

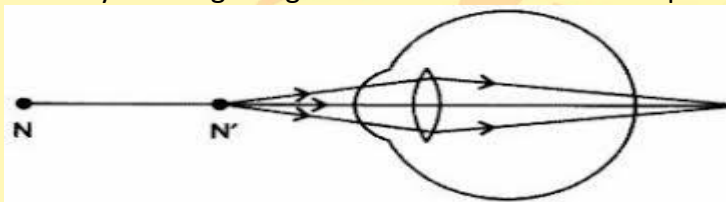


VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

UNIT TEST II 2024 HOME ASSIGNMENT CLASS: X PHYSICS

1. Give reasons for the following :
 - (a) Colour of the clear sky is blue.
 - (b) The sun can be seen about two minutes before actual sunrise.
 - (c) We cannot see an object clearly if it is placed very close to the eyes.
2. A person having a myopic eye used the concave lens of focal length 50cm. What is the power of the lens?
3. Define "least distance of distinct vision".
4. How does the eye adjust itself to deal with light of varying intensity? When is a person said to have developed cataract in his eye? How is the vision of a person having cataract restored?
5. What are the common defects of vision that can be corrected by the use of suitable eyeglasses or spectacles?
6. What is atmospheric refraction? Use this phenomenon to explain the following natural events.
 - (a) Twinkling of stars
 - (b) Advanced sun-rise and delayed sun-set.
 - (c) Draw diagram to illustrate your answers.
7. A person uses convex lens spectacles. What vision defect does he have? Draw a diagram
 - (i) to show the defective eye
 - (ii) to show the correction with the lens.
8. Explain the angle of prism.
9. A 14-year old student is not able to see clearly the questions written on the blackboard placed at a distance of 5 m from him.
 - (a) Name the defect of vision he is suffering from.
 - (b) With the help of labelled ray diagrams show how this defect can be corrected.
 - (c) Name the type of lens used to correct this defect.
10. Study the diagram given below and answer the questions that follow it:



- a) Which defect of vision is represented in this case? Give reason for your answer.
 - (b) What could be the two causes of this defect?
 - (c) With the help of a diagram show how this defect can be corrected by the use of a suitable lens.
11. Draw a ray diagram to show the refraction of light through a glass prism. Mark on it
 - (a) the incident ray.
 - (b) the emergent ray and
 - (c) the angle of deviation.
 12. What is myopia (near-sightedness)? Draw a ray diagram to show how it can be corrected using a lens.
 13. What is hypermetropia (far-sightedness)? Draw a ray diagram to show how this defect can be corrected using a lens.
 14. What is meant by scattering of light? Use this phenomenon to explain why the clear sky appears blue or the sun appears reddish at sunrise.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School

PRAYAGRAJ

15. Describe an activity to show that the colours of white light split by a glass prism can be recombined to get white light by another identical glass prism. Also draw ray diagram to show the recombination of the spectrum of white light.





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

HOME ASSIGNMENT 2024-25 CLASS-X SUBJECT-Computer

A. Multiple Choice Questions

1. Which function is used to read formatted input in C?
a) scanf b) printf c) get d) puts
2. How do you declare an integer array of 10 elements?
a) int arr[10]; b) array int[10]; c) int[10] arr; d) arr int[10];
3. What is the index of the last element in an array of size 5?
a) 5 b) 4 c) 6 d) 0
4. Which loop ensures that the loop body is executed at least once?
a) for loop b) while loop c) do-while loop d) nested loop
5. What does the continue statement do in a loop?
a) Exits the loop b) Skips to the next iteration
c) Exits the program d) Skips the entire loop body
6. Which of the following is a conditional statement?
a) for b) if c) array d) function
7. What keyword is used to define a constant value?
a) final b) const c) constant d) define
8. Which statement is used to stop a loop immediately?
a) exit b) break c) continue d) stop
9. What does the following code output?

```
int arr[3] = { 1, 2, 3 };  
printf("%d", arr[1]);
```


a) 1 b) 2 c) 3 d) 0
10. Which of these is not a type of loop in C?
a) for b) while c) do-while d) repeat



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

B. Fill in the Blanks:

1. The printf function in C is used for ____.
2. An array is a collection of ____ elements.
3. The if statement is an example of a ____ statement.
4. The size of an integer array with 10 elements is ____ bytes (assuming int is 4 bytes).
5. The loop that repeats a set number of times is called a ____ loop.

