

English

Subject- English

Class - 10th

Session 2023- 2024

Dear Students,

Learning is the beginning of wealth.

Learning is the beginning of health.

Learning is the beginning of spirituality.

Searching and learning is where the miracle process all begins.

Jim Rohn

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days. This vacation, the Holiday Homework is so designed that it will encourage 'Experiential Learning', a process of learning through experience. The assignments will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning among you all. They will certainly help you discover a new you who is more enriched and confident and performs every action to perfection.

1. Write summary of the story 'The Triumph of Surgery' also write the exercise followed by the story
2. Write a formal and informal letter.
3. Write a letter for placing an order.
4. Write a letter to complaint about the poor condition of a bridge in Bihar to the Chief Minister.
5. Write a paragraph on the place you visited or a person who inspires you
6. Read Panchatantra and Malgudi days and write their –reviews.
7. Read any one story and convert it into comic.
8. Communicate in English with your family and friends.
9. Read any English newspaper daily and note down any five words and write their meanings.
10. Solve the exercises of narration, active-passive voice and tense from Grammar book preferred by ncert.

ग्रीष्मकालीन

ग्रीष्मकालीन अवकाश गृह कार्य

विषय - हिन्दी , कक्षा - 10

1. गोपियों की जगह आप होते तो अपना तर्क किस प्रकार देते ?
2. किसी एक स्वतंत्रता सेनानी का सचित्र वर्णन कीजिए ।
3. गोस्वामी तुलसीदास का साहित्यिक जीवन परिचय लिखिए ।
4. कन्नड़ या गुजराती भाषा के किसी एक लेखक/ कवि का सचित्र वर्णन कीजिए ।
5. सूरदास जी की प्रमुख रचनाओं के बारे में संक्षेप में लिखिए ।
6. वर्तमान समय में कोरोना की भयावह स्थिति पर एक अनुच्छेद लिखें ।
7. राम और लक्ष्मण की तीन-तीन विशेषताएं लिखिए ।
8. आप से किसी महापुरुष की मूर्ति लगाने के लिए कहा जाए तो आप किसकी मूर्ति लगाएंगे, और क्यों ?
9. क्षितिज भाग-2 के पाठ 1 से 2 एवं पाठ-10 से 12 एवं कृतिका के पाठ 1 से 3 पढ़ें । पढ़ते समय अपने साथ पेन्सिल रखें एवं कठिन शब्द जो आपको नहीं आते उसे अंडर लाइन करें एवं अपनी फाइल में लाईन वाले पृष्ठ पर 5-5 बार सुन्दर - सुन्दर सुलेख के रूप में लिखें।
10. मुंशी प्रेमचंद की कहानी 'कफन' तथा देवकीनंदन खत्री जी की 'चंद्रकांता' उपन्यास को पढ़ें। पढ़ने के बाद इसकी समीक्षा को अपने शब्दों में लिखें।

SUBJECT MATHEMATICS

CLASS X

1. Which of the following is not irrational?
(a) $(2 - \sqrt{3})^2$
(b) $(\sqrt{2} + \sqrt{3})^2$
(c) $(\sqrt{2} - \sqrt{3})(\sqrt{2} + \sqrt{3})$
(d) $27\sqrt{7}$
2. The product of a rational and irrational number is
(a) rational
(b) irrational
(c) both of above
(d) none of above
3. There are 312, 260 and 156 students in class X, XI and XII respectively. Buses are to be hired to take these students to a picnic. Find the maximum number of students who can sit in a bus if each bus takes equal number of students
(a) 52
(b) 56
(c) 48
(d) 63
4. Express 98 as a product of its primes
(a) $2^2 \times 7$
(b) $2^2 \times 7^2$
(c) 2×7^2
(d) $2^3 \times 7$
5. For some integer p, every odd integer is of the form
(a) $2p + 1$
(b) $2p$
(c) $p + 1$
(d) p
6. Find the LCM of 96 and 360 by using fundamental theorem of arithmetic
7. Prove that $2 + 3\sqrt{5}$ is an irrational number
8. Explain why $(17 \times 5 \times 11 \times 3 \times 2 + 2 \times 11)$ is a composite number?
9. By using Euclid's algorithm, find the largest number which divides 650 and 1170.
10. Find the HCF and LCM of 306 and 657 and verify that $\text{LCM} \times \text{HCF} = \text{Product of the two numbers}$.
11. Show that any positive even integer can be written in the form $6q$, $6q + 2$ or $6q + 4$, where q is an integer?
12. **Express each number as a product of its prime factors:**
(i) 140
(ii) 156
(iii) 3825
(iv) 5005
13. Show that $\sqrt{2}$ is an irrational number.
14. **The zeroes of $x^2 - 2x - 8$ are:**
(a) (2, -4)
(b) (4, -2)

(c) $(-2,-2)$

(d) $(-4,-4)$

15. The degree of the polynomial, $x^4 - x^2 + 2$ is

(a) 2

(b) 4

(c) 1

(d) 0

16. Find the quadratic polynomial if its zeroes are 0, $\sqrt{5}$.

17. If the sum of zeroes of the quadratic polynomial $3x^2 - kx + 6$ is 3, then find the value of k.

18. If α and β are the zeroes of a polynomial such that $\alpha + \beta = -6$ and $\alpha\beta = 5$, then find the polynomial.

