



SPRINGDALES PUBLIC SCHOOL, JAGADHRI

Session: 2023-24

Class-XI

(Holiday's Homework & Periodic Test-II Syllabus)

Subject	Holidays Home Work	Periodic Test- II Syllabus
English	<ul style="list-style-type: none"> • Complete your notebooks. • Revise syllabus of Periodic Test-II <p>Subject Enrichment Activity : You are the school secretary of your school. The school is organising a Science Exhibition on 15 July 2023. It will be from 9 a m. To 1 p.m. Design a poster on A3 sheet , to be put up in front of various schools for publicity.</p>	<p>Hornbill: Ch. We are not Afraid to Die Poem : The Laburnum Top</p> <p>Snapshots: Ch. The Address</p> <p>Writing: Poster Making</p>
Maths	Revise Ch-1 Sets , Ch-3 Trigonometry , Ch-4 Complex Numbers , Ch-5 Linear Inequations from NCERT Textbook.	Ch-3 Trigonometry
Physics	<p>1. Make working model & project report as assigned.</p> <p>2. Complete your practical file with the given Practicals:</p> <ol style="list-style-type: none"> 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine radius of curvature of a given spherical surface by a spherometer. 4. To find the weight of a given body using parallelogram law of vectors. <p>Activities</p> <ol style="list-style-type: none"> 1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. 2. To plot a graph for a given set of data, with proper choice of scales and error bars. 	<p>Ch 5 Laws of motion</p> <p>Ch 6 Work power and energy</p>

	<ol style="list-style-type: none"> 3. To study the variation in range of a projectile with angle of projection. 4. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane). 	
Chemistry	<ol style="list-style-type: none"> 1. Make working model as assigned. 2. Complete your practical file with the given practicals: <ol style="list-style-type: none"> 1. To prepare the crystals of Potash Alum. 2. Determine and compare the pH value of solutions of strong acid (e.g. HCl) and weak acid (e.g. CH₃COOH) of same concentration (0.1M, 0.01M) 3. To prepare the 250 ml of 0.1M oxalic acid solution. 4. Determine the molarity and strength of given NaOH solution. You are provided with M/10 oxalic acid solution. 5. To prepare 250 ml of 0.1 M sodium carbonate solution 6. Determine the molarity & strength of given solution of hydrochloric acid by titrating it against standard solution of sodium carbonate. You are provided with M/20 sodium carbonate solution. 3. Make a Project report on the topics allotted <ol style="list-style-type: none"> 1. To check the bacterial contamination in drinking water by testing sulphide ions.(1,7,13,19,25,31,37,43,49) 2. To study the foaming capacity of different samples of soap.(2,8,14,20,26,32,38,44,50) 3. To study the rate of evaporation of different liquids.(3,9,15,21,27,33,39,45,51) 4. Analysis of vegetables and fruit juices.(4,10,16,22,28,34,40,46,52) 5. Study of common food adulterants in fat, oil ,sugar, turmeric powder, chilli powder and pepper.(5,11,17,23,29,35,41,47,53) 6. Analysis of cold drinks.(6,12,18,24,30,36,42,48,54) 	<p>Ch-2 Structure of atom Ch-3 Classification of elements and periodicity in properties</p>

