

**GREEN LAND PUBLIC SCHOOL
HOLIDAY HOME WORK (2018- 2019)**

Class-Xth

English:

Note: All work to be done in the respective fair register.

Complete the story on the bases of the clues given.

We were very happy as we had been allotted a bungalow on Khar road. The day to shift arrived but as we entered the new home. I felt-----.

You are Ruhat /Rehana you are disturbed by the effect of advertisement on the young impressionable minds of child .

Write a letter to the Editors of a National Daily expressing your concern.

Article Writing:

Internet savvy

Prices of the items of daily consumption.

Animal performances should be banned in circus.

Obey Traffic rules.

Female Foeticide is a crime.

Letter writing:

On any topic write 2 formal & informal.

हिंदी:

1. अपनी पाठ्य पुस्तक क्षितिज गद्य खंड से पाठ लखनवी अंदाज और मानवीय करुणा की दिव्य चमक को अच्छे से पढ़कर स्वयं प्रश्न – उत्तर लिखें |

2. क्षितिज काव्य खंड से राम लक्ष्मण परशुराम संवाद व कवि देव के सरलार्थ व प्रश्न / उत्तर लिखकर लाएँ |

3. व्याकरण पाठ्य पुस्तक दर्शिका में अभ्यास वाले गद्यांश व काव्यांश (दस) भरकर लाएं |

4. पाठ्य पुस्तक दर्शिका से रस की परिभाषा व रस के भेदों के नाम, परिभाषा एवं उदाहरण सहित लिखकर लाएं |

Class -x

Assignment Arithmetic Progression

Q1. Find A.P. whose first term is a and the common difference d are given below: (a) $a = 8, d = 4$ (b) $a = -90, d = 20$
(c) $a = 2, d = -1/2$ (d) $a = p, d = -3q$

Q2. The nth term of a sequence is $2n + 1$. Is the sequence, so formed is A. P.? If so, find its 12th term. Q3. Find the value of k for which the following terms are in A.P. (a) $2k + 1, k^2 + k + 1, 3k^2 - 3k + 3$ (b) $k + 2, 4k - 6, 3k - 2$ (c) $8k + 4, 6k - 2, 2k + 7$

Q4. Which term of A.P. 3, 8, 13, 18,..... is 248?

Q5. How many terms are in the A.P. 6, 3, 0, -3,....., - 36?

Q6. For what value of n, the nth term of the following A.P.s are equal? 23, 25, 27, 29,..... and -17, -10, -3, 4,.....

Q7. The first term of an A.P. is -3 and tenth term is 24. Find the 20th term.

Q8. The seventh term of an A.P. is 32 and its 13th term is 62. Find the A.P.

Q9. The 6th term of an A.P. is 5 times the first term and the eleventh term exceeds twice the 5th term by 3. Find the 8th term.

Q10. The 7th term of an A.P. is -4 and its 13th term is -16. Find the A.P.

Q11. The fifth term of an A.P. is thrice the second term and twelfth term exceeds twice the 6th term by 1. Find the 16th term.

Q12. Find the 15th term from the end of the A. P. 3, 5, 7, 9,....., 201.

Q13. How many numbers of two digits are divisible by 6 ?

Q14. Find the number of integers between 50 and 500 which are divisible by 7.

Q15. If five times the 5th term of an A.P. is equal to 8 times the 8th term, show that its 13th term is zero. Q16. The sum of 4th and 8th terms of an A.P. is 24 and the sum of the 6th and 10th terms is 34. Find the first term and the common difference of the A.P.

Q17. Which term of the A.P. 3, 11, 19,..... is 195 ?

Q18. Find sum of the following series: (a) $72 + 70 + 68 + \dots + 40$ (b) $5 + 5.5 + 6 + \dots$ to 20 terms (c) $-11 -5 + 1 + \dots$ to 10 terms (d) $-25 -21 -17 \dots$ to 24 terms

Q19. Find the sum of the: (a) first 50 even numbers (b) first 50 odd numbers

Q20. Find the sum of all the natural numbers: (a) between 100 and 1000 which are multiple of 5 (b) between 50 and 500 which are divisible by 7 (c) between 50 and 500 which are divisible by 3 and 5.

Q21. How many terms of the sequence 18, 16, 14,..... should be taken so that their sum is zero?

Q22. How many terms of an A.P. 1, 4, 7, are needed to give the sum 2380?

Q23. If $S_n = 3n^2 + n$, find the A.P.

Q24. Find the nth term of an A.P., sum of whose n terms is $2n^2 + 3n$.

