

KENDRIYA VIDYALAYA I.N.S KALINGA BHEEMUNIPATNAM

AUTUMN BREAK HOME WORK FOR CLASSES I TO XII

CLASS I

Maths

1. Write numbers 1 to 300
2. Write number names 1 to 100

English

Write any 10 names of

1. animals
2. Vegetables
3. flowers

Hindi

- 1) वर्णमाला लिखो
- 2,) नीचे दिए गए अक्षर के बारहकखड़ी लिखो

क, ग, च, द, म

- 3) आ की मात्रा वाले शब्द लिखो ।(10)

EVS

- 1) Write the name of animals and their young ones
- 2) draw the picture of your favourite animal and write 3-5 sentences about it .
- 3) draw or make your family tree .

CLASS II

MATHEMATICS

I. Write and learn the tables from 1 to 10

II. Draw the following shapes also colour them.

1. Square 2. Rectangle 3. Triangle 4. Circle

III. Write the numbers names from 1 to 50.

IV. Write numbers from 50 to 200

Note: - Above given works should be done on A4 sheets

ENGLISH

I. Write any 10 opposite words from the text book.

II. Write any 10 slight words from the text book.

III. Write any 10 slight words from the text book.

IV. Write about your school in 4/5 sentences.

V. Draw an image of the Elephant

Note: - Above given works should be done on A4 sheets

EVS

1. Draw a plant and write it's parts.

2. Describe the seven steps of farming.

hindi

1 दो बार वर्णमाला लिखो।

2 पेज 62 से तीन अक्षर वाले शब्द लिखो ।

CLASS III

MATHEMATICS

- I. Write and learn the tables from 1 to 16.
- II. Make a beautiful clock by using card board.
- III. Make a balance model to measure the weight.
- IV. Draw the different shapes with their names.
- V. Write and learn the units of the Distance, Weights and Liquids.

Note: - Above given works should be done on A4 sheets

English

1. Daily read one page for improvement in reading
2. write any 15 names of anims and its baby names
3. write about extinction of tigers in india.

EVS

1. Draw different parts of a plant saperately and write the food related to them.
2. Paste pictures of differentially abled persons and write their deficiency.

Hindi

1. 1 बार वर्णमाला लिखो।
2. बारहखड़ी लिखो।)10 वर्ण(
3. 10 नाम वाले शब्द लिखो।
4. 10 काम वाले शब्द लिखो।

CLASS IV

ENGLISH

1. Read aloud one page daily from the textbook to improve reading.
2. Write the poem "A Watering rhyme" neatly.
3. Learn and write the given spellings each one 5 times from the lesson
 - i) The Scholar's Mother Tongue
 - ii) A Watering Rhyme
4. Write in your own about 'How you help your parents during holidays' in 50-70 words.

EVS

1. In the map of India locate the states and union territories of India.
2. Learn the names of all the states and union territories of India.
3. Read the lesson 'A River's Tale' and write down the reasons of river water getting polluted.
4. Draw any 5 pictures of birds and name them.

हिंदी

1. बारहखड़ी लिखो।)5 वर्ण(
2. गांधीजी का चित्र बनाकर उनके बारे में लिखो।
- 3 दस संज्ञा शब्द लिखो।

maths

- 1) write 2 to 20 tables
- 2) draw a circle of radius 3 cm and its parts
- 3) make a project - Write list of things available in liquid form, their price, quantity and draw or paste picture of it.
- 4) do the following multiplication
 - a) 124×25
 - b) 256×45
 - c) 136×23 .

CLASS-V

English

1. Read one page daily from your textbook.
2. Formal letter:
Write an application to your Principal for 3 days leave due to illness.
3. Informal letter:
Write a letter to your friend to invite him for your birthday.
4. Write about yourself in 50 – 80 words .
5. Write and learn 2 new words daily with their meaning .

EVS

1. In the map of India locate all the states and union territories.
2. Learn the names of all the states and union territories with their capitals of India.
3. List out atleast five communicable and non-communicable (deficiency diseases) diseases each and write their cause , symptoms and cure .
4. Paste any 5 pictures of scientists and write their name and their inventions.

hindi

- 1 बारहखड़ी लिखो। 20 वर्ण
- 2 अपनी पुस्तक में से 10 संज्ञा शब्द लिखो।
- 3 अपनी पुस्तक में से 10 विशेषण लिखो।
- 4 दो दिन की छुट्टी के लिए अपने विद्यालय की प्राचार्या महोदया को प्रार्थना पत्र लिखो।

maths

- 1) write and learn 2-20 tables .
- 2) find the LCM of the following numbers

i) 12,24

ii) 32,16,18

iii) 15,25,20

3) Draw the following vshapes and also draw how they will look after $1/2$ turn, $1/4$ turn and $1/3$ turn

(rectangle, triangle, square, circle, pentagon,)

4) trace your palm on grid or graph paper and find its area .

5) Do the following multiplication

i) 523×23

ii) 235×56

iii) 658×49

iv) 698×17

v) 432×24

CLASS-VI

HINDI

अपठित गद्यांश- १

लगभग दो सौ वर्ष की गुलामी ने भारत के राष्ट्रीय स्वाभिमान को पैरों से रौंद डाला, हमारी संस्कृति को समाप्त कर दिया, हमारे विश्वास को हिला दिया और हमारे आत्मविश्वास को चकनाचूर कर दिया। किंतु अपने देश से प्यार करने वाले, इसके एक सामान्य संकेत पर प्राण न्योछावर करने वाले दीवानों का अभाव न था। एक आवाज उठी और देखते-ही-देखते राष्ट्र का दबा हुआ आत्माभिमान उन्मत्त हो उठा। इतिहास साक्षी है- जाने और अनजाने सहस्रत्रों देशभक्त स्वतंत्रता की अमानत निधि को पाने के लिए शहीद हो गए।

प्रश्न. भारतवर्ष ने कितने वर्षों की गुलामी झेली है?

