

CLASS-X
HOLIDAY HOMEWORK

ENGLISH

1. Fill in the blanks with the most suitable word.

Since the beginning of human existence, people (a) _____ over the world have expressed their emotions and ideas (b) _____ the medium of dance. The word 'folk' means people. Folk dances express the moods and feelings of (c) _____ common people. Different regions (d) _____ India have their own dances. (e) _____ dance is accompanied by music and songs of the region to (f) _____ it belongs.

2. The underlined words in the following passage have not been used appropriately. Replace them with the correct word.

Going up and down from one floor to another in a big mall can be (a) tired. To make things easier, most of the big malls have special stairs-stairs that move. These moving stairs are called (b) escalate. When you step on to a moving stair, the steps (c) magic appear from under the ground. They take you up to the top, then (d) disappeared again. Where do they go? The stairs are (e) actual part of a huge belt that winds around two wheels. The steps are upright when you (f) riding on them. But they flatten out when they go round the wheels.

3. Read the following dialogue and complete the report.

Doctor : How are you feeling now?

Raghu : Much better, sir.

Doctor : Are you taking the medicines regularly?

Raghu : yes, sir.

The doctor asked Raghu (a) _____. Raghu replied that (b) _____ much better. The doctor further asked Raghu (c) _____ the medicines regularly. Raghu replied in the affirmative.

4. Complete the following passage with the correct passive forms of the verbs

It (a) _____ (decide) to construct a number of flyovers at main intersections in the capital to ease the traffic flow. It (b) _____ (hope) that the problem of traffic jams at these intersections (c) _____ (solve) to a great extent.

5. Complete the dialogue in the best possible way.

Neha: Your watch is exclusive. Please tell me (a) _____

Nidhi: I bought it from a showroom (b) _____

Neha: Will you tell me (c) _____

Nidhi: Only five hundred rupees.

6. Complete the following sentences using appropriate verb forms.

Rahul -----1----- (elect) captain of the school team two years ago. He -----2----- (win) several trophies since then. Yesterday, however, he -----3----- (play) a poor game. I am sure that he --- -----4----- (regain) his form soon.

7. Complete the following sentences using an appropriate tense form.

1. If I had the money now, I buy a car. (will / would)

2. If you the 10 o'clock train, you could be in Mumbai by evening. (catch / caught)

3. If she English, she could get a better job. (speaks / spoke)

4. If I knew that you were coming, I buy a chicken. (will / would)

5. Eleven o'clock – it is time you to bed. (go / went)

6. I wish I more money. (have / had)

7. I would rather you home now. (go / went)
8. I if you were free this evening. (wonder / wondered)
9. After he finished his exams, he on a foreign tour. (went / had gone)
10. If I had gone to university, I medicine. (would study / will study / would have studied)

8. Complete the following sentences using an appropriate verb form.

1. We ----- waiting here since morning.
2. I ----- Julie yesterday.
3. Shyam ----- from Switzerland last week.
4. See that you ----- on time.
5. Susie will come only if you ----- her.
6. I ----- to Australia recently.
7. The doctors concluded that the woman -----died six hours ago.
8. I ----- waiting for his call since morning.
9. The train ----- by the time we reached the station.
10. I ----- the newspaper every morning.

9. Complete the following sentences using the correct form of the verb.

1. I ----- (finish) cooking before the lights ----- (go) out.
2. The patient ----- (die) before the doctor ----- (arrive).
3. I ----- (boil) the milk before adding tea and sugar to it.
4. He ----- (wash) my shirt before he ----- (iron) it.
5. The farmers ----- (sow) the seeds after they ----- (plough) their fields.
6. I ----- (ask) my friend what film he ----- (see).
7. The farmers ----- (finish) reaping wheat before the storm ----- (come).
8. He ----- (pay) off his debts before he ----- (die).
9. The union leaders ----- (call) off the strike before the labour minister ----- (intervene).
10. The sun ----- (set) before the travelers ----- (reach) their destination.

Learn these verb forms:

Base	Past Tense	Past Participle	Base	Past Tense	Past participle
Say	said	said	Make	Made	made
Go	went	gone	take	took	taken
come	came	come	see	saw	seen
know	knew	known	get	got	Gotten
give	gave	given	find	found	found
think	thought	thought	tell	told	told
become	became	become	show	showed	shown
Leave	left	left	feel	felt	felt
begin	began	begun	hold	held	held
keep	kept	kept	write	wrote	written
hear	heard	heard	mean	meant	Meant
meet	met	met	run	ran	run
speak	spoke	spoken	Pay	paid	paid
lie	lay	lain	lead	led	led
read	read	read	grow	grew	grown
fall	fell	fallen	Send	sent	sent
build	built	built	break	broke	broken
draw	drew	drawn	rise	rose	rosen

10. Fill in the blanks using suitable words from the box. There are two extra words.

When people speak of pollution, they generally mean pesticides, acid rain, and chemicals (1)..... into rivers. They rarely allude to noise which proved to be a major source of pollution. As a result, governments have done their best to (2)it. They have built barriers to protect houses from the sound of traffic and have also (3) radios in public places and issued laws against people who disturb others at night. Some (4) argue that it is not noise but music. This is true, but it is extremely (5) That permanent music in someone's ears prevents any useful mental activity. Moreover, more and more people are having (6) troubles at an early age. There is no doubt, (7), that the excessive use of modern machines is responsible for people's deafness.