Q25. The sum of first 9 terms of an A.P. is 171 and that of first 24 terms is 996. Find the first term and the common difference.

Q26. Find the sum of first 25 terms of an A.P. whose nth term is given by $t_n = 2 - 3n$.

Q27. How many terms of A.P. $-6, -11/2, -5, \dots$ are needed to give the sum -25 ? Explain double answer. Q28. In an A.P., if the 5th and 12th terms are 30 and 65 respectively, what is the sum of first 20 terms? Q29. A man saves Rs 32,000 during first year, Rs 36,000 in the next year and Rs 40,000 in the third year. If he continues his savings in this sequence, in how many years will he save Rs 2,00,000 ?

Q30. Find the middle term of A.P. 1, 4, 7,, 97.

Q31. The sum of three numbers in A.P. is 36 and the sum of their squares is 450. Find the numbers. Q32. Find the first negative term of the A.P. 2000, 1990, 1980, 1970,.....

Q33. 8. A club consists of members whose ages are in A.P. the common difference being 4 months. If the youngest member of the club is 8 year old and the sum of ages of all the members is 168 years, find the total number of members in the club.

Answers Ans1. (a) 8, 12, 16, 20, ... (b) $-90, -70, -50, -30, \dots$ (c) $2, 3/2, 1, 1/2, 0, \dots$ (d) $p, p - 3q, p - 6q, p - 9q, \dots$
Ans2. yes, 25 Ans3. (a) 2 (b) 3 (c) 7.5 Ans4. 50 Ans5. 15 Ans6. 9 Ans7. 54 Ans8. 2, 7, 12, 17, Ans9. 33 Ans10. 8, 6, 4, 2, Ans11. 31 Ans12. 173 Ans13. 15 Ans14. 64 Ans16. $-1/2, 5/2$ Ans17. 25 Ans18. (a) 952 (b) 195 (c) 160 (d) 504 Ans19. (a) 2550 (b) 2500 Ans20. (a) 98450 (b) 17696 (c) 8325 Ans21. 19 Ans22. 40 Ans23. 4, 10, 16, Ans24. $4n + 1$ Ans25. 7, 3 Ans26. -925 Ans27. 20 or 5 Ans28. 1150 Ans29. 5 years Ans30. 49 Ans31. 9, 12, 15 Ans32. -10 Ans33. 16

Science:

Biology:

Assignment

1. Name the largest gland of our body.
2. Give the term for the rhythmic contraction of muscles of alimentary canal to propel food.
3. Give examples of two plants and two animal parasites.
4. What are the simplest digestive products of fat, carbohydrates and proteins?
5. The breathing rate of aquatic animals is high. Why?
6. Give the function of network of capillaries on alveoli.
7. Draw a well-labelled diagram showing the opening and closing of the stomatal pore.
8. Describe the mechanism and function of the heart.
9. Write an account on Haemodialysis.
10. Describe the structure and function of the nephron.
11. Which gland secretes digestive enzymes as well as hormones.
12. What is tropic movement? Explain with an example.
13. Name the various endocrine glands, their hormones and function.
14. What do you mean by CNS? What are its main functions.
15. What is the basic unit of nervous system? How do neurons conduct messages from brain to other parts?
16. What will happen if we intake of iodine in our diet is low?
17. Why is the flow of signal in a synapse always from axonal end of a neuron but not the reverse?
18. Distinguish between lactic acid and alcoholic fermentation? Name the energy currency molecules of cell.
19. Name the sphincter which regulates the exit of food from the stomach. What important role does it play.
20. Explain the process of ingestion, digestion and absorption along with enzyme action in (i) mouth (ii) Stomach (iii) Small intestine.

Chemistry:

1. Define oxidation and Reduction.
2. Give an example of photochemical reactions.
3. Name the type of reaction in the following cases:
(i) Garbage producing foul smell.
(ii) burning of natural gases.
(iii) Carbon dioxide gas passed through lime water.
4. Write at least 15 reactions and balance the equations.
5. A substance X displaces Y from its solution in water. It is called displacement reaction. Explain giving any three examples and balance the equations.
6. What is brine?
7. Name the gas which is usually produced when dilute sulphuric acid reacts with a metal. How will you test the evolution of this gas?
8. What is universal indicator? State the purpose for which this indicator is used.
9. How would you distinguish between baking powder and washing soda by heating?
10. How does the enamel of the teeth undergo damage due to eating of chocolate? What should we do to prevent it?
11. Name the acid produced in our stomach. What happens if there is excess of acid in the stomach? How can it be cured? Name any two antacids.
12. Explain the action of dilute hydrochloric acid on the following with chemical equations.
Magnesium ribbon ii) Sodium hydroxide iii) crushed egg shells.
13. How is bleaching powder prepared? For what purpose is it used in paper factories?
14. State reason for the following:
i. A tarnished copper vessel begins to shine again when rubbed with lemon.
ii. All alkalis are bases but all bases are not alkalis.
iii. Use of a mild base like baking soda on the honey bee stung area gives relief?
15. What is observed when-
i. H_2SO_4 is added to solid Sodium carbonate.
ii. Hot conc. H_2SO_4 is added to sulphur.
iii. CO_2 is passed through lime water.
iv. Metal hydrogen carbonate reacts with acids.
v. Acid reacts with base.
16. Diagrammatically represent the variation of pH with the change in concentration of H^+ ions and OH^- ions and also explain.

Project:

- i. Prepare a Power Point presentation on the topic “Types of Chemical Reactions.”
 - ii. make a food web by using following animals and identify their trophic levels- tiger, wolf, wild cat, mouse, shrew, fox, squirrel, rabbit, jackal, wild dog, deer vegetation.
 - iii. Human digestive system (model)
- Revise July Periodic Test Syllabus (Biology Le-2 , Chemistry Le-2)
Chemistry : Read Le-4, “Carbon and its compound” and write its summery.

Biology:

- Le-3, How do organisms Reproduce.
Read and write its summery.

PHYSICS**MAGNETIC EFFECTS OF ELECTRIC CURRENT**

1. State the effects of current.
2. Why does a compass needle placed near a current carrying wire show deflection?
3. How can the magnetic field produced around a current carrying conductor be detected?
4. Give one example each of the following:- (a) magnetic effect of electric current (b) electric effect of moving magnets
5. Define magnetic field.
6. Give the characteristics of magnetic field lines.
7. With the help of an activity show how magnetic field lines around a bar magnet can be obtained. Also draw the pattern of magnetic field lines around a bar magnet.
8. How is the deflection in the compass needle affected as we move it along a field line
(a) towards the poles (b) away from poles.
9. State the factors on which strength of magnetic field due to a straight current carrying conductor depends.
10. “the concentric circles representing the magnetic field around a current carrying straight wire become larger and larger as we move away from it.” What conclusion can be drawn from this statement?
11. Name and state the rule to determine the direction of magnetic field produced around a current carrying conductor.
12. Two magnetic lines of force do not intersect each other. Why?
13. Draw the pattern of lines of force due to a magnetic field through and around a current carrying loop of wire. How does the strength of magnetic field produced at the centre of the loop be affected if:-
(a) strength of the current passing through it is doubled?
(b) the radius of the loop is reduced to half the original value?
(c) the radius of the loop is doubled its original value and at the same time current passing through it is also doubled?
14. What does the arrow of the magnetic field line indicate?
15. What does crowding of field lines at a point mean?
16. Will a circular loop of bigger radius produce higher magnetic field than a loop of smaller radius if current flowing though both the loops is same? Give reason.
17. What is a solenoid?
18. Draw comparison of magnetic field pattern due to current carrying solenoid and that of a bar magnet.
19. The field lines inside the solenoid are in the form of parallel straight lines. What does this indicate?
20. What is an electromagnet?

21. What is an overload in an electric circuit?
22. If a magnetic field is normal to a current carrying conductor, how will you find the direction of the force acting on the conductor?
23. Why is electricity transmitted over long distances at very high voltage?
24. What is the difference between a heating wire and a fuse wire?
25. Why are electrical appliances used in a domestic circuit connected in parallel? Give two reasons.

HOTS

1. A bird sitting on 11,000V wire is not hurt while a person touching 220 V wire dies. Why?
2. A main supply of a house is through 5A fuse. How many 100W bulbs can be used in the house at the correct voltage?

S.St.

1. Choose any disaster and make a project file.
2. Choose any one topic of Term -1 from book and prepare PPT.
3. Prepare 20 M.C.Q. on following topic:
 - i. Power sharing
 - ii. Development
 - iii. Resources and Development
 - iv. The age of Industrilisation
4. Show all industries in the map of India.
(Textile industries , Automobolies Industries)
5. Classify resources on the basis of status of development and explain them with examples.
6. Net shown Area is over 80% in some states and less than 10% Explain Why?
7. Collect different types of soil and write its feature.
8. Grow one Cactus in pot and write its features.