प्रश्न. गुलामी ने भारत को क्या हानि पहुँचाई ?

प्रश्न. इस देश की क्या विशेषताएँ रहीं?

मेरे देश का नाम भारत है, जो महाराज दुष्यंत एवं शकुंतला के प्रतापी पुत्र “भरत” के नाम पर रखा गया। पहले इसे “आर्यावर्त” कहा जाता था। इस पावन देश में राम, कृष्ण, महात्मा बुद्ध, वर्धमान महावीर आदि महापुरुषों ने जन्म लिया। इस देश में अशोक और अकबर जैसे प्रतापी सम्राट भी हुए हैं। इस देश के स्वतंत्रता संग्राम में महात्मा गांधी, पंडित जवाहर लाल नेहरू, लोकमान्य तिलक, गोपाल कृष्ण गोखले, लाला लाजपत राय, नेताजी सुभाषचंद्र बोस, सरोजिनी नायडू आदि ने कंधे से कंधा मिलाकर संघर्ष किया।

प्रश्न. भारत का नाम किसके नाम पर रखा गया?

प्रश्न. इस देश को पहले किस नाम से जाना जाता था?

प्रश्न. प्राचीन काल में किन-किन महापुरुषों ने इस देश में जन्म लिया?

प्रश्न. स्वतंत्रता संग्राम में संघर्ष करने वाले प्रमुख नेताओं के नाम बताइए।

संस्कृत

1. निम्नलिखित धातुओं के रूप लट् लकार में लिखो -
वद् , लिख , खाद् , पठ , धाव
2. अकारान्तशब्दरूप ‘राम’ के रूप लिखो और याद करो ।
3. आकारान्त ‘बालिका’ के रूप लिखो और याद करो ।
4. संयुक्तव्यञ्जन कितने होते हैं? नाम लिखो ।
5. संस्कृत में लिङ्ग कितने होते हैं? नाम लिखो ।
6. संस्कृत में विभक्ति कितनी होती है? नाम लिखो ।
7. अकारान्त पुल्लिङ्ग, आकारान्त स्त्रीलिङ्ग, अकारान्त नपुंसक लिङ्ग शब्दों के 5-5 चित्र बनाएं ।

SCIENCE

Electricity and circuits

Fun with magnets

1. Write the question and answers three times and keywords definitions.

ENGLISH

1. Solve the unseen passage from midterm question paper
2. Notice draft a notice for the school notice board informing students about the tree plantation ceremony to be held in your school. Include all details date time venue.
3. Write a letter to the principal requesting her to grant you leave for 4 days as you are suffering from viral fever.
4. Read the lesson fair play learn the spellings and prepare for role play demonstration to be presented in class.
5. Practice one page handwriting everyday.
6. Read story books to narrate a story in the class.
7. Watch news in English.

MATHS

- 1] the distance between the school and a student house is 1km875m. every day she work both ways find the total distance covered by her in six days.
- 2] a vessel has 4 litres and 500ml of curd in how many glasses each of 25ml capacity can it be filled?
- 3] find using distributive property :
a] 728×101 b] 5437×1001 c] 824×25 d] 4275×125 e] 504×35
- 4] the numbers 13 and 31 are prime numbers both these number have some digits 1 and 3. Find such prime numbers up to 100.
- 5] using divisibility tests, determine which of the following numbers are divisible by 11:
a] 5445 b] 10824 c] 7138965 d] 70169308 e] 10000001 f] 901153
- 6] a number is divisibility 12, by what other number will that number be divisible?
- 7] find the LCM of the following number in which are number is the factor of the other.
a] 5,20 b] 6,18 c] 12,48 d] 9,45

social:

1. Write State Capitals of States of India

2. Draw a sketch of your school and locate the following:-

2.1. Principle Room

2.2. Your Classroom

2.3. Playground

2.4. Library

2.5. Some Trees

2.6. Some big Trees

2.7. Drinking Water

3. Map Skills

3.1. Locate on an outline map of India some Archaeological sites

3.1.1. Bhimbetka, Hallur, Paiyampalli, Koldihwa, Chirand, Daojali, Hading

CLASS VII

MATHS -

- SOLVE ALL THE EXAMPLES AND EXERCISES OF RATIONAL NUMBERS IN YOUR HW.
- NAME 5 PARALLELOGRAMS, TRIANGLES, CIRCLES THAT YOU SEE AROUND IN YOUR SURROUNDINGS AND WRITE THE TYPES WHICH THEY BELONG TO AND HOW CAN YOU FIND THE AREAS OF THESE SHAPES IN YOUR HW.

