

KV AFS BKT LUCKNOW
AI-IXA,IXB
SUMMER VACATION HOLIDAY HW 2022-23
TO BE DONE IN CLASS WORK COPY

S.No.	DATE	ASSIGNMENT
1	09.05.2022	What are the three major domains of AI?.
2	10.05.2022	What is the difference between inter-personal & intra – personal intelligence.
3	11.05.2022	Define intelligence.
4	12.05.2022	What is decision making?
5	13.05.2022	What is AI?
6	14.05.2022	What is not AI?
7	16.05.2022	How do Machine Learning Systems work?
8	17.05.2022	How do Deep Learning systems work?
9	18.05.2022	What is data science? How does it use AI? Give examples.
10	19.05.2022	What is computer vision? Give some example of computer vision-based AI application.
11	20.05.2022	What is NLP? Give some example of NLP based applications.
12	21.05.2022	What is machine learning?
13	23.05.2022	What is Deep learning?
14	24.05.2022	How is deep learning related to machine learning?
15	25.05.2022	Define AI Ethics.
16	26.05.2022	List some ethical issues related to AI.
17	27.05.2022	What is smart school ?
18	28.05.2022	What is a smart phone ?
19	30.05.2022	What is smart city ?
21	01.06.2022 TO 10.06.2022	Prepare notes of ch-2,ch-03
22	11-17.06.2022	Prepare notes of ch-4,ch-05

PRACTICAL ASSIGNMENT

A. Chatbots are AI tools that use NLP (for voice based as well as text based interaction).

1. Open link: <https://web.njit.edu/~ronkowitz/eliza.html>

2. You will see a chatbot, namely Eliza, who can guide you in case you feel bad or sad. 3. Try interacting with chatbot by typing in the box

B. Try to use the given below link for surprise

(AI Based)<https://quickdraw.withgoogle.com>

MANJU
PGT(CS)

केन्द्रीय विद्यालय वायुसेना स्थल बक्सी का तालाब लखनऊ

SUMMER HOLIDAYS HOMEWORK Class -10 (2022-23)

Sub- Social Science

SOCIAL SCIENCE PREPARATION AND SUBMISSION OF PROJECT WORK Each student will prepare and submit her/his project on any one of the topics given below . 1 CONSUMER AWARENESS(1. Consumer awareness and its need. 2. Various forms of consumer exploitation 3. Role of producers in protecting consumer right)

Or

SOCIAL ISSUES

OR .

SUSTAINABLE DEVELOPMENT .

Following essentials are required to be fulfilled for its preparation and submission: 1. The total length of the project report will be 15-20 pages. 2. The project report will be handwritten and credit will be awarded to original drawings, illustrations and creative use of materials. 3. The project report will be presented in a neatly bound simple folder. 4. The project report will be developed in this sequence- • Cover page showing project title, student information, school and year • List of contents • Acknowledgements and preface (acknowledging the institution, offices and libraries visited and person who have helped). • Introduction. • Chapters with suitable headings. • Conclusions (summary and suggestions or findings, future scope of study) • Bibliography • All the photographs and sketches should be labeled and related to the theme. • Appendix (if needed)

2- Data collection - 1-Write the names of 10 developed and developing countries with their per capita income . 2- collect following information from human development report of 2021- -First 5 top ranks countries -India's rank - country at last rank . SUBJECT TEACHERS

Mr. D.K SINGH

Mr. Mrituanjay singh

SUMMER VACATION ASSIGNMENT/HW (2022-23)

CLASS- X SUBJECT- MATHEMATICS

INSTRUCTIONS:

- *Read all the questions carefully before solving. Write the solution of questions in Mathematics homework notebook.*
- *Complete the project separately on A4 sheets in neat and clear hand writing and attractive.*
- *Make a cover page for project mentioning your name, class and roll number clearly.*

Section A (Questions)