Biology	<p>1. To make a working model</p> <p>2. Complete your practical file with the given practicals:</p> <ol style="list-style-type: none"> 1. Study locally available common flowering plants of the family – Solanaceae and 6 identify type of stem (Herbaceous or Woody), type of leaves (Compound or Simple). 2. Study the parts of a compound microscope- eye piece and objective lens, mirror, stage, coarse and fine adjustment knobs. 3. Differentiate between monocot and dicot plants on the basis of venation patterns. 4. Study the following parts of human skeleton (Model): Ball and socket joints of thigh and shoulder 5. Rib cage 6. Study honeybee/butterfly, snail/sheik snail through shell, Starfish, Pigeon (through models). 7. Identify the given specimen of a fungus – mushroom, gymnosperm-pine cone 8. Identify and relate the experimental set up with the aim of experiment: For Potato Osmometer/endosmosis in raisins. <p>3. Make a Project report on the topic allotted.</p>	<p>Chapter 1 The Living World Chapter 2 Biological Classification Chapter 3 Plant Kingdom</p>
Economics	<ul style="list-style-type: none"> ❖ Revise NCERT questions of Ch-1 to 7. ❖ Make a Project Report on the topic : Skill India & Make in India Or Components of Taxes 	<p>Ch-5 Tabular Presentation Ch- 6 Bar Diagrams & Pie Diagrams ; Ch-7 Histogram & Polygon; Ch-8 Time series Graph ; Ch-9 Arithmetic Mean</p>
Accountancy	<ul style="list-style-type: none"> ❖ Revise NCERT questions of Ch-1,2,3,6,7,9,10,12 ❖ Make a Project Report on the topic : Digital Accounting & its growth in India 	<p>Ch-1 Meaning & Nature of Accounting ; Ch-2 Basic Accounting terms Ch-3 Accounting principles Ch-7 Double Entry System Ch-10 Accounting for GST Ch-12 Subsidiary Books</p>
Business Studies	<p>Make a project report on International Trade or Internal Trade:</p>	<p>Unit - 2 and 3</p>
Hindi	<p>परियोजना कार्य जनसंचार के प्रमुख माध्यमों पर सचित्र परियोजना तैयार कीजिए ।</p>	<p>पद्य भाग - गजल , अकक महादेवी गद्य भाग- मियां नसीरुद्दीन, गलता लोहा वितान - राजस्थान की रजत बूंदें जनसंचार माध्यम</p>
Punjabi	<p>ਜਮਾਤ ਵਿੱਚ ਕਰਾ ਕਰਵਾਇਆ ਗਿਆ ਸਾਰਾ ਕੰਮ ਯਾਦ ਕਰੋ Project file : ਸੱਭਿਆਚਾਰਕ ਗਤੀਵਿਧੀਆਂ (ਲੋਕ ਨਾਚ, ਲੋਕ</p>	<p>ਬੈਂਕ, ਰੇਲਵੇ, ਡਾਕ, ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ ਮੁਹਾਵਰੇ (1-50), ਦੰਤ ਕਥਾਵਾਂ - ਰਾਜਾ</p>

	ਗੀਤ ਲੋਕ ਬੋਲੀਆਂ)	ਰਸਾਲੂ, ਪੀਤ- ਕਥਾਵਾ ਹੀਰ ਰਾਂਝਾ, ਮਿਰਜਾ ਸਾਹਿਬਾ ।
Political Science	Project work(anyone) European union and bricks ASEAN and SAARC Challenges of nation building UN organisation	Periodic test 2 syllabus Executive Judiciary Election and representation
Sociology	Do the given Project work(any one) Cultural change Industrialization Ruralisation Globalization	Ch-2 terms concepts and their use in Sociology Ch-3 understanding social institutions
Physical Education	Complete your Practical file with the given topics : - Track ,volleyball, Shot put, Long jump.	Ch 1 Planning in sports Ch 2 Children women in sports
Music	(1) निम्न को परिभाषित कीजिए नाद, श्रुति, स्वर, सप्तक , थाट, जाति, लय, ताल, अलंकार, कण, मींड, खटका, मुर्की, ग्राम (2) प्रायोगिक कार्य हिंदुस्तानी संगीत में अलंकार क्या है तथा इसका क्या महत्व है? तीन ताल तथा कहरवा ताल में 10 अलंकार बनाएं।	(1) निम्न को परिभाषित कीजिए अलंकार, कण, मींड, खटका, ग्राम, गमक, मूर्च्छना, अलाप, तान, तीन ताल लयकारी सहित लिखिए!

Class XI

SUB : English Assignment

1. Read the following extract and answer the questions that follow

(a) 'Have you come back' said the woman. I thought that no one had come back only . A door opened and closed in the passage behind her. A musty smell emerged. I regret I cannot do anything for you I have come here especially on the . I want you to talk to me,for a moment it is not convenient for me now said the woman, I can't see you another time. she nodded and cautiously closed the door as though no one inside the house should be disturbed.

- a. Who is the speaker of the line, "Have you come back"?
- b. Why did the narrator go to Mrs. Dorling's home?
- c. What was the address of Mrs. Dorling 's home
- d. What does the word musty mean?

(b) "Till the goldfinch comes, with a twitching chirrup

A suddenness, a startlement, at a branch end.

Then sleek as a lizard, and alert, and abrupt,

She enters the thickness,"

1. Name the poem and the poet?
2. Name the poetic device used in sleek as lizard?
3. What does the bird do after it comes to the laburnum tree?

Answer the following questions in brief:

1. What kind of welcome did the narrator get from Mrs. Dorling?
2. Whom did the narrator desire to meet in Holland ? Why?
3. What effect does the entrance of the mother goldfinch bird to the inner part of the branch produce?
4. How does the poem depict the Laburnum tree before the arrival of the goldfinch bird?

