) Define PPC with the help of table and diagram. Explain why it is downward sloping and concave to the origin?
- B) Differentiate between change in quantity demanded and change in demand.
- C) Explain impact of following changes on demand curve of a commodity: (Use diagram)
 - i) Change in taste and preferences of the consumer.
 - ii) Change in income of the consumer, who is using normal goods.
 - iii) Change in price of substitute goods
 - iv) change in price of complementary goods.
- D) Differentiate between movement along supply curve and change in supply.
- E) How change in technology and change in price of inputs will affect supply curve of a commodity.

2. Solve numerical questions of elasticity of demand and elasticity of supply. (Total - 40 numericals).

3. Read ECONOMIC TIMES daily and write one news in detail.

4. Make one project on the topics discussed in class.

Physical Education

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. Any one game of your choice out of the list above. Labelled diagram of field and equipment (rules, terminologies and skills) etc.

Handball, Kho kho, Judo, Table Tennis, Football, Lawn Tennis

4. Pictorial presentation of any five asanas.

Music

(Music Project file work)

1. भारतीय संगीत में खुले खुलों व बंद बोलों के ऐसे कोन से ताल है जिनको आप एकगुन या दुगुन में लिख सकते हैं ?
 2. भारतीय संगीत के ऐसे पांच कलाकारों के नाम लिखिए जिनको अब तक पद्मश्री पुरस्कार मिल चुका है
 3. उनके विषय में संक्षिप्त जानकारी विस्तार से लिखिए।
 4. भारतीय संगीत के ऐसे पांच कौन से कलाकार हैं जिनको अब तक पद्म विभूषण पुरस्कार मिल चुका है ? उनका संक्षिप्त वर्णन कीजिए ।
 5. भारतीय संगीत के उन कलाकारों के नाम संक्षिप्त वर्णन किजिये जिनको अब तक भारत रत्न पुरस्कार से नवाजा गया है।
 6. भारतीय संगीत में वाद्य यंत्रों को चार वर्गों में विभाजित किया गया है पहले सुषिर वाद्य दूसरा घन वाद्य तीसरा तंत्र वाद्य और चौथा अवनद वाद्य इन चारों वर्गों के वाद्य यंत्रों का सचित्र वर्णन किजिए ।
- Note:** प्रत्येक वर्ग के वाद्य यंत्र तीन-तीन होने चाहिए
7. निम्नलिखित शब्दों की व्याख्या कीजिए- आरोह, अवरोह, पकड़, वादी स्वर, संवादी स्वर, सप्तक, थाट, स्वरो के प्रकार, चल स्वर, अचल स्वर, वर्जित स्वर आदि ।
 8. मां सरस्वती का चित्र बनाकर यह वंदना लिखिए है हंस वाहिनी ज्ञान दायिनी अंब विमल मत दे इस वंदना को पूरा कीजिए।
 9. निम्नलिखित राग व तालों का संक्षिप्त वर्णन कीजिए राग वृंदावनी सारंग, राग जोनपुरी , राग भीमपत्तासी , राग बिहाग रूपक ताल, झपताल , एक ताल , चार ताल और तीनताल
 10. निम्नलिखित वाद्यों के वादको का वाद्य साहित सचित्र वर्णन कीजिए- हारमोनियम, सितार, तबला, बांसुरी, शहनाई, संतूर, सारंगी, सरोद।

Hindi

निर्देश: कार्य साफ-सुथरी लिखावट में करें।

- परियोजना कार्य फाइल/स्क्रीनपबुक में प्रस्तुत करें।

- प्रश्न 1. आरोह पाठ्य पुस्तक के गद्य खंड पाठ (1-4) पढ़कर प्रत्येक से 5 अतिरिक्त प्रश्नों का निर्माण करें।
- प्रश्न 2. मियां नसीरुद्दीन पाठ की सबसे मजेदार घटना का वर्णन अपने शब्दों में लिखिए।
- प्रश्न 3 .आरोह पाठ्य पुस्तक के काव्य खंड की पहली चार कविताएं पढ़कर प्रत्येक से 5 अतिरिक्त प्रश्नों का निर्माण करें।
- प्रश्न 4..अपने बचपन की कोई मजेदार घटना लिखिए।
- प्रश्न 5.. अप्पू का चित्र बनाकर उसके बारे में 5 वाक्य लिखिए।
- प्रश्न 6..कृष्ण एवं मीरा बाई का सुंदर चित्र बनाइए।

प्रश्न 7. चित्रपट संगीत और शास्त्रीय संगीत का तुलनात्मक चार्ट बनाइए।

* रचनात्मक कार्य

प्रश्न 8. निम्नलिखित उपविषयों लगभग 80 से 100 शब्दों में अनुच्छेद लिखिए।

- “ईमानदारी सबसे बड़ी शक्ति है”
- “मेरी गर्मी की छुट्टियाँ” (यात्रा, खेल, पुस्तक पढ़ने या परिवार के साथ बिताए समय का वर्णन कीजिए।)
- ऑनलाइन शॉपिंग: समय की मांग
- क्या नहीं कर सकती नारी

प्रश्न 9. आपने किसी पुस्तक विक्रेता से कुछ पुस्तक मंगवाई थी जो आपको अभी तक नहीं मिल पाई है इस बारे में सूचित करते हुए शीघ्र पुस्तकें भिजवाने हेतु पुस्तक विक्रेता को एक पत्र लिखिए।

प्रश्न 10. अपने गांव में पुस्तकालय एवं वाचनालय खोलवाने हेतु जिला परिषद के अध्यक्ष को पत्र लिखिए।

प्रश्न 11. जल निगम के मुख्य अधिकारी के नाम दूषित जल की आपूर्ति पर एक शिकायती पत्र लिखिए।

प्रश्न 12. किसी समाचार पत्र के संपादक को एक पत्र लिखिए जिसमें दूरदर्शन के लाभ और हानि का उल्लेख किया गया हो।

* परियोजना कार्य

- समाचार पत्र, रेडियो, टीवी और इंटरनेट के चित्र एकत्र करके कोलाज बनाइए।
- “सोशल मीडिया के लाभ और हानि” विषय पर तालिका बनाइए।

नोट: आवधिक परीक्षा 2 का पाठ्यक्रम याद कीजिए।

Informatics Practices

Write all answers in a separate notebook/ Assignment notebook.

1. Answer the following questions:-

- What is python.
- What does IDLE stand for? What is Python IDLE?
- Python is cross platform language .How?
- Explain any three features of python.
- Is python case sensitive.Explain.
- What are tokens?
- What are Keywords?
- What are identifiers and literals?
- What is a variable?
- What are the naming conventions of identifiers/variables/literals.
- What is the default separator and terminator in print() function in Python? How can we change it?
- 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)
ii.

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 Capture 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. What is Artificial Intelligence? Explain 1. Augmented reality 2. Virtual reality 3. Robotics.

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

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