1. Check whether $75/455$ is terminating or non-terminating decimal expansion.
2. Check whether $654.737373\dots$ is a rational number. Justify.
3. A polynomial of degree 2 is called ----- polynomial. (Cubic/ quadratic/ linear)
4. $\sqrt{25}$ is a -----number. (rational/irrational)
5. Find the p/q form of $0.09999\dots$
6. Find the H.C.F. of 567 and 255 using Euclid's division algorithm.
7. Find the LCM and HCF of 510 and 92 and check whether $\text{LCM} \times \text{HCF} = \text{product of the given numbers}$.
8. Find the degree of :
(i) $6x^3 - 7x - 3$ (ii) $4x^4 - 3x^5 - 4x + 1$ (iii)
9. If $p(x) = x^3 - 3x^2 + 5x - 3$. find $p(2)$, $p(-1)$.
10. Prove that $-\sqrt{3}$ is an irrational number.
11. Prove that $2 - 7\sqrt{3}$ is an irrational number.

- 12.** Factorize the following polynomials:
- i. $4x^2 - 3x - 1$
 - ii. $3x^2 + 4x - 4$
 - iii. $5t^2 + 12t + 7$
- 13.** Prepare a table representing different solids and their names, surface areas and Volumes formulas. Do this on half of a chart paper.

Section B (project work/activities)

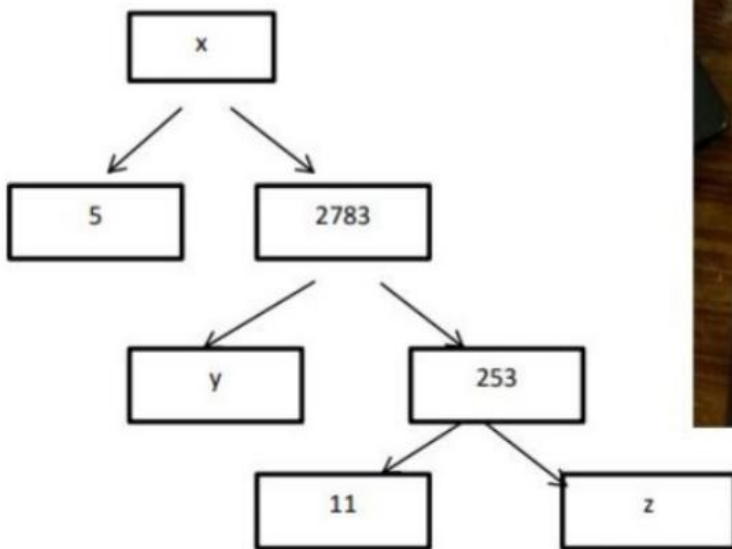
- 14.** Make a project on the title “ π - **WORLD'S MOST MYSTERIOUS NUMBER**”
- 15.** Perform following activities and write in activity notebook:

Activity 1: OBJECTIVE : To give a suggestive demonstration of the formula that the area of circle is half the product of its circumference and radius.

Activity 2: OBJECTIVE : To Derive the formula for Volume of a cube and cuboid using model and verify with example and calculation.

16. CCT QUESTIONS

(i) A mathematical Exhibition is being conducted in your school and one of your friends is making a model of a factor tree. He has some difficulty and ask for your help in completing a quiz for the audience. Observe the following factor tree and answer the following.



- i. What will be the value of x?
 a) 15005 b) 13915 c) 56920 d) 17429
- ii. What will be the value of y?
 a) 23 b) 22 c) 11 d) 19
- iii. What will be the value of z?
 a) 22 b) 23 c) 17 d) 19
- iv. According to Fundamental Theorem of Arithmetic, 13915 is a.
 a) Composite number b) Prime number
 c) Neither prime nor composite d) Even number
- v. The prime factorisation of 13915 is
 a) $5 \times 11^3 \times 13^2$ b) $5 \times 11^3 \times 23^2$ c) $5 \times 11^2 \times 23$ d) $5 \times 11^2 \times 13^2$

(ii)

Four satellites revolve around the earth once every 6, 8, 10, and 15 hr, respectively. If the satellites are initially lined up, how many hours must pass before they will again be lined up?