C. True/False

1. An array can store elements of different data types.
2. The else part of an if statement is optional.
3. In C, array indices start at 1.
4. The do-while loop checks the condition before executing the loop body.
5. The break statement exits only from loops, not from switch cases.

D. Very Short Answer

1. What is a variable in C?
2. Define an array.
3. What is a conditional statement?
4. How do you declare a two-dimensional array in C?
5. Explain the purpose of the else statement.
6. What is the syntax of a for loop?
7. Give an example of a control statement.
8. What is the purpose of the switch statement?
9. How do you initialize an array?
10. What does the return statement do in a function?

E. Short Answer type questions:

1. Describe how arrays are stored in memory.
2. Explain the difference between while and do-while loops.
3. How do you pass an array to a function in C?
4. Write a short code snippet to demonstrate the use of the break statement.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School

PRAYAGRAJ

6. Describe the purpose and use of the continue statement.
7. How do you define a constant value in C?
8. What are multi-dimensional arrays and how are they useful?
9. Explain how the for loop works with an example.
10. Write a C code to initialize and print an array of 5 integers.
11. Discuss the use of logical operators in conditional statements.
12. How can you use arrays to store strings in C?

Long Answer Type Questions:

1. Explain in detail the various types of loops in C with examples.
2. Describe arrays in C, including declaration, initialization, and accessing elements.
3. Discuss the concept of conditional statements in C and their importance in programming.
4. Write a detailed explanation of the control statements in C, providing examples of each.
5. How do you work with multi-dimensional arrays in C? Provide a code example.
6. Explain the use of functions in C, how to pass arrays to functions, and return values from functions.
7. Explain the syntax and usage of the switch statement in C. Provide an example Program



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

HOME ASSIGNMENT 2024-25

CLASS-X

SUBJECT- SOCIAL STUDIES

**LEARN AND SOLVE THE ASSIGNMENT IN YOUR ASSIGNMENT COPY
AND PRACTISE THE SIMILAR QUESTIONS**

(1) Learn and write the following define the terms-

1. Harijan
2. Boycott
3. Picketing
4. Dock
5. Swadeshi
6. Martial law
7. Indentured labour
8. Gorilla war
9. Khalifa
10. Begaar

(2) Learn and write the following -

- Q1. Write a short note on Jallianwala Bagh Massacre.
- Q2 .What was Rowlatt Act?
- Q3. Why and who started Khilafat Movement?
- Q4. Who wrote the book Hind Swaraj? What has been declared in it?
- Q5. Why many within the Congress were concerned about the proposals of NonCooperation Movement?
- Q6. Explain the idea of Satyagrah .
- Q7. Explain the effects of non- cooperation movement on the economic front?
- Q8. Why did Mahatma Gandhi decided to withdraw the Non-Cooperation Movement?





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School

PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

Q9. What was Inland Emigration Act?

Q10. Who formed the Swaraj Party and Why?

Q11. Which two factors shaped Indian politics towards the late 1920s?

Q12. Why Gandhiji relaunched Civil Disobedience movement?

Q13. Describe the role of participation of-

a. Rich peasants

b. Poor peasants

c. Working class in civil disobedience movement..

Q14. How was the Non - cooperation movement different from the civil disobedience movement?

Q15. Elaborate the participation of women in civil disobedience movement.

Q16. How did people belonging to different communities, region or language develop a sense of collective belongingness?

(3) Map work-

On the Physical map of World mark the Countries involved in WORLD WAR 1.