11. Circle the correct option.

We can see that there has been a huge price to pay for the economic (develop-developing-development) that rich countries have achieved. (because- therefore- that's why) to reach this standard of living, these countries have used a lot of natural resources and polluted the (atmosphere-ground- water). Now developing countries are trying to catch up and it seems that economic growth in countries like China or India, with their huge populations, (had to-must- might) also have a serious (affect- effect-affection) on the environment. But can we really say that poorer countries should stop developing? Obviously, that wouldn't be realistic, or fair. Of course, if we want to be more (environment- environmental- environmentally) friendly we can recycle or drive cars that pollute a bit less, or even use fewer plastic bags.

12. Put the bracketed words in the correct tense or form

Many kids start smoking and believe they can stop every time they want to but in a short time they become (addict)..... to smoke and nicotine. Although, it is illegal to sell cigarettes to anyone under 16, the existing law is not being (apply) Everybody knows that smoking is dangerous and (cause/probability) lung cancer, heart attacks, bronchitis and more serious diseases but young people keep on (smoke)..... Most of the European Governments (ban)..... smoking in enclosed public places because even (non/smoke) can be at risk from what is called passive smoking. If you get caught smoking in a restaurant or pub in Dublin, for example, (obligation in the future/pay) a fine of €2,000. So, it's just not worth the risk!

13. Read the novel Helen Keller and underline the answers for the questions given in box in each page.

HINDI

- 1 – रस विषय के भेदों एवं स्थाई भावों का एक मॉडल बनाइए ।
- 2 – पाठ 3 (कृतिका) के आधार पर अपनी यात्रा का यात्रा वृतांत लिखिए एवं चित्र चिपकाइए ।
- 3 – दिए गए विषयों पर विज्ञापन तैयार कीजिए । (चार्ट पर)
 - स्वच्छ भारत अभियान
 - विद्यालय का खेल दिवस
- 4- कक्षा कार्य की पुनरावृत्ति कीजिए ।

MATHS

I. Solve the following questions (Make a separate copy) :

1. Prove that \sqrt{p} is irrational, where p is a positive prime number.
2. Find the largest number that will divide 398, 436 and 542 leaving remainders 7, 11 and 15 respectively.
3. Using Euclid's division algorithm find if the numbers 847 and 2160 are coprimes or not ?

4. Show that for odd positive integer to be perfect square, it should be of the form $8k + 1$.
5. Prove that the square of any positive integer of the form $5m+1$ will leave a remainder 1 when divided by 5 for some integer m .
6. If HCF of 152 and 272 is expressible in the form $272 X 8 + 152x$, then find x .
7. Show that only one of the numbers n , $n + 2$, and $n + 4$ is divisible by 3.
8. 4 Bells toll together at 9:00 am. They toll after 7, 8, 11 and 12 seconds respectively. How many times will they toll together again in the next three hours?
9. Find the largest number which divides 245 and 1029 leaving remainder 5 in each case.
10. Prove that $\sqrt{7}$ is an irrational number.
11. Show that $3 - 4\sqrt{5}$ is an irrational number.
12. If p and q are the zeroes of the quadratic polynomial $f(x) = ax^2 + bx + c$, then evaluate:
13. $p - q$ b) $\frac{1}{p} - \frac{1}{q}$ c) $\frac{1}{p} + \frac{1}{q} - 2pq$ d) $p^2q + q^2p$ e) $p^4 + q^4$
14. Find the zeroes of the polynomial $9t^2 - 6t + 1$ and verify the relationship between the zeroes and the coefficients.
15. If p and q are the zeroes of the polynomial $2x^2 + 5x + k$, find the value of k such that $(p + q)^2 - pq = 24$
16. Find a quadratic polynomial, the sum and the product of whose zeroes are 2 and $-3/2$ respectively. Also find the zeroes.
17. If the remainder on division of $x^3 + 2x^2 + kx + 3$ by $x - 3$ is 21, find the quotient and the value of k . Hence, find the zeroes of the polynomial.
18. Given that the zeroes of the cubic polynomial $x^3 - 6x^2 + 3x + 10$ are of the form $a, a + b, a + 2b$ for some real numbers a and b , find the values of a and b as well as the zeroes of the given polynomial.
19. Given that $x - 5$ is a factor of the cubic polynomial $x^3 - 35x^2 + 13x - 35$, find all the zeroes of the polynomial.
20. Find k so that $x^2 + 2x + k$ is a factor of $2x^4 + x^3 - 14x^2 + 5x + 6$. Also find all the zeroes of the two polynomials.
21. Solve the following pairs of equations :
 - i. $21x + 47y = 110$; $47x + 21y = 162$
 - ii. $2(ax - by) + (a + 4b) = 0$; $2(bx + ay) + (b - 4a) = 0$
 - iii. $\frac{2}{3x+2y} + \frac{3}{3x-2y} = \frac{17}{5}$; $\frac{5}{3x+2y} + \frac{1}{3x-2y} = 2$
22. Solve the following pair of equations by cross-multiplication method : $7x - 9y - 19 = 0$; $4x + 5y = 0$
23. Find the value of m so that the following pair of equations has infinitely many solutions : $2x + 3y - 7 = 0$ and $(m - 1)x + (m + 1)y = (3m - 1)$
24. Solve the following pair of equations graphically: $2x + y = 2$; $2y - x = 4$. Also find the area and the coordinates of the vertices of the triangle formed by these lines and the line $y = 0$.
25. Find the value of k for which the following pair of equations has a unique solution : $x - ky = 2$; $3x + 2y = -5$
26. Determine graphically the vertices of the triangle, the equations of whose sides are : $2y - x = 8$; $5y - x = 14$; $-2x + y = 1$.
27. In an acute angled triangle express a median in terms of its sides.
28. State and prove Basic Proportionality theorem.
29. State and prove Pythagoras theorem.
30. State and prove Converse of Pythagoras theorem.