Answer the following questions in detail:

1. The Address is the story of war and Human Predicament. Explain.
2. Who was John Byro and what was his problem?
3. Who was Mrs. Dorling and what made her renew her contact with Mrs. S, the narrato's mother?
4. "At her age one could never tell" . What could one not tell? Why?
5. What happy news did the narrator's son give him ? What had made it possible? Why did Sue and Jonathan give their dad a hug ?
6. Why was king Tut's mummy C.T. scanned?
7. Contrast the behaviour of the goldfinch at the time of entering the Laburnum Tree and at the time of leaving it .

Advertisement

Your father has some farmland which he wishes to sell. Draft a classified advertisement offering the land for sale .

HOLIDAYS HOMEWORK ASSIGNMENT

SUB : BIOLOGY

CLASS XI

1. Who gave the binomial name of classification?
2. What are the universal rules of nomenclature?
3. How is a key helpful in the identification and classification of an organism?
4. Define and understand the following terms
a) Phylum b) Class c) Family d) Order e) Genus
5. *Brassica competes Linn*
6. Give the common name of the plant.
7. What do the first two parts of the name denote?
8. Why are they written in italics?
9. What is the meaning of Linn written at the end of the name?
10. For identification, mention some of the taxonomic aids. Also, discuss in detail taxonomic aids.
11. State important uses of (a) heterotrophic bacteria and (b) archaeobacteria.
12. Give a detailed account of the classes of Kingdom Fungi under the following:
 - (i) Mode of nutrition
 - (ii) Mode of reproduction
13. Please give a brief account of viruses concerning their structure and nature of genetic material. Also, name four common viral diseases.
14. Diatoms are also called 'pearls of the ocean'. Why? What is diatomaceous earth?
15. Some symbiotic organisms are very good pollution indicators composed of chlorophyllous and non-chlorophyllous members. Describe them.
16. a) What are heterocysts?
b) Write a note on dikaryophase.
c) Differentiate the Protista and Fungi in terms of their nutrition.
17. Explain sexual reproduction in bacteria.
18. What are the characteristic features of euglenoids?
19. A) Describe the different functions of polysaccharides in living organisms.
- b) Explain in brief the tertiary structure of proteins.
20. Describe phospholipid. Describe their arrangement in the cell membrane.
21. Describe the living state briefly as a non-equilibrium steady state.
22. Enzymes are bio catalysts in nature. They catalyse major biochemical reactions. In general, they also reduce the activation energy of reactions. Many of the physicochemical processes are enzyme-mediated. Some examples of enzyme-mediated reactions are given below. Explain the wrong answer.
23. Telophase is said to be the reverse of prophase. Describe the statement.
24. What is the significance of Meiosis?
25. Analyse the following events during every stage of the cell cycle and notice the following two parameters-
 - (i) Number of chromosomes changed per cell
 - (ii) Amount of DNA content (C) changed per cell

HOLIDAYS HOMEWORK ASSIGNMENT

CLASS XI

SUB : CHEMISTRY

1. What is the difference between the mass of a molecule and gram molecular mass.
2. Two bulbs be B1 and B2 of equal capacity contain 10 gram of Oxygen and ozone respectively. Which bulb will have greater number of O- atoms and which will have greater number of molecules?
3. Why molality is preferred over molarity in expressing the concentration of solution?
4. How much copper can be obtained from 100 g of copper sulphate?
5. State and explain law of multiple proportions
6. Determine the empirical formula of an oxide of iron which has 69.9% iron and 30.1% oxygen by mass. (atomic mass of Fe=55.85 a.m.u , O= 16:00 a.m.u)
7. Why Heisenberg's uncertainty principle has no significance in everyday life?
8. With what velocity must an electron travel so that its momentum is equal to that of a photon of wavelength 560 nm.
9. Draw the shapes of following orbitals $2p_y$, $3d z^2$, $3d x^2-y^2$
10. Which of the two is paramagnetic V(IV) or V(V) and why?
11. What is the angular momentum of an electron in 2s orbital and 4f orbital.
12. Why electronic energy is negative?
13. What is modern periodic law and what is the cause of periodicity?
14. Discuss the size of cation and anion with respect to parent atom.
15. Arrange the following in order of their increasing ionic radii Al^{3+} , Li^+ , Mg^{2+} , K^+
16. What are isoelectronic species give examples to illustrate your answer.
17. What do you understand by representative elements. Name the groups whose elements are called representative elements.
18. Explain why ionization enthalpy decrease down a group of the periodic table.
19. Write IUPAC names of the elements with atomic number 101, 113, 118, 112.
20. Case study: Orbitals are region or space wher.e there is maximum probability of finding electrons. Qualitatively, these orbitals can be distinguished

by their size, shape and orientation. An orbital of small size means there is more chance of finding the electron near the nucleus. Shape and orientation means the direction in which probability of finding electron is maximum. Atomic orbitals can be distinguished by quantum numbers. Each orbital is designated by three quantum numbers n , l and m_l (magnetic quantum number) which define energy, shape and orientation but these are not sufficient to explain spectra of multi-electrons atoms. Spin quantum number (m_s) determines the spin of electron. Spin angular momentum of electron has two orientations relative to chosen axis which are distinguished by spin quantum numbers m_s which can take values $+1/2$ and $-1/2$.