19. Form a quadratic polynomial whose zeroes are $(3 + \sqrt{2})$ and $(3 - \sqrt{2})$

20. A quadratic polynomial, whose zeroes are -4 and -5, is

(a) $x^2 - 9x + 20$

(b) $x^2 + 9x + 20$

(c) $x^2 - 9x - 20$

(d) $x^2 + 9x - 20$

21. 2, 3, 5, 9, 17, 33, _____

(A) 44

(B) 65

(C) 64

(D) 49

22. Look at this series: 36, 34, 30, 28, 24, ... What number should come next?

(A) 20

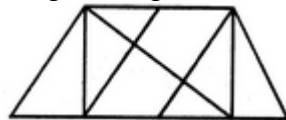
(B) 22

(C) 23

(D) 26

23.

Find the number of triangles in the given figure.



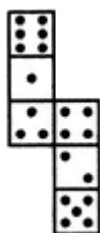
(a) 8

(b) 10

(c) 12

(d) 14

24. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



(a) 2

(b) 4

(c) 5

(d) 6

विषय: - संस्कृतम्

दशमी

- * अकारान्त पुल्लिङ्ग 'बालक', आकारान्त स्त्रीलिङ्ग 'बालिका' एवं अकारान्त नपुंसकलिङ्ग 'फलम्' शब्द रूप लिखें व याद करें ।
- * मुनि, पितृ, मातृ राजन् शब्द रूप लिखें व याद करें।
- * मति, नदी, शब्द रूप लिखें व याद करें।
- * उकारान्त नपुंसकलिङ्ग 'मधु' उकारान्त स्त्रीलिङ्ग धेनु शब्द रूप लिखें व याद करें।
- * सर्वनाम शब्द-रूप - एतत्, तत्, किम्, अस्मद्, युष्मद्, यत्, इदम् - (तीनों लिङ्गों में) लिखें व याद करें।
- * धातुरूप- परस्मैपदी - कृ, वस्, दृश्, स्था, पच्, पा(पिब), इष् (पाँचों लकारों में- लट् लकार, लङ्ग लकार, लृट् लकार, लोट् लकार एवं विधिलिङ् लकार)- 3 बार लिखें व याद करें ।
- * प्रथम (शुचिपर्यावरणम्) एवं तृतीय (व्यायामः सर्वदाः पथ्यः) पाठ का प्रत्येक श्लोक अर्थ सहित लिखें । साथ ही उक्त पाठ के आधार पर एकपद प्रश्न, पूर्ण वाक्य प्रश्न स्वयं स्मरण से एवं उसका उत्तरसहित बनायें ।
- * व्यञ्जन एवं विसर्ग सन्धि एवं उसके भेद उदाहरण सहित लिखें। (पाठ्यपुस्तक "शेमुषी" से उदाहरण संकलित करें)
- * पाठ्यपुस्तक "शेमुषी" से उदाहरण प्रत्यय - उदाहरण सहित लिखें। (उदाहरण संकलित करें)
- * "अभ्यासवान् भव" पुस्तक के आधार पर अपठितावबोधनम् (I-V) तक उत्तरपुस्तिका में लिख कर अभ्यास करें ।
- * "अभ्यासवान् भव" पुस्तक के आधार पर रचनात्मककार्यम् पत्रम-लेखनम् (I- III) तक उत्तरपुस्तिका में लिख कर अभ्यास करें ।
- * "अभ्यासवान् भव" पुस्तक के आधार पर अनुच्छेद लेखनम् (I-V) तक उत्तरपुस्तिका में लिख कर अभ्यास करें ।
- * द्वितीय पाठ के आधार पर यदि आप बुद्धिमती के स्थान पर होते/होती, तो उस व्याघ्र से किस प्रकार बचाव करते/करती- इस विषय पर एक लघु कथा लिखें (किसी एक भाषा में- संस्कृत या हिन्दी या आङ्गभाषा) ।

सामान्य विज्ञान

CHEMISTRY

1. What do you mean by chemical reactions? Give an example of a chemical reaction.
2. Explain the types of chemical reactions. With two examples from each of the chemical reaction.
3. (a) Explain the term "corrosion" with an example. Write chemical equations to show the process of corrosion of iron.
(b) What types of chemical reaction is involved in the corrosion of iron?
(c) What special name is given to the corrosion of iron?
(d) Name any three objects which are generally damaged by the corrosion of iron and steel?
- 4 (a) Explain the term "rancidity". What damage is caused by rancidity?
(b) What types of chemical reaction is responsible for causing rancidity?
(c) State and explain the various method of preventing or retarding of rancidity of food?