SCIENCE

S NO	LIST OF QUESTIONS	NOTE BOOK
1	HALF YEARLY QUESTION PAPER SOLUTIONS	ACTIVITY NOTE BOOK
2	CCT QUESTION FROM REPRODUCTION IN PLANTS FROM NCERT TEXT BOOK	ACTIVITY NOTE BOOK
3	ACTIVITIES 8.1, 8.2, 8.3 AND 8.4 FROM NCERT TEXT BOOK	ACTIVITY NOTE BOOK
4	EXERCISE SOLUTIONS OF REPRODUCTION IN PLANTS FROM	ACTIVITY NOTE BOOK

	NCERT TEXT BOOK	
5	KEY WORDS FROM REPRODUCTION IN PLANTS	ACTIVITY NOTE BOOK

ENGLISH

4 READING COMPREHENSION PASSAGES WITH ANSWERS.

10 PAGES CURSIVE HAND WRITING.

1 ESSAY ON A FESTIVAL.

1 COMPOSITION ON HOW SPENT MY AUTUMN BREAK.

HINDI:

- 1- दशहरापर्वपर 100 से 150 शब्दोंकाअनुच्छेदलिखें।
- 2- दीपावलीत्योहारकीशुभकामनादेतेहुएअपनेमित्रकोपत्रलिखिए।
- 3- किन्हीपांचपक्षियोंकेचित्रइकट्टाकरकेउनकेबारेमेंलिखो।
- 4- पांचभाववाचकसंज्ञाशब्दलिखकरउनकावाक्यमेंप्रयोगकीजिए।

प्रश्न 5. विद्यालय - पत्रिकाप्रकाशितहोरहीहै।अतःआपअपनीलिखीकोईकविता / कहानी/लेख A4 सीटपरलिखकरकेचित्रसहितलाएऔरविद्यालयखुलतेहीमुझेजमाकरेंगे।

SANSKRIT:

- 1.संस्कृतप्रतिज्ञालिखोंएवंयादकरों | -
- 2.संस्कृतमें 1 से 100 तकगिनतीलिखोंऔरयादकरों |
- 3.निम्नलिखितधातुओंकेरूपलट् ,लङ् ,लृट् लकारमेंलिखों -
वद ,क्रीड ,धाव् ,गम् ,वस् ,पठ ,भू
- 4.संस्कृतकहानीलिखोंऔरयादकरों |
- 5.निम्नलिखितअव्ययोंकावाक्यमेंप्रयोगकरें -

यथा ,तथा ,एव ,च ,बहिः ,अधः ,उपरि ,पुरा ,कुत्र ,सहसा

5. किम्शब्दरूपतीनोंलिंगो (पुल्लिन्ग, स्त्रीलिङ्ग, नपुंसकलिङ्ग) मेंलिखों ।

Social:

1. Write and learn answers of half-yearly examination paper in your H.W note work.
2. Write about 'tsunami' [2004] in A4 SIZE PAPER.
3. Draw the water cycle and write about water cycle in the chart [project work]
4. Learn text book exercises all the chapters done.

CLASS VIII

Maths

- SOLVE ALL EXAMPLES AND EXERCISES OF ALGEBRAIC EXPRESSIONS IN YOUR HW.
- WHAT ARE THE DIFFERENT SOLID SHAPES THAT YOU OBSERVE IN YOUR SURROUNDINGS- NAME ANY 10 OF THEM AND HOW DO YOU THINK YOU CAN FIND ITS AREA IN YOUR HW.

SANSKRIT

- 1.संस्कृतप्रतिज्ञालिखोंएवंयादकरो | -
- 2.संस्कृतमें 1 से 100 तकगिनतीलिखोंऔरयादकरो |
- 3.निम्नलिखितधातुओकेरूपलट् ,लङ् ,लृट् लकारमेंलिखों -
वद ,क्रीड ,धाव् ,गम् ,वस् ,पठ ,भू ,खाद, हस् ,चर्
- 4.अपनीसंस्कृतपुस्तकसेदोचित्रबनाकर 5 - 5 वाक्यलिखों (संस्कृतमें)
5. किम्शब्दरूपतीनोंलिंगो (पुल्लिन्ग, स्त्रीलिङ्ग, नपुंसकलिङ्ग) मेंलिखों |
- 6.संस्कृतकहानीलिखोंऔरयादकरो |

7.संस्कृतभाषाकामहत्त्वविषयपरसंस्कृतभाषामेंअनुच्छेदलिखों |

HINDI

1.एकशिक्षाप्रदकहानीचित्रसहितलिखो |

2. निम्नलिखितविषयोपरनिबंधलिखों-

➤ दशहरा

➤ दीपावली

3.संवादलेखन-दोमित्रोंमेंसंवादलिखोंजिसमेंअपनेजीवन -लक्ष्यकोचुननेकीचर्चाहो |

4.दोदिनकेअवकाशहेतुप्राचार्यजीकोप्रार्थना -पत्रलिखों |

5.दसमुहावरेवाक्यप्रयोगसहितलिखों |

6.दसशब्दोंकेपर्यायवाचीशब्दलिखों |

ENGLISH

4 READING COMPRESSION PASSAGES WITH ANSWERS.

10 PAGES CURSIVE HANDWRITING.

TWO PARAGRAH WRITINGS

TWO LETTERS .

SCIENCE

1. What are the changes you are facing in your mental physical and social self at the age of adolescence?

2. All the exercise questions of the chapter adolescence?

3. Summarize all the completed chapters?

Social studies:

geography-collect all the seeds of wheat ,jowar,bajra,oilseeds and pulses available at market

Civics-1.write summary of ch 1 ,2and3 2. Write all the country capitals which are located in Asia

CLASS IX

PHYSICS:

S NO	LIST OF QUESTIONS	NOTE BOOK
1	PT 2 QUESTION PAPER SOLUTIONS	H. W. NOTE BOOK
2	GRAVITATION NCERT TEXT BOOK EXERCISE 1 – 20 QUESTIONS	H. W. NOTE BOOK

MATHS

- SOLVE ALL EXAMPLES AND EXERCISES OF TRIANGLES AND QUADRILATERALS UPTO MID-POINT THEOREM IN YOUR HW.