Value of 'l'	0	1	2	3	4
Notation for subshell	s	p	d	f	g

- How many orbitals are associated with $n = 3$?
- Describe the orbitals represented by (i) $n = 2, l = 1$ (ii) $n = 4, l = 0$.
- How many electron are possible in an orbital? Why?
- What is shape of 's' and 'p' orbitals?
- Name two d-orbitals which are on axis.

Class XI**SUB : PHYSICS Assignment**

1. What are the dimensions of constant a and b ? The van der waal's gas equation is $(P+a/V^2)(V-b)=RT$.
2. When does a cyclist appear to be stationary with respect to another moving cyclist?
3. Can an object have an eastward velocity while experiencing a westward acceleration?
4. Can the direction of velocity of an object change, when acceleration is constant?
5. Two balls of different masses (one lighter and other heavier) are thrown vertically upward with same initial speed. Which one will rise to the greater height?
6. State in the following cases, whether the motion is one, two or three dimensional:
 - (i) a kite flying on a windy day,
 - (ii) a speeding car on a long straight high way,
 - (iii) a carrom coin rebounding from the side of the board,
 - (iv) an insect crawling on a globe, and
 - (v) a planet revolving around its star?
7. What are horizontal and vertical components of acceleration of a body thrown horizontally with uniform speed?
8. Two balls are released simultaneously from certain height, one is allowed to fall freely and other thrown with some horizontal velocity. Will they hit the ground together? Substantiate your answer with proper reasoning.
9. A person sitting in a moving train throws a ball vertically upwards how does the ball appear to move to an observer (a) inside the train (b) outside the train?
10. While firing, one has to aim little above the target and not exactly on the target. Why?
11. The Length, Breadth and Thickness of a Rectangular Sheet of Metal Are 4.234m, 1.005m and 2.01cm Respectively. Give the Area and Volume of the Sheet to Correct Significant Figure.
12. State the number of significant figures in the following: a) 0.007 m² b) 2.64×10^{24} kg c) 0.2370 g cm⁻³ d) 6.320 J e) 6.032 N m⁻² f) 0.0006032 m² .
13. Check the accuracy of the following relations: $E = mgh + \frac{1}{2} mv^2$;
14. A unit vector is represented by $a\hat{i}+b\hat{j}+c\hat{k}$. If the values of a and b are 0.6 and 0.8 respectively, find the value of c .
15. A boat is moving with a velocity $(3\hat{i}+4\hat{j})$ with respect to ground the water in the river is moving with a velocity $(-3\hat{i}-4\hat{j})$ with respect to ground. what is the relative velocity of boat with respect to water?
16. Explain dot product and cross product of two vectors with examples also give their properties.
17. A batsman hits back a ball straight in the direction of the bowler without changing its initial speed of 12 m per second if the mass of the ball is 0.15 kg determine the impulse imparted to the ball.
18. A car of mass 1000 kg travelling at 32 m per second dashes into the rear of a truck of mass 8000 kg moving in the same direction with a velocity of 4 m per second .after the collision the car bounces with a velocity of 8 m per second. what is the velocity of the truck after the impact?

19. Explain how is second law the real law of motion that is how it explains first and the third law.
20. Prove that horizontal range is same when angle of projection is (I) greater than 45° by certain value and (ii) less than 45° by the same value.

ASSIGNMENT ON POLITICAL SCIENCE CLASS XI

1. Why is it necessary for a country to have a clear demarcation of powers and responsibilities in the constitution? What would happen in the absence of such demarcation?
2. Many amendments to the constitution of India have been made due to different interpretation upheld by the judiciary and the parliament. explain with examples.
3. What do you mean by fundamental identity of people?
4. What are the unique features of the Indian constitution?
5. Describe any four functions of election commission of India.
6. What is meant by the term election manifesto? mention its utility.
7. Describe any three merits of universal adult franchise.
8. Mention any two drawbacks in Indian electoral system.
9. What are the five major stages of electoral process in India?
10. Describe any four functions of election commission of India.
11. How does Indian parliament control the executive?
12. Explain in detail the procedure of law making.
13. Describe the procedure of election powers and position of the speaker of a state legislative assembly.
14. Which of the houses of the Indian parliament is more powerful and why?
15. How is the constitution amended ?describe the amendment procedure.
16. Describe the composition powers and functions of The upper house of Indian parliament.
17. How is the speaker of lok sabha elected describe the powers and functions of the speaker.
18. What is mean by the term simple majority representation system?
19. What is the importance of election?
20. Examine the major suggestions for electoral reforms.

