PM SHRI KV NO.1 JHANSI CANTT
Holiday homework
Class 12th B

(English Core)

1.Attempt all three sets of the previous session question paper in your notebook.
2.Practice of writing skills - each one on various Educational and contemporary topics.
A.Notice writing
B Invitation and reply (Formal and Informal)
C.Report writing (Newspaper and Magazines)
D. Article writing.
E. Letter to the Editor
F. Application for Job

HINDI

कक्षा - बारहवीं (हिंदी-कोर)

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1. पाठ्यक्रम की कोई भी एक कविता याद करके तथा उसका वीडियो बनाकर मुझे व्यक्तिगत प्रेषित करें । **(**कविता डेढ़ मिनट से पाँच मिनट **) (**वाचन**-**कौशल अभ्यास**)**

2. **'**परीक्षा**-**तनाव के कारण व बचने के उपाय' या 'डिजिटल युग और मैं' में से किसी एक विषय पर रचनात्मक लेख लिखिए। **(** शब्द**-**सीमा **120** शब्द **)**

3. भक्तिन पाठ का नाट्य**-**रूपांतरण करें । **(** शब्द सीमा **100** शब्द **)**

4. 'अभिव्यक्ति और माध्यम' पुस्तक से पाठ संख्या **3** और **4** से पाँच**-**पाँच लघु प्रश्न और उत्तर लिखें ।

5. निम्नलिखित में से कोई दो फ़िल्में देखिए और उनसे मिलने वाली पाँच प्रमुख शिक्षाएँ लिखिए **:—**

i :- https://youtu.be/gZy4vlGf7MY
I am kalam

ii :- https://youtu.be/CPXkijYl9Y0
Chalk n duster

iii :- https://youtu.be/a1G1Sg3-g2g
Taare zameen par

iv :- https://youtu.be/l3Sqdk88gH4
Baghban

v :- https://youtu.be/epKzi21TRN8
उम्मीद (लघु फ़िल्म)

vi :- https://youtu.be/OnhZDZXzBz4
रद्दी लाइब्रेरी (लघु फ़िल्म)

6. जनसंचार के माध्यम कितने प्रकार के होते हैं**!?** सचित्र फ़ाइल बनायें ।

7.पाठ्य-पुस्तक में विद्यमान किसी भी कवि/लेखक पर परियोजना तैयार करें । (कवि/लेखक का परिचय, रचनाओं के नाम व रचनाओं का संक्षिप्त परिचय , पुरस्कार, आपका कवि /लेखक के बारे में विचार , उनकी रचना पर टिप्पणी और उन कवि /लेखक का काल्पनिक साक्षात्कार व अन्य यदि कुछ आपको उचित लगे) (**A4** साइज़ पेपर में) (कम-कम पच्चीस पृष्ठों में यह कार्य करें ।)

8. अभी तक जो भी पढ़ाया गया है, उसको कम-से कम पाँच बार दोहराएँ। आते ही उसी से प्रश्न पूछे जाएँगे।

9. पीढ़ी -अन्तराल किसे कहते हैं**?** वर्तमान समय के परिप्रेक्ष्य में उदाहरण सहित लिखें ।

10. कला समेकित परियोजना **:—** अरुणाचल प्रदेश की ग्रामीण संस्कृति एवं उनकी विशेषताएँ (पीपीटी व वीडियो) **(Art Integrated Project)**

11. विद्यालय पत्रिका हेतु अपनी लिखी हिंदी भाषा में रचनाएँ (कविता/कहानी/लेख आदि) अवश्य लेकर आएँ। ये रचनाएँ आपकी मौलिक होनी चाहिए। टाइप की हुई या हाथ से लिखी हो सकती हैं। किसी और लेखक/ कवि की कॉपी-पेस्ट रचनाएँ स्वीकार नहीं।

MATHEMATICS

ASSIGNMET
MATHEMATICS

1. Let f : N → R be a function defined by f(x) = $4x^2 + 12x + 15$

   Show that f : N → S Where S is range of f, is bijective function.

2. Show that the relation S in the set A = { x ϵ Z : 0≤ x ≤ 12] given by

   S = { (a, b) : a, b ϵ z, |a – b| is divisible by 4} is an equivalence relation. Find the set of all elements related to 1. Also write equivalence class [2].

3. Prove the following:-$cos\left[tan^{-1}\,sin\left(cot^{-1}x\right)\right] = \sqrt{\frac{1+x^2}{2+x^2}}$
4. Evaluate$cos^{-1}\left(cos^2\frac{\pi}{3}\right) + sin^{-1}\left(sin^2\frac{\pi}{6}\right)$
5. The principal value of $\cos^{-1}$(cos (- $\frac{34\pi}{9}$)) is
6. If $\begin{bmatrix} 9 & -1 & 4 \\ -2 & 1 & 3 \end{bmatrix}$ = A + $\begin{bmatrix} 1 & 2 & -1 \\ 0 & 4 & 9 \end{bmatrix}$ then find the matrix A.
7. If A = $\begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$, Verify that A^2- 4A -5I=O
8. Three schools X, Y and Z organized a fete (mala) for collecting funds for flood victims in which they sold hand held fans, mats and toys made from recycled material, the sale price of each being Rs. 25, Rs. 100 and Rs. 50 respectively. The following table shows the number of articles of each type sold

Articles/School	X	Y	Z
Hand – held fans	30	40	35
Mats	12	15	20
Toys	70	55	75

   Using matrices. Find the funds collected by each school by selling the above articles and the total funds collected. Also write any one value generated by the above situation.