ENGLISH

1. Solve the unseen passages from half yearly paper 20 marks.
2. Solve the questions from grammar section 10 marks.
3. Read the lesson "A house is not a home" for presenting a seminar in the class.
4. Practice one page handwriting everyday.
5. Read newspapers watch news in English to develop your vocabulary.

SANSKRIT

- 1.संस्कृतप्रतिज्ञालिखोंएवंयादकरोँ | -
- 2.संस्कृतमें 1 से 100 तकगिनतीलिखोंऔरयादकरोँ |
- 3.निम्नलिखितधातुओकेरूपलट् ,लङ् ,लृट् लकारमेंलिखों -
वद ,क्रीड ,धाव् ,गम् ,वस् ,पठ ,भू ,खाद, हस् ,चर्
- 4.अपनीसंस्कृतपुस्तकसेदोचित्रबनाकर 5 - 5 वाक्यलिखों (संस्कृतमें)
5. किम्शब्दरूपतीनोंलिङ्गो (पुल्लिङ्ग, स्त्रीलिङ्ग, नपुंसकलिङ्ग) मेंलिखों |
- 6.संस्कृतकहानीलिखोंऔरयादकरोँ |
- 7.संस्कृतभाषाकामहत्त्वविषयपरसंस्कृतभाषामेंअनुच्छेदलिखों |

HINDI

1. एक शिक्षा प्रद कहानी चित्र सहित लिखो |
2. निम्न लिखित विषयो पर निबंध लिखो-
 - दशहरा
 - दीपावली
3. संवाद लेखन- दो मित्रों में संवाद लिखो जिसमें अपने जीवन -लक्ष्य को चुनने की चर्चा हो
4. दो दिन के अवकाश हेतु प्राचार्य जी को प्रार्थना -पत्र लिखो |
5. दस मुहावरे वाक्य प्रयोग सहित लिखो |
6. दस शब्दों के पर्यायवाची शब्द लिखो |

Artificial Intelligence

1. What is Artificial Intelligence?
2. What is Computer Vision?
3. What are the different Applications of Artificial Intelligence?
4. Give any three example of Artificial Intelligence Domain?
5. What is Smart City?
6. What is verbal communication? Advantages and disadvantages of verbal communication.
7. Write down the different types of verbal communication. Give an example for each type.
8. What is non-verbal communication?
9. What is visual communication?
10. What is Problem Scoping?
11. What is the 4Ws Problem canvas in AI?
12. What is the AI Project Cycle? What are different Stages ?
13. What is the problem statement template?

14. What is data acquisition?

15. What are the different ways to collect Acquiring Data?

BIOLOGY

1. Exercise and in between questions of the chapter food production and management?

2. Notes of the chapter food production and management?

Social studies:

1) Complete the HW of the all chapters in your HW upto electoral politics

2) activity work :

Map skills : On an outline map of India mark and label th following rivers : Satluj , Damodar , Krishna , Narmada , Tapi, Mahanadi and Brahmaputra

Notes of Nazism and the Rise of Hitler (IM) points in activity

Chemistry

Completed two chapters from Chemistry of class 9th question answers two times from the textbook

CLASS X

ENGLISH

1. SAQ's and LAQ's from the PT-1,PT-2, monthly test question papers for practice.

2. Read the lesson the proportional the book that saved the Earth for seminar presentation.

CHEMISTRY

1.Learn chapters for half yearly and write the intext and exercise questions three times each.

PHYSICS

S NO	LIST OF QUESTIONS	NOTE BOOK
1	PT 2 QUESTION PAPER SOLUTIONS	H. W. NOTE BOOK

2	ELECTRICITY NCERT TEXT BOOK EXERCISE	H. W. NOTE BOOK
3	BLUE TEXT QUESTIONS FROM ELECTRICITY	HW NOTE BOOK

MATHS

- WRITE ALL THE TRIGONOMETRIC FORMULAE (TRIGONOMETRIC RATIOS, TRIGONOMETRIC RATIOS OF SOME SPECIFIC ANGLES, TRIGONOMETRIC IDENTITIES) 5 TIMES IN YOUR HW.
- SOLVE EXERCISE 8.3(RATIONALISED SYLLABUS) IN YOUR HW.

HINDI

प्रश्न 1. लड़कियोंकीघटतीसंख्याकेबारेमेंजनजागरूकतालानेकेउद्देश्यसे 25 से 50 शब्दोंमेंएकविज्ञापनलिखिए |

अथवा

आपएकनयामोबाइलशोरूमखोलनेजारहेहैंकिसीस्थानीयसमाचारपत्रमेंदेनेकेलिए 60 शब्दोंमेंएकविज्ञापनलिखिए |

प्रश्न 2. निम्नलिखितविषयोंपर 120 शब्दोंकाअनुच्छेदलिखिए।

1. आजादीकाअमृतमहोत्सव
2. नईशिक्षानीति 2020

प्रश्न 3. निर्देशानुसारवाक्यपरिवर्तनकीजिए-

लोगखानाखारहेहोंगे | (कर्मवाच्य)

अनेकआतंकवादियोंकोमारागया | (कर्तृवाच्य)

वहनहींदौड़ा | (भाववाचक)

यहपत्रशुभीनेभेजाहोगा | (कर्मवाच्य)

प्रश्न 4. भविष्यमेंआपजोकुछबननाचाहतेहैंउसपदपरनौकरीप्राप्तकरनेकेलिएस्ववृत्तलिखकरलाएँ।

प्रश्न 5. सितंबरमाहकीमासिकपरीक्षाकेव्याकरणकेप्रश्नोंकोहलकरें।

प्रश्न 6. विद्यालय - पत्रिकाप्रकाशितहोरहीहै।अतःआपअपनीलिखीकोईकविता / कहानी/लेखआदि A4 सीटपरलिखकरलाएंऔरविद्यालयखुलतेहीमुझेजमाकरेंगे।

अभ्यासभाग

प्रश्न 1— व्याकरणसेसम्बंधितभागकाअभ्यासकीजिए।

प्रश्न 2— क्षितिजपुस्तककेसमस्तपाठोंकाअभ्यासकीजिए।

प्रश्न 3— कृतिकाकेसमस्तपाठोंकाअभ्यासकीजिए।

Artificial Intelligence

Q1. Payal is stressed due to her career and job. Has some stress in life its benefits or is all stress bad? Explain.