HOLIDAYS HOMEWORK ASSIGNMENT
SUB : BUSINESS STUDIES

CLASS XI

Do Miscellaneous case studies from Pg no. 52 to 57

(Unit-1) and from Pg.no. 139 to 144 (Unit-2) in your notebook.

HOLIDAYS HOMEWORK ASSIGNMENT

CLASS XI

SUB : ECONOMICS

1. Arrange the following data in ascending order.

(a) 7, 2, 10, 14, 0, 6, 15, 24, 8, 3

(b) 4.6, 8.1, 2.0, 3.5, 0.7, 9.3, 1.4, 0.8

2. Arrange the following data in descending order.

(a) 14, 2, 0, 10, 6, 1, 22, 13, 28, 4, 8, 16

(b) 1.2, 3.5, 0.1, 0.3, 2.4, 8.6, 5.0, 3.7, 0.7, 0.9

3. Construct the frequency table for each of the following.

(a) 4, 3, 6, 5, 2, 4, 3, 3, 6, 4, 2, 3, 2, 2, 3, 3, 4, 5, 6, 4, 2, 3, 4

(b) 6, 7, 5, 4, 5, 6, 6, 8, 7, 9, 6, 5, 6, 7, 7, 8, 9, 4, 6, 7, 6, 5

4. The marks obtained out of 25 by 30 students of a class in the examination are given below.

20, 6, 23, 19, 9, 14, 15, 3, 1, 12, 10, 20, 13, 3, 17, 10, 11, 6, 21, 9, 6, 10, 9, 4, 5, 1, 5, 11, 7, 24

Represent the above data as a grouped data taking the class interval 0 - 5

5. Weekly pocket expenses (in \$) of 30 students of class VIII are 37, 41, 39, 34, 71, 26, 56, 61, 58, 79, 83, 72, 64, 39, 75, 39, 37, 59, 57, 37, 53, 38, 49, 45, 70, 82, 44, 37, 79, 76.

Construct the grouped frequency table with the class interval of equal width such as 30 - 35. Also, find the range of the weekly pocket expenses.

6. Pulse rate (per minute) of 25 persons were recorded as

61, 75, 71, 72, 70, 65, 77, 72, 67, 80, 77, 62, 71, 74, 79, 67, 80, 77, 62, 71, 74, 61, 70, 80, 72, 59, 78, 71, 72.

Construct a frequency table expressing the data in the inclusive form taking the class interval 61-65 of equal width. Now, convert this data again into the exclusive form in the separate table.

7. The frequency distribution of weights (in kg) of 40 persons is given below.

Weights (in kg)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
Frequency	6	13	14	4	3

(a) What is the lower limit of fourth class interval?

(b) What is the class size of each class interval?

(c) Which class interval has the highest frequency?

(d) Find the class marks of all the class intervals?

8. Construct the frequency distribution table for the data on heights (cm) of 20 boys using the class intervals 130 - 135, 135 - 140 and so on. The heights of the boys in cm are: 140, 138, 133, 148, 160, 153, 131, 146, 134, 136, 149, 141, 155, 149, 165, 142, 144, 147, 138, 139. Also, find the range of heights of the boys.

9. Construct a frequency distribution table for the following weights (in gm) of 30 oranges using the equal class intervals, one of them is 40-45 (45 not included). The weights are: 31, 41, 46, 33, 44, 51, 56, 63, 71, 71, 62, 63, 54, 53, 51, 43, 36, 38, 54, 56, 66, 71, 74, 75, 46, 47, 59, 60, 61, 63.

(a) What is the class mark of the class intervals 50-55?

(b) What is the range of the above weights?

(c) How many class intervals are there?

(d) Which class interval has the lowest frequency?

10. Find the mean of the following data.

- (a) 9, 7, 11, 13, 2, 4, 5, 5
 (b) 16, 18, 19, 21, 23, 23, 27, 29, 29, 35
 (c) 2.2, 10.2, 14.7, 5.9, 4.9, 11.1, 10.5 (d) $1\frac{1}{4}$, $2\frac{1}{2}$, $5\frac{1}{2}$, $3\frac{1}{4}$, $2\frac{1}{2}$

11. Find the mean of first ten whole numbers.

12. Find the mean of first 5 prime numbers.

13. The mean of 8, 11, 6, 14, x and 13 is 66. Find the value of the observation x.

14. The mean of 6, 8, x + 2, 10, 2x - 1, and 2 is 9. Find the value of x and also the value of the observation in the data.

