

23.12.17.

- Q1. The narrator of the lesson 'Two Gentlemen of Verona' is sensitive and compassionate by nature. Justify.
- Q2. Louisa Mebbin was extremely materialistic. Elaborate.
- Q3. You are Lavinia. You saw the ghost Helen in John's library. Write a diary entry expressing your feelings regarding the ghost and how your marriage almost fell apart.
- Q4. How did Patel Babu prove the words of Gogon Pakrashi to be true?
- Q5. Give three qualities of the frog and support your answer with examples from the poem.
- Q6. How does the mirror describe itself in the first stanza.
- Q7. Explain how William Shakespeare has portrayed the power of the rhyme 'Not Marble Nor the Gilded Monuments.'
- Q8. The poem brings out affection and admiration of the poet for his friend in 'Not Marble Nor the Gilded Monuments'. Elaborate.
- Q9. Bring out the irony of the lines 'My name is Ozymandias King of Kings Look on my works, ye Mighty, and despair'.
- Q10. How has the poet described the inability of the sailors to speak?
- Q11. The poet had mixed feelings throughout the poem 'Snake'. Justify.
- Q12. Elizabeth and Amelia are similar in many ways. Justify.
- Q13. How did Decius Brutus interpret Calpurnia's dream and how did this influence Caesar?
- Q14. Materialism has taken priority over the warmth of relationships. Justify with reference to 'The Dear Departed'.
- Q15. Our minds are being trained to attack or kill at the very sight of something which may seem even distantly threatening. How does the poet demonstrate this attitude? Do you think this act is justifiable? (Snake)

- Q16. One thoughtless action of an unscrupulous person can lead to uncountable moments of misery. How has this been brought to light in *The Rime of the Ancient Mariner*.
- Q17. Vanity leads to disappointments and despair. How is this demonstrated in *Mirror*.
- Q18. It is important to recognise our own talents and use them to the best of our ability and not blindly follow what others want us to do? Support your answer with instances from '*The Frog and the Nightingale*'.
- Q19. Technology is drifting us away from reality. Even the simplest of joys are now becoming unreal and virtual. Justify the statement in reference to *Virtually True*.
- Q20. Every major creation is a combination of minor achievements. Explain how this has been exemplified in the character of *Patol Babu*.
- Q21. Misunderstandings can break relationships. In your opinion what should *Hallock* have done to avoid the misunderstanding that almost ended their marriage?
- Q22. Imagine you are *Antony* and *Caesar's* assassination has grieved you. Write a diary entry expressing your feelings of loyalty and make a prophecy for *Rome* and its citizens.

- All questions are compulsory.
- The question paper consists of 30 questions divided into four sections – A,B,C,D
Section A consists of 6 questions of 01 marks each, Sections B contains 6 questions of 02 marks each, Section C contains 10 questions of 03 marks each and Section D contains 8 questions of 04 marks each.

Section A

1. Find the value of p for which the equation $px^2 - 5x + p = 0$ has equal roots.
2. Find the probability of getting 53 Sundays in a non-leap year.
3. The coach of a cricket team buys 7 bats and 6 balls for Rs3800. Next day he buys 3 bats and 5 balls for Rs 1750. Represent the situation algebraically.
4. A chord of a circle of radius 12 cm subtends an angle of 120° at the centre. Find the length of corresponding arc.
5. Find the point on the y-axis which is equidistant from the points (-5, -2) and (3,2).
6. Area of a sector of a circle is $\frac{1}{6}$ of the area of the circle. Find the degree measure of its minor arc.

Section B

7. Which term of the Arithmetic Progression 3, 10, 17,will be 84 more than its 13^{th} term?
8. Circumference of the edge of hemispherical bowl is 132 cm. Find the capacity of the bowl.
9. If $A = 15^\circ$, verify that $4\sin 2A \cos 4A \sin 6A = 1$
10. Evaluate: $\frac{\operatorname{cosec} 13^\circ - \cot 20^\circ}{\sec 77^\circ \tan 70^\circ}$
11. The points $A(0,3)$, $B(-2,y)$ and $C(-1, 4)$ are the vertices of a $\triangle ABC$ right angled at A. Find the value of y.
12. A card is drawn from a pack of 52 cards. Find the probability of having:
 - i) A face card
 - ii) a black face card

Section C

13. Solve the following system of linear equations graphically:
 $3x + 2y + 4 = 0$; $3x - 2y + 8 = 0$
14. The difference of the square of two numbers is 45. The square of the smaller number is 4 times the larger number. Determine the numbers.
15. Show that: $\frac{\tan^3 A}{1 + \tan^2 A} + \frac{\cot^3 A}{1 + \cot^2 A} = \sec A \operatorname{cosec} A - 2 \sin A \cos A$
16. Determine the ratio in which the line $y - x + 2 = 0$ divides the line segment joining the points (3, -1) and (8, 9).
17. Construct a right triangle in which the sides (other than hypotenuse) are of lengths 4 cm and 3 cm. Then construct another triangle whose sides are $\frac{5}{3}$ times the corresponding sides of the given triangle.
18. One card is drawn from a well shuffled pack of 52 cards. Find the probability of drawing:
 - i) An ace
 - ii) '2' of spades
 - iii) '10' of black suit
19. Two men on either side of a 75 m high building and in line with base of building observe the angles of elevation of the top of the building as 30° and 60° . Find the distance between the two men. ($\pi = \frac{22}{7}$)
20. Prove that $(\cot A - \operatorname{cosec} A)^2 = \frac{1 - \cos A}{1 + \cos A}$

21. The ninth term of an A.P. is equal to seven times the second term and the twelfth term exceeds five times the third term by 2. Find the first term and the common difference.
22. A cubical block of side 10 cm is surmounted by a hemisphere. What is the largest diameter that the hemisphere can have? Find the cost of painting the total surface area of the solid so formed, at the cost of Rs 5 per 100sq.cm. ($\pi = 3.14$)

Section C

23. A number x is selected at random from the numbers 1, 2, 3, and 4. Another number y is selected at random from the numbers 1, 4, 9 and 16. Find the probability that product of x and y is less than 16.
24. In $\triangle ABC$, $AD \perp BC$ and point D lies on BC such that $2DB = 3CD$. Prove that $5AB^2 = 5AC^2 + BC^2$.
25. Vertical angles of two isosceles triangles are equal. If their areas are in the ratio 16:25, then find the ratio of their altitudes drawn from vertex to the opposite side.
26. A train travelling at a uniform speed for 360 km would have taken 48 minutes less to travel the same distance if its speed were 5 km/hr more. Find the original speed of the train.
27. The following distribution shows the daily pocket allowance of children of a locality. The mean pocket allowance is Rs 18. Find the missing frequency k .

Daily pocket allowance(in Rs)	11-13	13 - 15	15 - 17	17 - 19	19 - 21	21 - 23	23 - 25
Number of children	3	6	9	13	k	5	4

28. