

INDIA INTERNATIONAL PUBLIC SCHOOL
HOLIDAY HOMEWORK (2024-25)
CLASS – X

SUBJECT – ENGLISH

General instructions –

- Q-1 to be done on ab A4 sheet .
- Attempt all the questions and do them neatly .

Q-1 – Poster making

Make a poster portraying you and point of view on:

“Life is an act of letting go”

You may read the ball poem for your reference.

Q-2 – Travel brochure

• Research about places to visit in Sikkim and prepare a Travel Brochure of any one place describing the location, ways to reach there, weather, best time to visit, hotels, the flora and fauna, food, suggested activities, culture etc.

• It should be handwritten. There should be 4-5 pages, where you may draw or paste some pictures associated with that place. Draw borders around the pictures if they are pasted. Give details about the same.

• There should be interesting and catchy HEADINGS above each detailed paragraph.

• Each picture in the brochure should have a CAPTION (i.e. a Photo caption, also known as outline, a line of text used to explain and elaborate a photograph.)

Q-3 – Read lesson number 1 and 2 , from the book footprints without feet and attempt the exercises given at the back in your notebook.

Q-4 – Interesting stories in about 200 to 250 words each on any two of the following themes.

1. Comedy
2. Tragedy
3. Good vs evil

Q-5 – Write one letter on each of the following categories;

1. Complaint letter
2. Letter to the editor (Suggestion and Complaint based)

Q-6 – PORTFOLIO

• PREPARE A PORTFOLIO WITH THE FOLLOWING.(Prepare a file with A4 size sheets)

1. Introduction
2. My strengths
3. I need to improve on...
4. My achievements
5. I have participated in
6. The books I have read
7. The books I wish to read

Q-7 – PROJECT:

• Make an Art integrated project on Bihar/ Madhya Pradesh describe the culture, tradition, customs, language, dress , festivals, food etc. In a file with the help of pictures

Q-8 - Revise the syllabus covered till the date.

SUBJECT - MATHS

Solve all the questions neatly in step-by-step manner in the fair notebook.

ASSIGNMENT

- Find the HCF and LCM of 75 and 160 by Fundamental theorem of Arithmetic and verify $\text{LCM} \times \text{HCF} = \text{product of two numbers}$.
- Prove $5 + 2\sqrt{3}$ is irrational.
- Find the zeros of the polynomial $6x^2 - 3 - 7x$ and verify the relationship Between the zeros and the coefficients.
- Obtain the zeros of the quadratic polynomial $x^2 - 8x + 4$ and verify the Relation between its zeros and coefficients.
- If the product of the zeros of the polynomial $(ax^2 - 6x - 6)$ is 4, find the value of a.
- If one zero of the polynomial $(a^2 + 9)x^2 + 13x + 6a$ is reciprocal of the other, find the value of a.
- Solve graphically the system of linear equations $4x - 5y + 16 = 0$ and $2x + y - 6 = 0$. Determine the vertices of the triangle formed by these lines and the x-axis.
- Solve the following system of linear equations graphically: $4x - 5y - 20 = 0$ and $3x + 5y - 15 = 0$. Determine the vertices of the triangle formed by the lines representing the above equations and the y-axis.
- Solve for x and y: $0.4x - 1.5y = 6.5$, $0.3x - 0.2y = 0.9$
- Find the values of k for which the system of equations $x - 2y = 3$, $3x + ky = 1$ has a unique solution.
- Find the value of k for which the following pair of linear equations has infinitely many solutions:

$$2x - 3y = 7, (k + 1)x + (1 - 2k)y = (5k - 4) .$$

- Find the value of k for which the given system of equations has infinitely many solutions:

$$x + (k + 1)y = 5, (k + 1)x + 9y + (1 - 8k) = 0.$$

ASSERTION AND REASON BASED QUESTIONS DIRECTION:

In the following questions, a statement of assertion (A) is followed by a statement of Reason (R) .

Mark the correct choice as:

- Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)
- Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A)
- Assertion(A) is true but reason(R) is false.
- Assertion(A) is false but reason(R) is true.
- Assertion: $P(x) = 4x^3 - x^2 + 5x + 3x - 2$ is a polynomial of degree 3.
Reason: The highest power of x in the polynomial P(x) is the degree of the polynomial.
- Assertion : $3 - 2\sqrt{5}$ is one zero of the quadratic polynomial then other zero will be $3 + 2\sqrt{5}$
Reason: Irrational zeros (roots) always occurs in pairs.
- Assertion: The value of k for which the system of equations $3X + KY = 0$, $2x - y = 0$ has unique solution if K is not equal to $-3/2$.
Reason: The system of linear equations $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ gives unique solution if a_1/a_2 is not equal to b_1/b_2 .

10. Find the smallest number which is divisible by both 360 and 657.
11. Find the largest number that will divide 398, 436 and 542 leaving remainders 7, 11, and 15 respectively.
15. Find the largest number which divides 70 and 125 leaving remainder 5 and 8 respectively.

Art Integrated Project:-

Take any three temple from Bihar and Madhya Pradesh and observe thoroughly their construction work that how mathematics is used in their construction. Prepare a project file on it.

CCT based questions

1. An army contingent of 616 is to march behind an army band of 32 member in a parade. The group are to march in the same number of columns. What is the maximum number of columns in which they can march?
2. Two tankers contain 850 L and 680 L of petrol, respectively. Find the maximum capacity of a container which can measure the petrol of either tanker, in exact number of times.
3. Three bells toll at intervals of 9, 12, 15 minutes respectively. If they start tolling together, after what time will they next toll together?
4. The length, breadth, and height of a room are 8 m 50 cm, 6 m 25 cm and 4 m 75 cm respectively. Find the length of the longest rod that can measure the dimensions of the room exactly.
5. Three alarm clocks ring at intervals of 4, 12 and 20 minutes respectively. If they started ringing together, after how much time will they next ring together?

SUBJECT - HINDI

1. पढाए गए पाठ्यक्रम को पढ़े व याद करें तथा लिखकर रिवीजन करें।
2. आप दो स्वरचित कथाएँ कॉपी में लिखें।
3. आपका लक्ष्य क्या है। इस विषय पर एक अनुच्छेद लिखें।
4. प्रेमचंद व कबीर के दस-दस दोहे याद करके एक पोस्टर तैयार करें
5. रामायण व महाभारत आपको कौन सा प्रसंग सबसे अधिक प्रिय है उसका एक सीट पर सचित्र वर्णन करें।
6. रामायण के 30 दोहे याद करें तथा एक सीट पर लिखें।

आर्ट इन्टीग्रेट प्रोजेक्ट

1. आप विहार पर एक फाइल तैयार कीजिए जिसमें वहाँ रहन,सहन, बातवरण , भोजन, नृत्य धरातलीय स्थिति, भौगोलिक स्थिति आदि सभी जानकारी आप सचित्र वर्णन करें। 30 पेज

SUBJECT - SCIENCE

1. SUBJECT ACTIVITY;-

- Make a power point presentation on any one given topic.
- Ppt should be in 12 -15 slides.
- It should be informative, innovative.
- Ppt must have interesting facts with pictures.

Topic ;-Sexual reproduction in plants

Digestive system

Rancidity

Electricity

Types of chemical reactions

2. PORTFOLIO ACTIVITY- Read a newspaper and collect pictures and information's regarding recent development in field of Science (any five) and paste them into a4 size papers.

3. ECOCLUB ACTIVITY –

- Teaching a child about plant life and growth? Well, this simple science experiments a great way to develop their understanding of ecosystem and how plants grow. Using soil, plastic bottles and grass seeds, they'll be able to observe plant growth with their very own eyes. This is also a great way to reuse empty bottles from your recycling at home.
 1. Take the pictures of ecosystem at different- different stages (at least three)
 2. Prepare a sapling of plant on the occasion of World Environment day. Write all information's of sapling with name uses, necessary conditions for healthy growth.



ART INTEGRATION PROJECT :-

Theme: One Earth, One Family, One Future

In our growing and developing world it is very important to think about the resources we are using. We need to adopt sustainable practices to ensure that we are creating a cleaner, greener and bluer future.

EK BHARAT SHRESHTRA BHARAT ACTIVITY-



- DRAW A POSTER ON THE GIVEN THEME
- WRITE AN ESSAY ON BIHAR
- WRITE ALL ABOUT THE CULTURE OF BIHAR,ITS FAMOUS MONUMENTS ,FLORA AND FUNNA
- LEARN PLEDGE ON SWACHTA

PREPARE A DECORATIVE FILE ON THIS PROJECT.

SECTION A(PHYSICS)

WHERE TO DO: CLASSCOPY/NOTECOPY

WHOM TO SUBMIT: SUBJECT TEACHER

WHEN TO SUBMIT: ON THE OPENING DAY OF SCHOOL

APPLICATION BASED (NUMERICAL ANALYSIS): 1. WRITE ALL THE IMPORATNTS FOMULAE OF LIGHT FROM NCERT BOOK

DRAW ALL THE RAY DIAGRAM OF IMAGE FORMATION BY CONVEX AND CONCAVE MIRROR

. SECTION – B: CHEMISTRY

PROJECT BASED



AIM-Prepare Your Own Indicator

- Crush beetroot in a mortar.
- Add sufficient water to obtain the extract.
- Filter the extract by the procedure learnt by you in earlier classes.
- Collect the filtrate to test the substances you may have tasted earlier.
- Arrange four glasses and label them as A, B,C and D.