BIOLOGY

1. Answer the following questions:-
 - (a) How are fats digested in our body? Where does this process take place?
 - (b) What is the role of haemoglobin in transportation?
 - (c) Why are cartilage ring present inside trachea?
 - (d) How do villi enhance absorption of food in intestine?
 - (e) Explain the term Bowman capsule.
 - (f) Explain the process of nutrition in amoeba.
 - (g) What is photosynthesis? What are the raw materials required for photosynthesis. How does plant obtain these raw materials?
2. Prepare a working model and chart on the allotted topic:-
 - (a) Human digestive system (Roll no. 1 to 8)
 - (b) Human heart (Roll no. 9 to 16)
 - (c) Human respiratory system (Roll no. 17 to 32)
 - (d) Human excretory system Roll no. 33 to 40)
3. Perform an activity on your home and observe, maintain records and photograph from these activity.
 - (a) Why sunlight is necessary for photosynthesis?
 - (b) How do plants exchange their gases during photosynthesis?

PHYSICS

1. What is mirror? What are the various types of mirror? Explain it.
2. Enlist at least five objects in your surrounding which behaves as concave or convex mirror.
3. Write the uses of concave and convex mirror in your daily life.
4. Draw a ray diagram for all the possible cases of concave and convex mirror and also write the nature, size and position of the image in a tabular form.
5. Why does the colour of sky appear as blue? Why the sky appears dark instead of blue to an astronaut?
6. What is the difference in colours of the sun observed during sunrise / sunset and noon? Give explanation for each?
7. The working of optical instrument like camera, microscope, telescope, etc. having glass lenses is based on phenomena of light. Identify the phenomena and explain it?
8. Which phenomenon of light is responsible for the working of the human Eye?

सामाजिक विज्ञान

Holiday Home work (class X) Social Science

Answer the following questions.

1. Name three states having black soil and the crop which is grown in it. (Resources and development, Exercises 2.i)
2. What steps can be taken to control soil erosion in the hilly areas? (Resources and development, Exercises 2.iii)
3. What are the biotic and abiotic resources? Give some examples. (Resources and development, Exercises, 2.iv)
4. Explain land use pattern in India and why has the land under forest not increased much since 1960-61? (Resources and development, Exercises, 3.i)
5. Describe any three main features of Alluvial soil in India.
6. How have technical and economic development led to more consumption of resources? (Resources and development, Exercises, 3.ii)
7. what is the main cause of land degradation in Punjab? (Resources and development, Exercises 1.iii)
8. What are the differences between bhangar soil and khadar soil?
9. Imagine if oil supplies get exhausted how will this affect our life style? (Resources and development, activity. 3)
10. How have human activities affected the depletion of flora and fauna? (Forest and wildlife resources, Exercises 4.ii)
11. Describe how communities have conserved and protected forests and wildlife in India? (Forest and wildlife, Exercises, 5.i)
12. What is biodiversity? Why is biodiversity important for human lives? (Forest and wildlife resources, Exercises, 4.i)
13. What are the different forms of power sharing in modern democracies? (Power sharing, Exercises, 1)
14. Why Power sharing is desirable?
15. What is Majoritarianism?

16. Who were Marianne and Germania?
17. Briefly trace the process of German unification. (The rise of nationalism in Europe, Write in brief Q. 4)
18. What changes did Napoleon introduce to make the administrative system more efficient in the territories ruled by him? (The rise of nationalism in Europe Q. 5)
19. Why did nationalist tensions emerge in the Balkans? (The rise of nationalism in Europe, Discuss, Q. 5)
20. Choose three examples to show the contribution of culture to the growth of nationalism in Europe. (The rise of nationalism in Europe, Discuss, Q. 2)
21. Go through any newspaper daily and make a note of ongoing important national and international issues. (One each)
22. If you happen to visit a place of historical eminence or of geographical significance during the vacation, note down your experience with relevant photographs.
23. Provide the information in detail about the Russia-Ukraine war and the involvement of NATO in this waging war.
24. Visit your nearby agricultural field or Agricultural office to get the first hand information about Millets.
25. Write an essay on the benefits of Millets. (Celebration of International Year of Millets-2023)
26. How do you think India can benefit from its G-20 Presidency?
27. What can India offer to the G-20 countries as its President?
28. What would you suggest for a greener and cleaner environment to G-20 countries and their leaders?
29. Write the Preamble to the Indian Constitution.
30. Express your views regarding the challenges faced by India and its foreign policy in view of the recent developments in the foreign policy of China.