15. Find the mean of the following distribution.

(a) The age of 20 boys in a locality is given below.

Age in Years	12	10	15	14	8
Number of Boys	5	3	2	6	4

(b) Marks obtained by 40 students in an exam are given below.

Marks	25	30	15	20	24
Number of Students	8	12	10	6	4

(c)

x_i	1	2	3	4	5
f_i	4	5	8	10	3

(d) The daily wages of 50 employees in an organization are given below:

Daily wages (in \$)	100 - 150	150 - 200	200 - 250	250 - 300
Number of Workers	12	13	17	8

Find the mean daily wages.

16. Find the mode of the following data.

- (a) 12, 8, 4, 8, 1, 8, 9, 11, 9, 10, 12, 8
 (b) 15, 22, 17, 19, 22, 17, 29, 24, 17, 15
 (c) 0, 3, 2, 1, 3, 5, 4, 3, 42, 1, 2, 0
 (d) 1, 7, 2, 4, 5, 9, 8, 3

17. The runs scored in a cricket match by 11 players is as follows:

7, 16, 121, 51, 101, 81, 1, 16, 9, 11, 16
 Find the mean, mode, median of this data.

18. The weights in kg of 10 students are given below:

39, 43, 36, 38, 46, 51, 33, 44, 44, 43

Find the mode of this data. Is there more than 1 mode? If yes, why?

19. The marks obtained by 40 students out of 50 in a class are given below in the table.

Marks (in \$)	42	36	30	45	50
Number of Students	7	10	13	8	2

Find the mode of the above data.

20. The number of rupee notes of different denominations are given below in the table.

Denominations (Rs)	10	20	5	50	100
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Number of Notes	40	30	10	25	20
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Find the mode of the above data.

21. Find the median of the following data.

(a) 27, 39, 49, 20, 21, 28, 38

(b) 10, 19, 54, 80, 15, 16

(c) 47, 41, 52, 43, 56, 35, 49, 55, 42

(d) 12, 17, 3, 14, 5, 8, 7, 15

22. The following observations are arranged in ascending order. The median of the data is 25 find the value of x .

17, x , 24, $x + 7$, 35, 36, 46

23. The mean of the following distribution is 26. Find the value of p and also the value of the observation.

x_i	0	1	2	3	4	5
f_i	3	3	p	7	$p - 1$	4

Also, find the mode and the given data.

1. Evaluate,

$$\sqrt{-16} + 3\sqrt{-25} + \sqrt{-36} - \sqrt{-625}$$

2. Evaluate, $i^{29} + \frac{1}{i^{29}}$

3. Find values of x and y if,
 $(3x - 7) + 2iy = -5y + (5+x)i$

4. Find the modulus of
 $z = 3 - 2i$

5. If z is a purely imaginary number and lies on the positive direction of y-axis then what is the argument of z?

6. Find the multiplicative inverse of $5 + 3i$

7. If $|z|=4$ & argument of $z = \frac{5\pi}{6}$ then write z in the form $x + iy$; $x, y \in \mathbb{R}$

8. If z_1, z_2 are complex numbers such that, $\left| \frac{z_1 - 3z_2}{3 - z_1z_2} \right| = 1$ and $|z_2| \neq 1$ then find $|z_1|$

Hint: $|z|^2 = z\bar{z}, |z_1| = 3$

9. Find the square root of $-3 + 4i$ and verify your answer.

10. If $x = -1 + i$ then find the value of $x^4 + 4x^3 + 4x^2 + 2$

11. Draw the graph of the solution set of $x + y \geq 4$

12. Draw the graph of the solution set of $x \leq y$

13. Solve the inequalities for real x

$$\frac{2x-3}{4} + 9 \geq 3 + \frac{4x}{3}$$

14.
$$\frac{2x+3}{4} - 3 + \frac{x-4}{3} - 2$$

15.
$$-5 \leq \frac{2-3x}{4} \leq 9$$

16. $|x - 2| \geq 5$

17. $|4 - x| + 1 < 3$

16. The water acidity in a pool is considered normal when the average PH reading of three daily measurements is between 7.2 and 7.8. If the first two PH readings are 7.48 and 7.85, find the range of PH value for the third reading that will result in the acidity level being normal.

Ans. Between 6.27 and 8.07

17. While drilling a hole in the earth, it was found that the temperature (T °C) at x km below the surface of the earth was given by $T = 30 + 25(x - 3)$, when $3 \leq x \leq 15$.