Q2. Write common myths about entrepreneurship.

Q3. How can one enhance their ability to work independently?

Q4. Differentiate between script bot and smart bot

Q5. What are the different steps implemented in bag of words algorithm?

Q6. "A neural network is divided into multiple layers and each layer is further divided into several blocks."

What do you understand by neural network? Explain the different layers of a neural network.

Q7. Implement bag of words algorithm and create Document Vector Table for the following three documents:

Document 1: Priya and Ridhi are sisters.

Document 2: Priya likes coffee and Ridhi likes tea.

Document 3. Priya likes pizza and Ridhi likes burger.

Q8. Differentiate between AI, ML and DL.

Q9. What is text normalization? What are the different steps used in text normalization?

Q10. What is the significance of Stop Words, Special Characters and Numbers in a token obtained by tokenization?

Q11. Explain the different stages in AI project Life cycle.

Q12. What is the difference between stemming and lemmatization?

Q13. Differentiate between a script-bot and a smart-bot.

Q14. Mention some applications of Natural Language Processing

Q15. Does the vocabulary of a corpus remain the same before and after text normalization? Why?

Q16. Explain The 4W's of Problem Scoping?

Q17. What is the significance of A.I project cycle? Also explain in detail about how Data Acquisition is different from data exploration.

Q18. What are Sustainable Development Goals ?

Q19. What are the 4 R's of Sustainable development?

Q20. How Entrepreneurship is helpful to society? Explain.

Q21. Help Samarth define Artificial Intelligence, list the three domains of AI and the data that is used in these domains.

biology

1. Flow chart of all the life processes?
2. Important diagrams of the chapter life process?

Social studies:

Answer the following questions

1. What is meant by the idea of Satyagraha?
2. Explain the reason and effects of Jallianwala Bagh massacre.
3. What is Water Scarcity and what are its main causes?
4. Discuss how Rainwater Harvesting in Semi-Arid regions of Rajasthan is carried out.
5. Write the differences between a Federal Government and a Unitary one
6. What makes India a Federal state.
7. How does the gender discrimination against women happen in our society?
8. State how caste inequalities are still continuing In India.
9. Why is modern currency accepted as a medium of exchange without any use of its own?
10. Give a brief history of Money.
11. In what ways can employment be increased in Urban areas?
12. Why should we worry about Underemployment?
13. What is difference between Unemployment and Underemployment?
14. Explain about any one of the Soils
15. Explain Land degradation. Explain human activities that are mainly responsible for it.

CLASS XI

Computer science:


TYPE C : PROGRAMMING PRACTICE/KNOWLEDGE BASED QUESTIONS

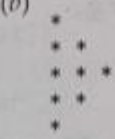
- Write a Python script that asks the user to enter a length in centimetres. If the user enters a negative length, the program should tell the user that the entry is invalid. Otherwise, the program should convert the length to inches and print out the result. There are 2.54 centimetres in an inch.
- A store charges ₹ 120 per item if you buy less than 10 items. If you buy between 10 and 99 items, the cost is ₹ 300 per item. If you buy 100 or more items, the cost is ₹ 20 per item. Write a program that asks the user how many items they are buying and prints the total cost.
- Write a program that reads from user - (i) an hour between 1 to 12 and (ii) number of hours ahead. The program should then print the time after those many hours, e.g.,
Enter hour between 1-12 : 9
How many hours ahead : 4
Time at that time would be : 1 0'clock
- Write a program that asks the user for two numbers and prints **Close** if the numbers are within .001 of each other and **Not close** otherwise.
- A year is a leap year if it is divisible by 4, except that years divisible by 100 are not leap years unless they are also divisible by 400. Write a program that asks the user for a year and prints out whether it is a leap year or not.
- Write a program to input length of three sides of a triangle. Then check if these sides will form a triangle or not. (Rule is : $a + b > c$; $b + c > a$; $c + a > b$)
- Write a short program to input a digit and print it in words.
- Write a short program to check whether square root of a number is prime or not.
- Write a short program to print first n odd numbers in descending order.
- Write a short program to print the following series :
(i) 1 4 7 10 40 (ii) 1 -4 7 -10 -40
- Write a short program to find average of list of numbers entered through keyboard.
- Write a program to input 3 sides of a triangle and print whether it is an equilateral, scalene or isosceles triangle.
- Write a program to take an integer n as an input and check whether it ends with 4 or 8. If it ends with 4, print "ends with 4", if it ends with 8, print "ends with 8", otherwise print "ends with neither".
- Write a program to take N ($N > 20$) as an input from the user. Print numbers from 11 to N . When the number is a multiple of 3, print "Topsy", when it is a multiple of 7, print "Topsy". When it is a multiple of both, print "TopsyTopsy".
- Write a short program to find largest number of a list of numbers entered through keyboard.
- Write a program to input N numbers and then print the second largest number.
- Given a list of integers, write a program to find those which are palindromes. For example, the number 432124 is a palindrome as it reads the same from left to right and from right to left.
- Write a complete Python program to do the following :
(i) read an integer X . (ii) determine the number of digits n in X .
(iii) form an integer Y that has the number of digits n at ten's place and the most significant digit of X at one's place. (iv) Output Y .
(For example, if X is equal to 2134, then Y should be 42 as there are 4 digits and the most significant number is 2).
- Write a Python program to print every integer between 1 and n divisible by m . Also report whether the number that is divisible by m is even or odd.
- Write Python programs to sum the given sequences :
(i) $2 + \frac{3}{4} + \frac{8}{17} + \dots$ (print 7 terms) (ii) $1^2 + 3^2 + 5^2 + \dots + n^2$ (Input n)