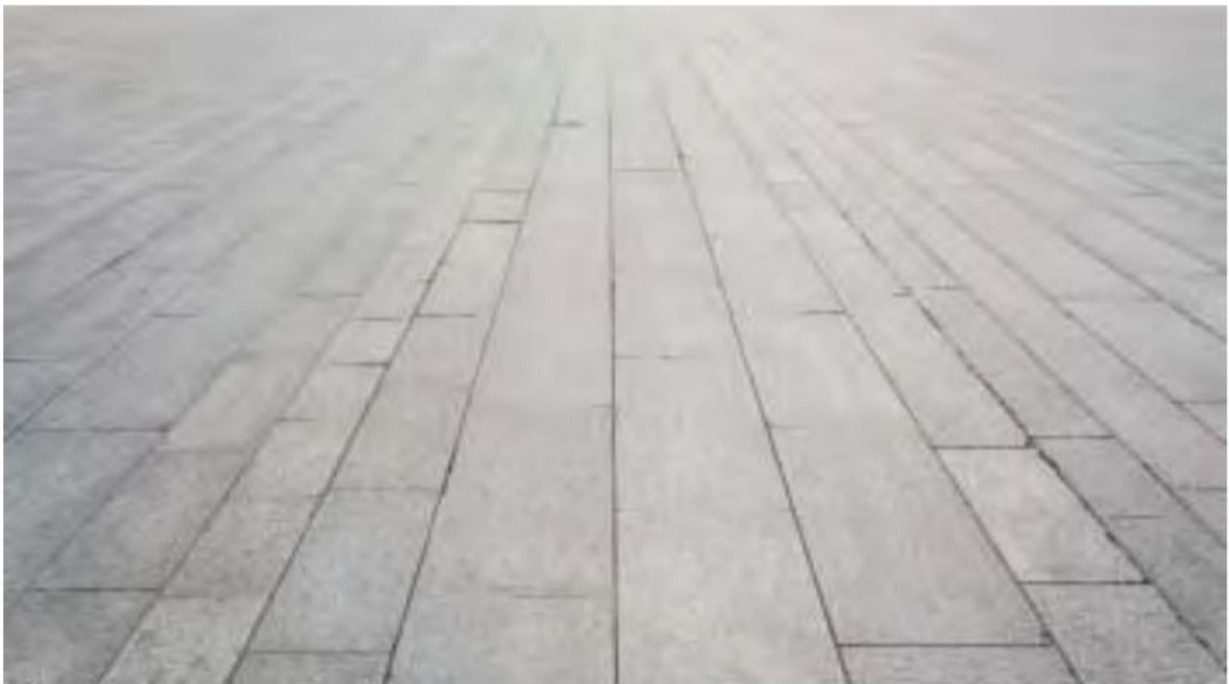
(iii)

The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 AM, at what time will they change simultaneously again?



(iv)

A tile floor is to be made from 10 inch, 12 inch, and 15 inch square tiles. A design is made by alternating rows with different size tiles. The first row uses only 10 inch tiles, the second row uses only 12 inch tiles, and the third row uses only 15 inch tiles. Neglecting the grout seams, what is the shortest length of floor space that can be covered evenly by each row?



KENDRIYA VIDYALAYA AFS, BKT LUCKNOW

SUMMER VACATION HOME WORK 2022

Dear Readers of classes 6 to 10 are assigned to prepare the LIST OF BOOKS written by following Indian 36 authors/ poets and read (if possible)