Between which depths will the temperature be between 200°C and 300°C?

Solve the following systems of inequalities graphically :

Ans. Between 9.8 m and 13.8 m

18. Solve the system of inequalities for real x :

$$\frac{5x}{4} + \frac{3x}{8} > \frac{39}{8} \text{ and } \frac{2x-1}{12} - \frac{x-1}{3} < \frac{3x+1}{4}$$

Class – XI

Accountancy Assignment

Make assignment of following additional questions

Ch-6 : Accounting Equation – Q No. 22 – 29

Ch-9 : Journal – Q No. 31 – 37

Ch-12 : Subsidiary Books – Q No 11 – 15

Class XI Sociology Assignment (Introducing Sociology)

Q1.What is marriage?

Q2.State a few objectives of marriage.

Q3.State any two functions of marriage.

Q4.What is exogamy?

Q5.How joint family is different from nuclear family?

Q6. What do you mean by wage?

Q7. What is contract?

Q8. What are Economic Institutions?

Q9. What is state?

Q10. What is a welfare state?

Q11. Explain concepts of power and authority.

Q12. Note what are the marriage rules that are followed in your society. Compare your observations with those made by other students in the class. Discuss.

Q13.Find out how membership, residence pattern and even the mode of interaction changes in the family with broader economic, political and cultural changes-for instance migration.

Q14.Write an essay on 'work'. Focus on both the range of occupations, which exist and how they change.

Q15.Discuss the kind of rights that exist in your society. How do they affect your life?

Q16.How does sociology study religion?

Q17.Write an essay on school as a social institution. Draw from both your reading as well as your personal observations.

ग्रीष्मावकाश कार्य

कक्षा- ग्यारहवीं

*दिए गए प्रश्नों को हिंदी अभ्यास -पुस्तिका में लिखें।

गद्य भाग

प्रश्न 1- वंशीधर को सरकारी नौकरी से क्यों हटा दिया गया?

प्रश्न2- मुकदमा हारने पर वंशीधर के परिजनों ने उसके साथ कैसा व्यवहार किया ?

प्रश्न3- कहानी के अंत में अलोपीदीन के वंशीधर के नियुक्त करने के पीछे क्या कारण हो सकते हैं? तर्क सहित उत्तर दीजिए।

प्रश्न 4-मियां नसीरुद्दीन के व्यक्तित्व और चरित्र की विशेषताओं का वर्णन कीजिए।

प्रश्न5- इल्म या हुनर सीखने के लिए किन बातों की आवश्यकता होती है? मियां नसीरुद्दीन के अनुसार सोदाहरण स्पष्ट कीजिए।

प्रश्न6- किसी फिल्म की शूटिंग करते समय फिल्मकार को किन समस्याओं का सामना करना पड़ता है?

प्रश्न7- विदाई का समय करुणोत्पादक होता है- इस तथ्य को सा परिमाण सिद्ध कीजिए ।

प्रश्न8- लॉर्ड कर्जन की इच्छा क्या थी ?उसका क्या कुपरिणाम हुआ?

प्रश्न9- रमेश बाबू मोहन को किस नियत से लखनऊ ले गए ?

प्रश्न 10-गलता लोहा कहानी के आधार पर मोहन का चरित्र चित्रण कीजिए।

पद्य भाग

प्रश्न 11-अपनी मां के बारे में कवि ने क्या भाव प्रकट किए हैं?

प्रश्न12- लेखक चंपा को पढ़ने के लिए किस प्रकार प्रेरित करता है ?

प्रश्न13- इस कविता में पूर्वी प्रदेशों की स्त्रियों की किस विडंबनात्मक स्थिति का वर्णन हुआ है?

प्रश्न14- ग़ज़ल नामक कविता का प्रतिपाद्य स्पष्ट कीजिए।

प्रश्न15- क्या महादेवी को कन्नड़ की मीरा कहा जा सकता है ?

प्रश्न 16*कवयित्री स्वयं को निरीह और बेचारा क्यों बनाना चाहती है ?

वितान

प्रश्न 17- चित्रपट संगीत में लोगों के कान बिगाड़ दिए -अक्सर यह आरोप लगाया जाता रहा है ।इस संदर्भ में कुमार गंधर्व की राय और अपनी राय लिखिए।

प्रश्न 18-शास्त्रीय तथा चित्रपट संगीत में क्या अंतर है ?

प्रश्न 19-भूमि के अंदर भीषण गर्मी में चेज़ारो के लिए ताजा हवा का प्रबंध कैसे किया जाता है ?

प्रश्न 20-कुई की खुदाई फावड़े से क्यों नहीं की जाती?