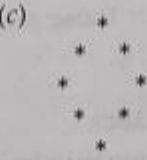
21. Write a Python program to sum the sequence : $1 + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + \dots + \frac{1}{n!}$ (Input n)
22. Write a program to accept the age of n employees and count the number of persons in the following age group : (i) 26 - 35 (ii) 36 - 45 (iii) 46 - 55.

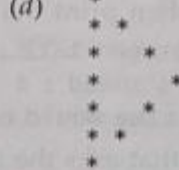
23. Write programs to find the sum of the following series :
- (a) $x - \frac{x^2}{2!} + \frac{x^3}{3!} - \frac{x^4}{4!} + \frac{x^5}{5!} - \frac{x^6}{6!}$ (Input x) (b) $x + \frac{x^2}{2} + \frac{x^3}{3} + \dots + \frac{x^n}{n}$ (Input x and n both)

24. Write programs to print the following shapes :

(a) 

(b) 

(c) 

(d) 

25. Write programs using nested loops to produce the following patterns :

(a)

```
A
A B
A B C
A B C D
A B C D E
A B C D E F
```

(b)

```
A
B B
C C C
D D D D
E E E E E
```

(c)

```
0
2 2
4 4 4
6 6 6 6
8 8 8 8
```

(d)

```
2
4 4
6 6 6
8 8 8 8
```

26. Write a program using nested loops to produce a rectangle of *'s with 6 rows and 20 *'s per row.
27. Given three numbers A , B and C , write a program to write their values in an ascending order. For example, if $A = 12$, $B = 10$, and $C = 15$, your program should print out :
- Smallest number = 10
Next higher number = 12
Highest number = 15
28. Write a Python script to input temperature. Then ask them what units, Celsius or Fahrenheit, the temperature is in. Your program should convert the temperature to the other unit. The conversions are $F = 9/5C + 32$ and $C = 5/9 (F - 32)$.
29. Ask the user to enter a temperature in Celsius. The program should print a message based on the temperature :
- If the temperature is less than -273.15 , print that the temperature is invalid because it is below absolute zero.
 - If it is exactly -273.15 , print that the temperature is absolute 0.
 - If the temperature is between -273.15 and 0 , print that the temperature is below freezing.
 - If it is 0 , print that the temperature is at the freezing point.
 - If it is between 0 and 100 , print that the temperature is in the normal range.
 - If it is 100 , print that the temperature is at the boiling point.
 - If it is above 100 , print that the temperature is above the boiling point.
30. Write a program to display all of the integers from 1 up to and including some integer entered by the user followed by a list of each number's prime factors. Numbers greater than 1 that only have a single prime factor will be marked as prime.
- For example, if the user enters 10 then the output of the program should be :

```

Enter the maximum value to display: 10
1 = 1
2 = 2 (prime)
3 = 3 (prime)
4 = 2x2
5 = 5 (prime)
6 = 2x3
7 = 7 (prime)
8 = 2x2x2
9 = 3x3
10 = 2x5

```

hindi

प्रश्न 1 . अवकाशकेकोईतीनदिनोंकीडायरीलिखकरलाएँ।

प्रश्न 2. दिएगएचित्रकीघटना /स्थितिकेआधारपरदृश्यलेखनलिखिए -



प्रश्न 3. जनसंचारके प्रमुख माध्यमों (विभिन्न माध्यमोंके लिए लेखन पाठ पर आधारित) पर आधारित बीस बहुविकल्पीय प्रश्न तैयार करिए।

प्रश्न 5. अप्रत्याशित किसी एक विषय पर रचनात्मक लेख :-

* भारत की वैज्ञानिक उन्नति

* खेलों में बढ़ता वर्चस्व भारत का

प्रश्न 6. विद्यालय - पत्रिका प्रकाशित हो रही है। अतः आप अपनी लिखी कोई कविता / कहानी / लेख आदि विद्यालय खुलते ही मुझे जमा करेंगे।

प्रश्न 7. परियोजना कार्य तैयार करें।

CHEMISTRY

Chapter 1 to 4 exercises and in text questions two times each.