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

HOME ASSIGNMENT 2024-25

CLASS- X

SUBJECT-HINDI

*निम्नलिखित लेखकों एवं कवियों की जीवनी लिखिए-

जयशंकर प्रसाद जी,
पदुमलाल पुन्नालाल बख्शी जी ,
रसखान जी
तुलसीदास जी
बिहारीलाल जी,
सुमित्रानंदन पंत जी

*'अग्रपूजा' खण्डकाव्य का कथासार लिखिए।

'अग्रपूजा' खण्डकाव्य के आधार पर श्री कृष्ण जी का चरित्र-चित्रण लिखिए।

* निबंध-

स्वास्थ्य और शिक्षा

विद्यार्थी जीवन में अनुशासन का महत्व

मेरे प्रिय लेखक

मेरा भारत महान



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

WORKSHEET-1
HOME ASSIGNMENT-2024
CLASS-X
SUBJECT-HOME SCIENCE

Dear students, learn this assignment and write it in your assignment copy

Definite answer type questions:

1. What are the main heads of expenditure of a family?
2. Write any two important steps of a budget.
3. Who is Engel?
4. Write any one problem of budgeting in India.
5. What is the most important ingredients of budget?

Very short qanswer type questions:

1. What is a family budget?
2. What is a balanced budget?
3. Name the main items in a budget?
4. State Engel's law.
5. Name advantages of budgeting to a household.

Short answer type questions:

1. What is the importance of household budgeting?
2. Explain Engel's Law.
3. What are the problems faced by a house wife in budgeting?
4. Explain various steps in budgeting.

Long answer type questions:

1. What are the basic principles of Family budget? Give the list of the primary and secondary items of the Family budget.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

2. Prepare a budget for a family consisting of husband and wife and two children of 10 and 8 years, the elder being a male child.





VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

UNIT TEST II 2024 HOME ASSIGNMENT- I CLASS: X MATHEMATICS

Note: First practice the chapters of Unit Test II, then solve the Home Assignment.

- Q1. A rectangle of area 105 cm^2 has its length equal to $x \text{ cm}$. Write down its breadth in terms of x . Given that the perimeter is 44 cm , write down an equation in x and solve it to determine the dimensions of the rectangle.
- Q2. The lengths of the parallel sides of a trapezium are $(x + 9) \text{ cm}$ and $(2x - 3) \text{ cm}$ and the distance between them is $(x + 4) \text{ cm}$. If its area is 540 cm^2 , find x .
- Q3. If the sum of two smaller sides of a right-angled triangle is 17 cm and the perimeter is 30 cm , then find the area of the triangle.
- Q4. If the roots of the equation $x^2 + px + q = 0$ are double in value to the roots of the equation $2x^2 - 5x - 3 = 0$, then find the values of p and q .
- Q5. The sum of a number and its reciprocal is $10/3$, find the number (s).
- Q6. If 1 is a root of the equations $ay^2 + ay + 3 = 0$ and $y^2 + y + b = 0$, then find the value of ab .
- Q7. Solve the following quadratic equation for x : $4\sqrt{3}x^2 + 5x - 2\sqrt{3} = 0$
- Q8. If $x = 3$ is one root of the quadratic equation $x^2 - 2kx - 6 = 0$, then find the value of k .
- Q9. Find the sum of the first 22 terms of the A.P.: $8, 3, -2, \dots$
- Q10. How many terms of the A.P. : $24, 21, 18, \dots$ must be taken so that their sum is 78 ?
- Q11. Find the sum of 28 terms of an A.P. whose n^{th} term is $8n - 5$.
- Q12. Find the sum of first 12 natural numbers each of which is a multiple of 7 .
- Q13. Find the sum of first 51 terms of an A.P. whose 2^{nd} and 3^{rd} terms are 14 and 18 respectively.
- Q14. The sum of first 7 terms of an A.P is 49 and that of first 17 terms of it is 289 . Find the sum of first n terms.
- Q15. The first term of an A.P is 5 , the last term is 45 and the sum of its terms is 1000 . Find the number of terms and the common difference of the A.P.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