31. Prove that the ratio of areas of two similar triangles is equal to the square of ratio of their corresponding sides.
32. Prove that the ratio of perimeters of two similar triangles is equal to the ratio of their corresponding sides.
33. Prove that the ratio of medians of two similar triangles is equal to the ratio of their corresponding sides.
34. Prove that the ratio of altitudes of two similar triangles is equal to the ratio of their corresponding sides.
35. Two poles of heights a metres and b metres are p metres apart. Prove that the height of the point of intersection of the lines joining the top of each pole to the foot of the opposite pole is given by $\frac{ab}{a+b}$ metres.

II. Make a working/still model on the following topics :

- a) Mensuration (Group - 1)
- b) Geometry (Group - 2)
- c) Algebra (Group - 3)
- d) Mathematics in daily life (Group – 4)
- e) Numbers (Group – 5)
- f) Statistics (Group – 6)

SCIENCE

- 1) Make a magazine on journey of life of given scientists with pictures and cuttings (any five)
 - a) J.J Thomson
 - b) Robert Brown
 - c) Michael Faraday
 - d) Rutherford
 - e) Mendel
 - f) Louis Pasteur
 - g) James Watt.
- 2) Prepare a working model for science exhibition on any of the following topics and prepare a report on it on white chart or A-4 sheets.
 - a) Energy production- conservation efficient methods- Biofuels, waste fermentation, water energy, magnetic electricity.
 - b) Water conservation techniques in agriculture (Smart fields, drip irrigation, modern irrigation techniques to save water or any other technique.
 - c) I.T controlled gadgets- any type- car, smart phone.
 - d) Conservations of resources in industries- Gasifier, paper industry, automobile industry, aviation industry or any other.
 - e) Energy conservation- designs of furniture/ buildings/ machines- Green buildings.
 - f) Any other relevant topic of your choice.

SOCIAL SCIENCE

Geography (make separate project file)

I. Map work

1. On an outline political map of India locate and label the following:
 - a) Iron ore mines
 - b) Manganese mines

- c) Mica mines
- d) Bauxite mines
- e) Coal mines

2. On an outline political map of India locate and label the following:

- a) Nuclear power plants
- b) Thermal power plants

II.

1. Make project on the human preparedness to tackle a natural disaster

Write:

What is it?

Where and how it occurred?

Safety measures

Immediate action to be taken

Topics:

Earthquakes-----roll no 1-20

Tsunami-----roll no 21-40

Economics

Find out the weight and height of four adult persons of different economic backgrounds such as construction workers, domestic servants, office workers etc.

Calculate their BMI and find the relation between economic backgrounds of persons and their nutritional status.

History

Write the important dates & events taken place in Europe in the making of Nationalism in Europe.

Look at the figure 14A, 14B given on Pg.21 (History) and answer the following question.

(a) Do you think people living in any of these regions thought of themselves as Italians.

(b) Which was the first region to become a part of Unified Italy? Which was the last region to join, in which year did the largest number of states join?

Write the meaning of the symbols under the heading attribute and significance (Pg.24 History)

Learn and write exercise questions and answers of (Ch.1 Page.28)

a) Make a Model on Nationalism in India.

b) Collect the pictures of National Freedom struggle of India and make a collage

c) Write a summary on freedom struggle of India from 1919 to 1947.

Political Science

Choose any five Political Parties and prepare a chart showing the Party symbols and giving the features of the Political Parties.

ART & CRAFT

Poster Making: - 1 Save Girl Child 2. Save Trees on A3 sheet.

COMPUTER

- 1. Develop a website on the following topics Tourism Ministry of India /School /IPL matches/Personal blog
- 2. Revise the syllabus taught for periodic test - 1.