Pour 2 mL each of lemon juice solution, soda-water, and vinegar and baking soda solution in them

respectively.

- Put 2-3 drops of the beetroot extract in each glass and note the colour change if any.

Write all observations in a4 papers with conclusion.

APPLICATION BASED WORKSHEET- 1. Define the following chemical reactions and give one example of each: a) Displacement reaction b) Precipitation reaction

2. Identify the oxidizing and reducing agent in the following reactions: $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$
3. On heating blue colour powder of copper (II) nitrate in a boiling tube, copper oxide (black), oxygen gas and a brown gas X is formed: i) Identify the brown gas X evolved. ii) Name the type of reaction. iii) Write a balanced chemical equation for it.
4. A small amount of quick lime is added to water in a beaker. a) Name the type of reaction. b) State two observations that you will make in this reaction.
5. Write the differences between combination and decomposition reaction giving examples of each.

SECTION C – BIOLOGY

- Q1. Who developed the "one health joint plan of action"? Explain.
- Q2. What is the full form of UNEP and UNDP?
- Q3. How climate change has become a threat for human and animal life.
- Q4. All plants give out oxygen during day and carbon dioxide during night". Do you agree with this statement? Give reason.
- Q5. While working in the kitchen, you held a hot spoon accidentally and quickly removed your hand away from it. Name and explain the phenomenon associated with it.
- Q6. Observe 5 medicinal plants and 5 animals of economic importance in your surroundings/ locality and write their scientific name and common name.
- Q7. Out of a cow and lion, which has a longer small intestine and why?
- Q8. A Bread in a cupboard for a week developed some greyish-black dots on its surface. What may be these dots? Why do they grow on bread? Give its scientific name.
- Q9. Two green plants are kept separately in oxygen free containers, one in the dark and the other in continuous light. Which one will live longer? Give reasons. Q10. Why do fishes die when taken out of water?
- Q7. What would happen if green plants disappear from earth?
- Q8. Leaves of a healthy potted plant is coated with Vaseline. Will this plant remain healthy for long? Give reasons for your answer.
- Q9. Why is small intestine in herbivores longer than in carnivores?
- Q10. What will happen if mucus is not secreted by the gastric glands?
- Q11. Why does absorption of digested food occur mainly in the small intestine?

❖ Do self-study of chapter "Our Environment".

WHERE TO DO: CLASS COPY/NOTE COPY

WHOM TO SUBMIT: SUBJECT TEACHER

WHEN TO SUBMIT: ON THE OPENING DAY OF SCHOOL

SUBJECT - SOCIAL SCIENCE

Geography

1. On an outline Map of India, show the following:

(i) Mountain and hill ranges -

The Karakoram and the Zaskar

The Patkai Bum

The Jaintia the Vindya range

The Aravali and Cardamom hills

(ii) Peaks – K2, Kanchenjunga written, Nanga Parbat and the Anai Mudi

(iii) Plateau – Chota Nagpur and Malwa (iv) The Indian Desert, Western Ghats and Lakshadweep Island

Note. For every point use separate outline map.

WORKSHEET (LIFE SKILL DEVELOPMENT)

Do the following worksheet in your fair notebook.

1. “Resources are regarded as free gifts of nature.” Discuss.
2. Write a short note on PROJECT TIGER.
3. Write the advantages of Himalayan Yew tree.
4. What is biodiversity? Why is biodiversity important in human life?
5. How is urban development directly related to cost of ecology and empowerment?
6. Write 20 MCQs from each lesson of your text book in your fair notebook.

ART INTEGRATED PROJECT (MULTI DISCIPLINARY PROJECT)

ECONOMICS

Prepare a project on Consumer Awareness after considering all the under mentioned guidelines.

- A. The total length of the project should not be more than 20 written pages of full A4 size sheet.
- B. The project report will be hand written and credit will be awarded to original drawings.

C. Collect information from the following sources:-

Text book, Newspaper, Magazines, Internet.

D. Project must contain pages of content, acknowledgement, introduction, sub-topics with explanation. It must be supported by pictures and diagrams, table work, graphs, collage work, maps etc

E. Cover page must show the topic, related pictures and particulars of the student.

CIVICS

A. Make some cartoons on Indian politics or leaders and explain them in few lines.

B. Collect information about General Election in India 2024. Prepare a list of leaders of different political parties with their symbols. Mention how many seats they got in Lok Sabha.