PHYSICS

S NO	LIST OF IMPORTANT 5 MARK QUESTIONS FOR HALF YEARLY EXAMS
1	DEFINE ESCAPE VELOCITY AND DERIVE AN EQUATION FOR ESCAPE VELOCITY
2	DEFINE ORBITAL VELOCITY AND DERIVE AN EQUATION FOR ORBITAL VELOCITY
3	DEFINE GRAVITATIONAL POTENTIAL. DERIVE AN EQUATION FOR GRAVITATIONAL POTENTIAL.
4	WHAT IS TORQUE? DERIVE THE RELATION BETWEEN TORQUE AND ANGULAR MOMENTUM
	DEFINE ANGULAR MOMENTUM. WRITE ITS SI UNIT.. DERIVE AN EQUATION FOR

5	ANGULAR MOMENTUM
6	STATE AND PROVE LAW OF CONSERVATION OF ANGULAR MOMENTUM. WRITE ANY TWO APPLICATION OF CONSERVATION OF ANGULAR MOMENTUM.
7	DEFINE ELASTIC COLLISIONS. WRITE ANY TWO EXAMPLES. EXPLAIN 1 D ELASTIC COLLISIONS TO GET THE FINAL VELOCITIES OF OBJECTS.
8	DEFINE IN ELASTIC COLLISIONS. GIVE ANY TWO EXAMPLES. EXPLAIN 2 D ELASTIC COLLISIONS TO GET THE FINAL VELOCITIES OF OBJECTS.
9	STATE AND PROVE WORK ENERGY THEOREM. DERIVE AN EQUATION FOR POTENTIAL ENERGY OF A COMPRESSED SPRING.
10	WHAT IS ANGLE OF BANKING? DERIVE AN EQUATION FOR SAFE SPEED OF A VEHICLE MOVING ON BANKED ROAD.
11	STATE AND PROVE LAW CONSERVATION OF LINEAR MOMENTUM WITH THE HELP OF A NEAT AND LABELLED DIAGRAM.
12.	STATE NEWTONS LAWS OF MOTION DERIVE $F = ma$ FROM Newton's second law of motion.
13	State and prove parallelogram law of vectors. The resultant of two equal velocity vectors V AND V IS V . find the angle between the two vectors.
14	What is projectile? Give any two examples. Show that the path of a projectile is a parabola.
15	Derive equations for total flight, Range and maximum height in case of a projectile.
16	SOLUTIONS OF PT 1 QUESTION PAPER

MATHEMATICS

1] find the radian measures corresponding to the following degree measures

i] 250 ii] -470301 iii] 2400 iv] 5200

2] find the angle in radian through which a pendulum swings of its length is 75cm and the tip describes an arc of length

i] 10cm ii] 15cm iii] 21cm

3] find the value of $\sin 7650$

4] find the value of $\operatorname{cosec}(-14100)$

5] find the value of $\tan 19\pi/3$

6] prove that $\sin 2\pi/6 + \cos 2\pi/3 - \tan 2\pi/4 = -1/2$

7] $2\sin 23\pi/4 + 2\cos 2\pi/4 + 2\sec 2\pi/3 = 10$

8] prove that $(\sin 5x + \sin 3x) / (\cos 5x + \cos 3x) = \tan 4x$

9] prove that $\cos^2 2x - \cos^2 6x = \sin 4x \sin 8x$

10] prove that $\cos 4x = 1 - 8\sin^2 x \cos 2x$

Biology

1. Exercise questions of completed chapters?
2. Notes of completed chapters?

CLASS XII

हिन्दी

लिखितभाग

प्रश्न 1- अभिव्यक्ति और माध्यम के पाठ 3,4,5 से पाँच-पाँच बहुविकल्पीय प्रश्न तैयार करके लाएँ।

प्रश्न 2- एक गीत, कविता के बहाने, कवितावली- इन कविताओं का काव्य-सौन्दर्य लिखिए।

प्रश्न 3 - वितान के पढ़ाए गए पाठ से दस बहुविकल्पीय प्रश्न तैयार करें।

प्रश्न 4. विद्यालय - पत्रिका प्रकाशित हो रही है। अतः आप अपनी लिखी कोई कविता / कहानी / लेख A4 सीट में आदि विद्यालय खुलते ही मुझे जमा करेंगे।

अभ्यासभाग

प्रश्न 1- जनसंचार से सम्बंधित भाग का अभ्यास कीजिए।

प्रश्न 2- वितान पुस्तक के समस्त पाठों का अभ्यास कीजिए।

प्रश्न 3- आरोह के समस्त पाठों का अभ्यास कीजिए।

PHYSICAL EDUCATION

Chapter 6

1. Describe the procedure of SAI Khelo India Fitness Test.
2. Write down the procedure to conduct SAI Khelo India Fitness Test in school for 5 to 8 years old students.
4. Write down the purpose of all the tests that form a part of Rikli and Jones Test.
5. Discuss any three tests for testing the endurance and agility of senior citizens.
6. Write down the procedure of Harvard fitness test.

Chapter 7

1. Describe the various effects of exercises on muscular system.
2. Write briefly about the effect of training on a.) Lung Volume b) Heart rate
3. Define and explain the effect of exercise on: a.) Total Volume b) Stroke volume.
4. Describe the changes in endocrine system due to ageing.
5. Name the more common types of fractures and describe them
6. What is a soft tissue injury? Name four types of soft tissue injury and describe it.

CHEMISTRY

1. Chapter 1 in text questions 20 and exercise questions 20 on 21st
21 to rest on 22 /10 /23
2. Chapter 2 in text questions on 23/10/23
Exercise questions on 25/10/23
3. Chapter 2 questions on 25/10/23 and exercise questions 1 to 20 remaining on 26/10/23.
4. Chapter 3 in text questions -27/10/23
Exercise questions 1-20 on 28/10/23
Questions remaining on 29/10/23
Chapter 3 in text questions -30/10/23.
Exercise questions 1-20 31/10/23
Remaining questions on 1/11/23
6. Chapter 4 in text questions on 2/11/23

Exercise questions 1-20 3/11/23

Exercise questions remaining 4/11/23.