क्र	भारतीय कवि/लेखक/उपन्यासकार		जन्मदिन/जयंती/पुन्यतिथि			प्रार्थना सभा में प्रस्तुति	
			DOB	DOM	DOY	लेखक/कवि उत्सव	
1	राहत हैंदौरी	कवि	1	जनवरी	1950	जयंती	श्रीया ठाकुर
2	महाश्वेता देवी	कवि	14	जनवरी	1926	जयंती	आयूष
3	जयशंकर प्रसाद	कवि	14	जनवरी	1937	पुन्यतिथि	खुशी
4	शरदचंद्र चट्टोपाध्याय	लेखक	16	जनवरी	1938	पुन्यतिथि	अभिनव सिंह
5	हरवंश राय बच्चन	कवि	18	जनवरी	2003	पुन्यतिथि	भव्या वर्मा
6	वरुण श्रोवर	गीतकार/लेखक	26	जनवरी	1980	जन्मदिन	जतिन यादव
7	जयशंकर प्रसाद	कवि	30	जनवरी	1889	जयंती	संजना यादव
8	माखनलाल चतुर्वेदी	लेखक	30	जनवरी	1968	पुन्यतिथि	शिव पाण्डेय
9	खुशवंत सिंह	उपन्यासकार	2	फरवरी	1915	जयंती	आकषि श्रीवास्तव
10	कुमार विश्वास	कवि	10	फरवरी	1970	जन्मदिन	अविका शर्मा
11	सुभद्रा कुमारी चौहान	कवि	15	फरवरी	1948	पुन्यतिथि	अणिमा गुप्ता
12	मिर्जा गालिब	कवि	15	फरवरी	1869	पुन्यतिथि	समृद्धि सिंह
13	विनायक दमोदर सावरकर	कवि	26	फरवरी	1966	पुन्यतिथि	दिव्य नंदिनी
14	अज्ञेय	उपन्यासकार	7	मार्च	1911	जयंती	श्रीया ठाकुर
15	खुशवंत सिंह	उपन्यासकार	20	मार्च	1999	पुन्यतिथि	आयूष
16	महादेवी वर्मा	कवि	26	मार्च	1907	जयंती	खुशी
17	माखनलाल चतुर्वेदी	लेखक	4	अप्रैल	1889	जयंती	अभिनव सिंह
18	अज्ञेय	उपन्यासकार	4	अप्रैल	1987	पुन्यतिथि	भव्या वर्मा
19	बंकिमचंद्र चट्टोपाध्याय	उपन्यासकार	8	अप्रैल	1894	पुन्यतिथि	जतिन यादव
20	राहुल सांकृतान	लेखक	9	अप्रैल	1893	जयंती	संजना यादव
21	राहुल सांकृतान	लेखक	14	अप्रैल	1963	पुन्यतिथि	शिव पाण्डेय
22	चेतन भगत	उपन्यासकार	22	अप्रैल	1974	जन्मदिन	आकषि श्रीवास्तव
23	रामधारी सिंह दिनकर	कवि	24	अप्रैल	1974	पुन्यतिथि	अविका शर्मा
24	महावीर प्रसाद द्विवेदी	कवि	5	मई	1864	जयंती	समृद्धि सिंह
25	रविंद्र नाथ टैगोर	कवि	7	मई	1861	जयंती	दिव्य नंदिनी
26	आर.के. नारायण	उपन्यासकार	13	मई	2001	पुन्यतिथि	श्रीया ठाकुर
27	रविचन बॉन्ड	उपन्यासकार	19	मई	1934	जन्मदिन	आयूष
28	हजारी प्रसाद द्विवेदी	उपन्यासकार	19	मई	1979	पुन्यतिथि	खुशी
29	सुमित्रानंदन पंत	कवि	20	मई	1900	जयंती	अभिनव सिंह

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डॉ. रंगनाथन रीडर्स क्लब
केन्द्रीय विद्यालय वायुसेना स्थल, बी.के.टी. लखनऊ