Class XI

Punjabi Assignment

*1 ਰਿਸ਼ਤੇ ਲਈ ਕੰਨਿਆਂ ਦੀ ਲੋੜ ਸਬੰਧੀ ਅਖ਼ਬਾਰ ਵਿੱਚ ਦੇਣ ਲਈ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ ।

* ਰਸਮ ਪਗੜੀ ਲਈ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ

* ਬੱਚੇ ਦੇ ਜਨਮ ਦੀ ਖਬਰ ਦੇਣ ਲਈ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ

* ਨਲਾਇਕ ਪੁੱਤਰ ਦੇ ਜਾਇਦਾਦ ਤੋਂ ਬੇਦਖਲੀ ਸੰਬੰਧੀ ਪਿਤਾ ਵੱਲੋਂ ਅਖ਼ਬਾਰ ਵਿੱਚ ਦੇਣ ਲਈ ਇਸ਼ਤਿਹਾਰ ਲਿਖੋ ।

* 2 ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਓ

੫) ਲੂਣਾ ਨੇ ਪੂਰਨ ਉੱਤੇ ਝੂਠੀ ਤੁਹਮਤ ਕਿਉਂ ਲਾਈ ?

੫) ਪੂਰਨ ਗੋਰਖ ਨਾਥ ਦੇ ਸੰਪਰਕ ਵਿੱਚ ਕਿਵੇਂ ਆਇਆ ?

੫) ਕੋਕਲਾਂ ਦੇ ਜੀਵਨ ਦਾ ਅੰਤ ਕਿਵੇਂ ਹੋਇਆ ?

੫) ਰਾਜੇ ਦੀ ਹੀਰ ਨਾਲ ਪਹਿਲੀ ਮੁਲਾਕਾਤ ਕਿਵੇਂ ਹੋਈ ?

੫) ਹੀਰ ਤੇ ਰਾਂਝੇ ਦਾ ਮਾਮਲਾ ਕਾਜ਼ੀ ਕੋਲ ਕਿਉਂ ਪਹੁੰਚ ਗਿਆ ?

੫) ਬੇਟੀ ਚੰਨਣ ਦੇ ਓਹਲੇ ਲੋਕ ਗੀਤ ਵਿਚ ਕਿਸ ਵਿਸ਼ੇ ਤੇ ਵਾਰਤਾਲਾਪ ਹੁੰਦਾ ਹੈ ਤੇ ਕਿੰਨਾ ਧਿਰਾਂ ਵਿਚਕਾਰ ਹੁੰਦਾ ਹੈ?

੫) ਨਿਵੇ ਪਹਾੜਾ ਦੇ ਪਰਬਤ ਸੁਹਾਗ ਵਿਚ ਕੁੜੀ ਦੇ ਵਿਆਹ ਸਮੇਂ ਡੋਲ ਰਹੇ ਪਰਿਵਾਰ ਵਾਲਿਆਂ ਨੂੰ ਕਿਹੜੇ ਕਿਹੜੇ ਸ਼ਬਦਾਂ ਨਾਲ ਦਿਲਾਸਾ ਦਿੱਤਾ ਗਿਆ ਹੈ ?

੫) ਸਾਡਾ ਚਿੜੀਆਂ ਦਾ ਚੰਬਾ ਸੁਹਾਗ ਵਿਚ ਬਾਬਲ ਆਪਣੀ ਵਿਆਹੀ ਗਈ ਧੀ ਦੇ ਪੇਕੇ ਘਰ ਰਹਿਣ ਦੇ ਕਿੱਸੇ ਤਰਲੇ ਨੂੰ ਕਿਉਂ ਨਹੀਂ ਮੰਨ ਰਿਹਾ ?

੫) ਹਰਿਆ ਨੀ ਮਾਲਣ ਘੋੜੀ ਵਿਚ ਮੁੰਡੇ ਦੇ ਜੱਮਣ ਤੇ ਕਿਹਨੂੰ ਕਿਹਨੂੰ ਅਤੇ ਦਿਆਂ ਸੁਰਜਣਾ ਘੋੜੀ ਵਿੱਚ ਕਿਹੜੇ ਕਿਹੜੇ ਤੋਹਫ਼ੇ ਦਿੱਤੇ ਗਏ ?

੫) ਮੱਥੇ ਤੇ ਚਮਕਣ ਵਾਲ ਘੋੜੀ ਵਿੱਚ ਸ਼ਗਨਾਂ ਤਾਂ ਗਾਲਾਂ ਤੇ ਮਹਿੰਦੀ ਕਿਸ ਦੇ ਲਾਈ ਜਾਂਦੀ ਹੈ ?