PHYSICS

S NO	LIST OF QUESTIONS
1	MONTHLY QUESTION PAPER SOLUTIONS
2	RAY OPTICS 9.7 TO 9.10 = 4 NUMERICALS NCERT TEXT BOOK
3	WAVE OPTICS 10.1 TO 10.4 NCERT TEXT BOOK
4	DUAL NATURE 11.1 TO 11.13 NCERT TEXT BOOK
5	ATOMS 12.3 TO 12.7 NCERT TEXT BOOK
6	NUCLEI 13.3 NUMERICAL FROM NCERT TEXT BOOK

MATHS

1] find the integrate function $(1-x^2) \sqrt{x}$ find the integrate function ax^2+bx+c

3] find the integrate function $2x/1+x^2$

4] find the integrate function $x/9-4x^2$

5] find the integrate function $\tan^2(2x-3)$

6] find the integrate function $\sin x/(1+\cos x)^2$

7] find the integrate function $\sin^3 x \cos^3 x$

8] find the integrate function $\cos^4 2x$

9] find the integrate function $\tan^2 x \sec^2 x$

10] find the integrate function $\sin^3(2x+1)$

ENGLISH

OLVE 2 SAMPLE PAPERS OF BOARD PATTERN

CLASS 11

2 NOTE MAKING PASSAGES

1 DATA BASED PASSAGE

1 READING COMPREHENSION PASSAGE.

TWO SPEECHES

ON DEBATE

TWO POSTERS.

Biology

1. Exercise questions of completed chapters?

2. Notes of completed chapters?

Computer Science:

Q1. Write a user defined function in python that displays the number of lines starting with 'H'in the file para.txt

Q2. Write a function countmy() in python to read the text file "DATA.TXT" and count the number of times "my" occurs in the file. For example if the file DATA.TXT contains-"This is my website. I have diplayed my preference in the CHOICE section "-the countmy() function should display the output as:"my occurs 2 times".

Q3. Write a method in python to read lines from a text file DIARY.TXT and display those lines which start with the alphabets P.

Q4 write a method in python to read lines from a text file MYNOTES.TXT and display those lines which start with alphabets 'K'

Q5 write a program to display all the records in a file along with line/record number.

Q6. consider a binary file employee.dat containing details such as empno:ename:salary(seperator ':') write a python function to display details of those employees who are earning between 20000 and 30000(both values inclusive)

Q7. write a program that copies a text file "source.txt" onto "target.txt" barring the lines starting with @ sign.

Q8. A binary file "Store.dat" has structure [ItemNo, Item_Name, Company,Price]. Write a function AddRecord(<List>) which accepts a List of the record [ItemNo, Item_Name, Company, Price] and appends in the binary file "Store.Dat". Q9. Write a function in Python PUSH(Arr), where Arr is a list of numbers. From this list push all numbers divisible by 5 into a stack implemented by using a list. Display the stack if it has at least one element, otherwise display appropriate error message.

Q10. Julie has created a dictionary containing names and marks as key value pairs of 6 students. Write a program, with separate user defined functions to perform the following operations:

- Push the keys (name of the student) of the dictionary into a stack, where the corresponding value (marks) is greater than 75.
- Pop and display the content of the stack. For example: If the sample content of the dictionary is as follows: R={"OM":76, "JAI":45, "BOB":89, "ALI":65, "ANU":90, "TOM":82} The output from the program should be: TOM ANU BOB OM

Q11. Write definition of a function

1. OddSum(Numbers) to add Odd values in the list Numbers. 2. EvenSum(Numbers) to add Even values in the list Numbers.

Q12. Write a python program to find simple interest using a user defined function with parameters and with return value.

Q12. Write a python program to find simple interest using a user defined function with parameters and with return value.

Q13.

Write a function in Python, Push(KItem), where KItem is a dictionary containing the details of Kitchen items- {Item:price}. The function should push the names of those items in a stack which have price less than 100. Also display the average price of elements pushed into the stack.

For example: If the dictionary contains the following data:

```
{ "Spoons":116, "Knife":50, "Plates":180, "Glass":60 }
```

The stack should contain

Glass

Knife

The output should be:

```
The average price of an item is 55.0
```

Q14. Write a function INDEX_LIST(S), where S is a string. The function returns a list named 'indexList' that stores the indices of all vowels of S.

For example: If S is "Computer", then indexList should be [1,4,6]

Q15. Write a method SHOWLINES() in Python to read lines from text file 'TESTFILE.TXT' and display the lines which do not contain 'ke'.

Example: If the file content is as follows:

An apple a day keeps the doctor away.

We all pray for everyone's safety.

A marked difference will come in our country.

The SHOWLINES() function should display the output as:

We all pray for everyone's safety.

Q16. Explain the use of 'Foreign Key' in a Relational Database. Give an example to support your answer.

Q17. (a) What is the advantage of using a csv file for permanent storage?
(b) Write a Program in Python that defines and calls the following user defined functions:

(i) ADD() - To accept and add data of an item to a CSV file 'furniture.csv'. Each record consists of Fur_id, Description, Price, and Discount.

(ii) COUNTR() - To count the number of records present in 'furniture.csv' whose price is less than 5000.

Q18.

Write a function INDEX_LIST(L), where L is the list of elements passed as argument to the function. The function returns another list named 'indexList' that stores the indices of all Elements of L which has a even unit place digit.

For example:

If L contains [12,4,15,11,9,56]

The indexList will have - [0,1,5]

Q19. Write definition of a method/function **DoubletheOdd()** to add and display twice of odd values from the list of Nums.

For example :

If the Nums contains [25,24,35,20,32,41]

The function should display

Twice of Odd Sum: **202**

Q20. What do you understand by the terms Degree, cardinality of a Relation? Explain with an example.