9. For what value of x, the matrix $\begin{bmatrix} 5-x & x+1 \\ 2 & 4 \end{bmatrix}$ is singular.
10. Show that the matrix A= $\begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$ satisfies the equation A^2-5A+7I=O. Hence Find A^{-1}

CHEMISTRY

Class 12 B
SUBJECT : CHEMISTRY

1) **Complete your notebook and solve all numericals from ncert text book.**
2) **Make notes of chapters ELECTROCHEMISTRY and CHEMICAL KINETICS.**
3) **Prepare framework for investigatory project , start sampling if any.complete Filework**
4) **Only readings and result to be left.**
5) **Write in practical record copy**
   (a.)Apparatus used in chemistry lab
   (b.)Precautions to be taken while handling chemicals.

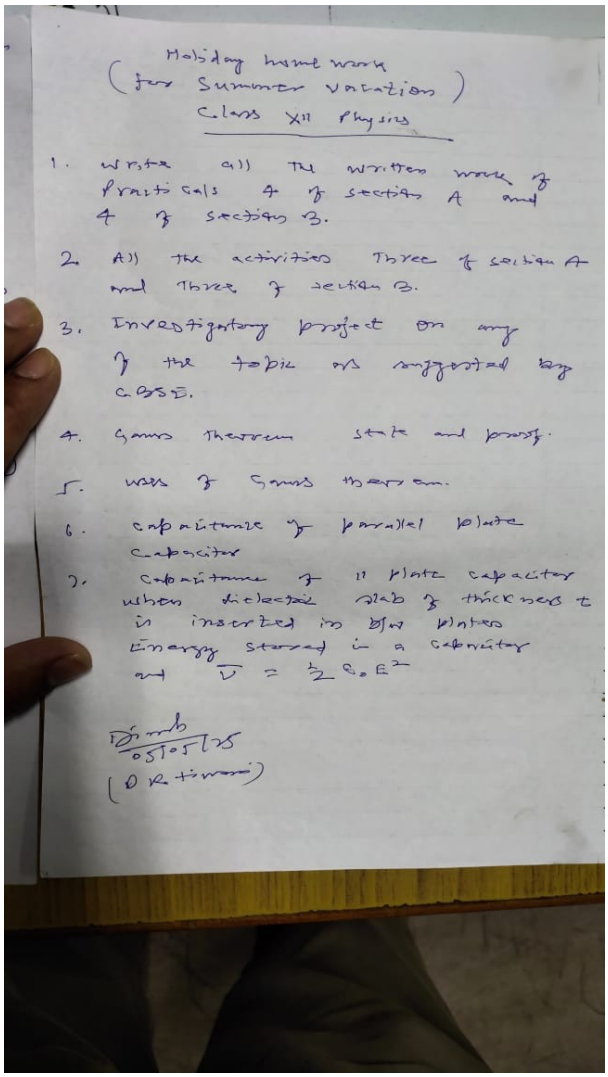
(c.) practical 1 : preparation of M/20 oxalic acid solution .

(d.) Practical 2: preparation of M/20 Mohr's salt solution.

6) Read biography of any one scientist and discuss invention during CLA in june.

7) Watch movies like MISSION MANGAL , URI, BORDER, I M KALAM,ROCKET BOYS, Chandrayaan and write the review of any one movie.

PHYSICS



Holiday home work
(for Summer Vacation)
Class XII Physics

1. Write all the written work of Practicals & of section A and 4 of sections B.
2. All the activities Three of section A and Three of section B.
3. Investigatory project on any of the topic as suggested by CBSE.
4. Gauss theorem state and proof.
5. Uses of Gauss theorem.
6. Capacitance of parallel plate Capacitor
7. Capacitance of 11 plate capacitor when dielectric slab of thickness t is inserted in between plates Energy stored in a capacitor and $U = \frac{1}{2} C_0 E^2$

05/05/25
(D Ratnavani)

BIOLOGY

PM SHRI KENDRIYA VIDYALAYA NO 1 JHANSI CANTT
SUMMER VACATION HOMEWORK
CLASS- XII
SUBJECT-BIOLOGY

Q.1 Complete your Notebook.

Q.2 Complete your investigatory project.

Q.3 Draw the following diagram

(i) young anther (ii) megasporangia

(iii) monocot and dicot seed (iii) Double fertilization

(iv) Seminiferous tubules (v) T S of testis

(V**) Schematic representation of Spermatogenesis and Oogenesis**

Q.4 Differentiate between

(i)Geitonogamy and xenogamy (ii) perisperm an endosperm

(iii) vegetative cell and generative cell

Q. 5 Draw a label diagaram of human female reproductive system.

Q. 6 Draw a section view of human ovary showing the different stages of development

Q. 7 Draw the label diagram of mature sperm and label it and also explain function of each parts.

Q. 8 Explain the different page of menstrual cycle.

Q. 9 Why is copper T act as an effective contraceptive for human female?

Q. 10 Write a short notes on different methods of contraceptive

Q. 11 learn and revise MCQs and PYQs of first three chapter.

12 Why is saheli a well accepted contractive pills?

13 What are the suggestive reasons for population explosion?

Happy summer vaction

ARTIFICIAL INTELLIGENCE (C S)

Write Programs for the following with output-

#1 Write a program to input the sides of a triangle and find out it is scalene/isoceles / equilateral.

#2 Write a program to input the sides of a triangle and find out it is right angled triangle or not.

#3 Write a program to input the month number and show the season of the month.(Summer/Winter/Monsoon/Autumn)

#4 Write a program to input a number and print the list of all the factors. -

#5 Write a program to input two numbers and find their HCF and LCM.

#6 Write a program to reverse a number. Find out it is palindrome or not.

#7 Create a list on names and then ask user to input a name. Display the name is present or absent in the list.

#8 create a list of numbers and write the code to reverse it.