क्र	भारतीय कवि/लेखक/उपन्यासकार	जन्मदिन/जयंती/पुन्यतिथि				प्रार्थना सभा में प्रस्तुति	
		DOB	DOM	DOY		लेखक/कवि उत्सव	
30	अंकित फादिया	लेखक	24	मई	1985	जन्मदिन	भव्या वर्मा
31	विनायक दामोदर सावरकर	कवि	28	मई	1883	जयंती	जतिन यादव
32	विक्रम सेठ	उपन्यासकार	20	जून	1952	जन्मदिन	संजना यादव
33	अनीता देसाई	उपन्यासकार	24	जून	1937	जन्मदिन	शिव पाण्डेय
34	बंकिमचंद्र चट्टोपाध्याय	उपन्यासकार	26	जून	1838	जयंती	आरुषि श्रीवास्तव
35	भीष्म साहनी	लेखक	11	जुलाई	2003	पुन्यतिथि	अविका शर्मा
36	महाश्वेता देवी	कवि	28	जुलाई	2016	पुन्यतिथि	अणिमा गुप्ता
37	गुंशी प्रेमचंद	उपन्यासकार	31	जुलाई	1880	जयंती	समृद्धि सिंह
38	मैथली शरण गुप्ता	कवि	3	अगस्त	1886	जयंती	दिव्य नंदिनी
39	रविंद्र नाथ टैगोर	कवि	7	अगस्त	1941	पुन्यतिथि	श्रीया ठाकुर
40	भीष्म साहनी	लेखक	8	अगस्त	1915	जयंती	आयूष
41	राहत इंदौरी	कवि	11	अगस्त	2020	पुन्यतिथि	खुशी
42	सुभद्रा कुमारी चौहान	कवि	16	अगस्त	1904	जयंती	अभिनव सिंह
43	सुधामूर्ति	लेखक	19	अगस्त	1950	जन्मदिन	भव्या वर्मा
44	हजारी प्रसाद द्विवेदी	उपन्यासकार	19	अगस्त	1907	जयंती	जतिन यादव
45	अमृता प्रीतम	कवि	31	अगस्त	1919	जयंती	संजना यादव
46	महादेवी वर्मा	कवि	11	सितम्बर	1987	पुन्यतिथि	शिव पाण्डेय
47	शरदचंद्र चट्टोपाध्याय	लेखक	15	सितम्बर	1876	जयंती	आरुषि श्रीवास्तव
48	रामधारी सिंह दिनकर	कवि	23	सितम्बर	1908	जयंती	अविका शर्मा
49	गुंशी प्रेमचंद	उपन्यासकार	8	अक्टूबर	1936	पुन्यतिथि	अणिमा गुप्ता
50	आर.के. नारायण	उपन्यासकार	10	अक्टूबर	1905	जयंती	समृद्धि सिंह
51	अमीष त्रिपाठी	लेखक	18	अक्टूबर	1974	जन्मदिन	दिव्यनंदिनी
52	अमृता प्रीतम	कवि	31	अक्टूबर	2005	पुन्यतिथि	श्रीया ठाकुर
53	अकंधिती राय	उपन्यासकार	24	नवम्बर	1961	जन्मदिन	आयूष
54	हरवंश राय वच्चन	कवि	27	नवम्बर	1907	जयंती	खुशी
55	मैथली शरण गुप्ता	कवि	12	दिसम्बर	1964	पुन्यतिथि	अभिनव सिंह
56	रामानंद सागर	लेखक	12	दिसम्बर	2005	पुन्यतिथि	भव्या वर्मा
57	महावीर प्रसाद द्विवेदी	कवि	21	दिसम्बर	1938	पुन्यतिथि	जतिन यादव
58	सुमित्रानंदन पंत	कवि	28	दिसम्बर	1977	पुन्यतिथि	संजना यादव
59	रामानंद सागर	लेखक	29	दिसम्बर	1917	जयंती	शिव पाण्डेय

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KENDRIYA VIDYALAYA AFS, BKT, LUCKNOW

SUMMER VACATION HOME WORK

ENGLISH CLASS – X A

(H.W. On file papers)

1. Read any two English story books/ cartoon books/ comics book and write reviews of the books or any 2 stories.
2. Interview your parents / grandparents to find out about their schools when they were of your age which no longer exist/ no longer followed or done. Eg. Leisure time activities, Games, Customs practiced etc. Minimum 10 questions. Make it interesting. Your interview must have a lot of details for the reader to understand.
3. Write a short poem on any topic OR Your any experience which you want to express: (It must be your own creation, do not copy from any source)
4. Read story No. 4, 5, & 6 from your supplementary English book (Foot prints without Feet) and write Summary of each story.
5. Learn Q/Ans and word meaning of all lessons which are completed till now.
6. Make a collage on A4 size papers.

On the state 'Meghalaya'. (Its culture, vegetation, food and traditional dresses)

(Collect slogans, thoughts & pictures from newspapers and magazines etc.)