UNIT TEST II 2024-25 HOME ASSIGNMENT-1 CLASS: X ENGLISH

Q.1 Read the following passages and answer the questions that are given below:

- a) He saw his two brothersmaddened him.
- 'He' here refers to
 - Young seagull's mother was standing on
 - The sight of food maddened him because.....
 - The word hump here means
 - His father was smoothing his feathers on.....
- b) Suddenly I came out of the clouds and saw I wanted to say 'Thank you'.
- As the pilot came out of the clouds ha saw
 - The woman at the control tower confirmed that
 - He wanted to thank the pilot for.....
 - The pilot of old Dakota inquired about the other pilot as
 - The antonym of 'straight' is

Q.2 Answer the following questions:

- Why did the writer follow the pilot of another aeroplane? ‘
- What made the woman in the control centre look at the narrator strangely?
- Why does the narrator say, “I landed and was not sorry to walk away from the old Dakota...”?
- “The sight of the food maddened him.” What does this suggest? What compelled the young seagull to finally fly?
- How did the writer get out of the storm in the night to land safely?
- Why was the writer happy when he decided to fly in the night?
- “They were beckoning to him, calling shrilly.” Why did the seagull's father and mother threaten him and cajole him to fly?
- Who do you think helped the narrator to reach safely? Discuss this among yourselves and give reasons for your answer.
- Why does the narrator say, “I landed and was not sorry to walk away with the old Dakota...”?
- What did the pilot see inside the black clouds?

Q.3 Change the following into their Affirmative forms:

- He does not speak English.
- Mohan did not live in Agra.
- They did not come here.
- We do not sing in the classroom.
- She does not get up early in the morning.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School
PRAYAGRAJ

Elgin Road Civil Lines Prayagraj

Mob.: 9598050238

Q.4 Change the following into their Interrogative forms:

- i) I saw a dog in the street.
- ii) He worked hard at his studies.
- iii) He went away.
- iv) Mohan plays cricket.
- v) Tagore was a great poet.

Q.5 Fill in the blanks with the correct form of 'Auxiliary Verbs given in the brackets in the following sentences:

- i) She must received the mark sheet by now. (has, have)
- ii) You not going to school today. (are, did, have)
- iii) She not help her friend in difficulty. (does, do, did)
- iv) Who standing outside? (is, are, has)
- v) It was a winter night. We sitting round the fire. (was, were)

Q.6 Change the following from Active Voice into Passive Voice

- i) Ram writes a letter.
- ii) Ram is writing a letter.
- iii) Ram has written a letter.
- iv) Did Ram write a letter?
- v) Ram was writing a letter.

Q.7 Fill in the blanks with the correct prepositions:

1. She arrived ___ the airport ___ 7 PM.
2. The cat is hiding ___ the table.
3. We walked ___ the bridge to get to the other side.
4. He has been living ___ this city ___ five years.
5. She will meet us ___ the park ___ noon.

Q.8 Complete the sentences with the correct form of the verb given in parentheses:

1. She ___ (run) to the store yesterday.
2. They ___ (eat) dinner when the phone ___ (ring).
3. By this time tomorrow, I ___ (finish) my homework.
4. The children ___ (play) outside for two hours.
5. He always ___ (forget) his keys at home.



VASHISTH VATSALYA PUBLIC SCHOOL

An English Medium Co-Educational School

PRAYAGRAJ

Q.9 Fill in the blanks with the correct articles (a, an, the):

1. ___ elephant is the largest land animal.
2. She wants to buy ___ new car.
3. ___ sun rises in the east.
4. I saw ___ eagle flying in the sky.
5. Can you pass me ___ salt, please?

Q.10 Write an essay on 'My Best Friend'.

Q.11 You are an active member of the Animals Lovers' Club of your school which works for preventing cruelty to animals. Write an article, in 150 words, for your school magazine emphasizing the need to co-exist peacefully with animals. You are Khushi / Rahul of Vashisth Vatsalya Public School, Prayagraj.