C. Do the project in A4 size sheet in not more than 10 pages.

HISTORY

Prepare Art integration project on Bihar covering the following topics:-

Historical monuments, culture and ethnicity, contribution in the field of art and literature and other relevant topics.

• SUBJECT - COMPUTER

Fill in the blanks/Very Short Questions

1. Not stating instructions clearly is an example of .
 2. If you have a totally different viewpoint from your team mates on the way a training programme is to be planned, you have a .
 3. Identify the position of the taskbar on the desktop. Is it at the top, bottom, left or right?
 4. What is the name given to the screen that appears after Windows operating system is loaded?
 5. Small images on the desktop are called .
 6. Name the icon that provides access to all the drives, files and folders on a computer .
 7. Name the button to the left of the taskbar .
 8. Picture for the desktop background is called .
 9. How can you delete a folder?
 10. Mention any two features of word processors.
 11. Name the three buttons present to the right of the Title bar.
 12. How can you select entire document using the keyboard?
 13. Name the command used to reverse the last action.
 14. Physical exercise in the form of , to relieve stress as they stabilize mood, improve self-esteem and induce sleep.
 15. An is a person who establishes a business or a venture that generates some value to the customer and proves to be profitable for him.
 16. An economy is called Green economy when it is based on the principles of .
 17. serves as an interface between the user and computer.
 18. Vacationing helps in individuals.
- Short Questions
1. What is communication?
 2. What is writing?
 3. What do you mean by Phrase and write the types of phrases?
 4. What is a sentence?
 5. Write the types of sentences.
 6. Define Part of Speech and explain any two parts of speech.
 7. What is a paragraph and how to construct a paragraph?
 8. Describe the format of article writing.

9. What are the Barriers to Effective Communication?
10. What do you mean by communication barrier?
11. Define any 2 communication barrier.
12. How to handle barriers to communication?
13. Explain any two 7Cs of Communication. (Imp)
14. What do you mean by an Operating System?
15. write the types of an Operating system.
16. Mention any three functions of operating system.
17. Name any three mobile operating systems and computer operating systems.
18. Define any 2 types of an operating system.
19. What do you mean by File System?
20. How to create a folder and rename it?
21. Mention any one way in which can create a new folder.
22. Define following
 - a) Icon
 - b) Task bar
 - c) Recycle bin
23. What are the steps to permanent delete your files from computer?
24. How to restore Files/Folders from recycle bin?
25. What is the difference between moving and copying a folder?
26. Differentiate between file and folder.
27. What is the possible cause of slowing down of computer?
28. What general precautions should you take while cleaning the computer components?
29. List some of the maintenance activities for the computer system.
30. Define Computer Virus.
31. How to prevent virus infection?
32. What are the common signs of a virus attack?
33. What is the use of antivirus software? Name any two commonly used anti-virus software.
34. What are the steps to removing temporary files from the computer?
35. What do you mean by Word Processor?

36. Write the application names comes in Apache OpenOffice Package.
37. Explain the components of OpenOffice Writer Window.
38. Write Keyboard shortcuts for the following commands:
 - a) New
 - b) Open
 - c) Save
 - d) Cut
 - e) Copy
 - f) Paste
 - g) Bold
 - h) Italic
 - i) Underline
 - j) Find
 - k) Replace
 - l) Go to
 - m) Undo
 - n) Redo
 - o) Spelling & Grammar check
39. What is the difference between Save and Save As options of File menu?
40. Differentiate Delete and Backspace.
41. Define change case.
42. How many origins can have stress causal?
43. Define any two stress casual agents.
44. What is the importance of stress management?
45. Define any three Stress Management Techniques.
46. What are Importance of the Ability to Work Independently?
47. How to Enhancing Ability to Work Independently?
48. What do you mean by Entrepreneurship development?
49. What are the objectives of Entrepreneurship development?
50. Define any three Initiatives for Entrepreneurship Development.

51. Write some positive impact on society by Entrepreneurship.
52. Define any three types of Entrepreneurship.
53. Write some functions of an entrepreneur.
54. Define Role of Entrepreneurs in Economic Development.
55. What are the Importance of Entrepreneurs?
56. What are the myths about Entrepreneurship? Explain any two
57. What are the advantages and disadvantages of Entrepreneurship?
58. List down any four factors causing ecological imbalance.
59. What do you mean by sustainable development?
60. What are the main sectors of Green Skills? Define any two
61. What do you mean by Green Economy?
62. Who are the Stakeholders of Green Economy?
63. What are Role of Government and Private agencies in Greening Economy.