SUMMER VACATION HOME WORK

CLASS -X

SUBJECT - SCIENCE

Q1. Write symbols of elements and their name given in your textbook (chapter 1 to 4 and learn them)

Q2. Write the name of compounds and their name given in your text book . Identify them into acids bases and salts and learn them .(cha.1 to 4)

Q3. Write law of mass of conservation.

Q4. What is a balanced chemical equation? Why should chemical equations be balanced?

Q5. Write the balanced equation for the following chemical reactions.

- (i) Hydrogen + Chlorine \rightarrow Hydrogen chloride
- (ii) (ii) Barium chloride + Aluminium sulphate \rightarrow Barium sulphate + Aluminium chloride
- (iii) (iii) Sodium + Water \rightarrow Sodium hydroxide + Hydrogen

Q6. Write a balanced chemical equation with state symbols for the following reactions.

- (i) Solutions of barium chloride and sodium sulphate in water react to give insoluble barium sulphate and the solution of sodium chloride.
- (ii) Sodium hydroxide solution (in water) reacts with hydrochloric acid solution (in water) to produce sodium chloride solution and water.

Q7. Why are decomposition reactions called the opposite of combination reactions? Write equations for these reactions.

Q8. What is the difference between displacement and double displacement reactions? Write equations for these reactions.

Q9. Make a working model for science exhibition .

Q.10. Revise ch 1 and ch 6

Q11. Prepare any one Project or activity (click on given link for detail)

(i) For inspire Manak Award

<https://www.inspireawards-dst.gov.in/>

(ii) For National Children Science Congress

<https://www.indiascienceandtechnology.gov.in/programme-schemes/human-resource-and-development/national-children%E2%80%99s-science-congress>

(iii) Information about Vidyarthi Vigyan Manthan

<https://vikaspedia.in/education/policies-and-schemes/vidyarthi-vigyan-manthan-vvm>

(iv) For Jawaharlal Nehru National Science, Mathematics and Environmental Education

<https://jnsmee.ncert.org.in/index.php/theme/subtheme/2>

(v) For National standard examination in Physics

<https://iapt.org.in/?id=2431>

ग्रीष्मकालीन अवकाश कार्य

कक्षा दसवीं विषय हिंदी

- 1 नेताजी सुभाषचंद्र बोस के व्यक्तित्व और कृतित्व पर एक प्रोजेक्ट तैयार कीजिए।
- 2 फेरीवाले हमारे दिन-प्रतिदिन की बहुत-सी जरूरतों को आसान बना देते हैं। फेरीवाले के योगदान और समस्याओं पर एक संपादकीय लेख तैयार कीजिए।
- 3 आपके विद्यालय में शारीरिक रूप से चुनौतीपूर्ण विद्यार्थी है। उनके लिए विद्यालय परिसर और कक्षा-कक्ष में किस तरह प्रावधान किए जाएँ, प्रशासन को इस संदर्भ में पत्र द्वारा सुझाव दीजिए।
- 4 अपनी मनपसंद के किन्हीं दो विषयों पर आकर्षक विज्ञापन तैयार कीजिए।
- 5 वाच्य के भेद उदाहरण सहित लिखिये।
- 6 संज्ञा, सर्वनाम, विशेषण, क्रिया विशेषण, अव्यय के भेद एवं अकर्मक सकर्मक क्रिया उदाहरण सहित लिखिये।
- 7 अलंकार के भेद उदाहरण सहित लिखिये।
- 8 फणीश्वरनाथ रेणु और नागार्जुन की आँचलिक रचनाओं को पढ़िये।

SUMMER VACATION MATHS HOLIDAY HOME WORK

CLASS 10

1. Activity 1- Prove Euclid's Division Lemma using paper cutting and pasting.
2. Activity 2- Prove that parabola open upwards and downwards using coefficient of x^2
3. Activity 3-the consistency of pair of linear equation using it's coefficients and thus finding the conditions of consistency.
4. Complete upto chapter 3 in your class work.
5. Complete 10 questions from chapter 1,2&3.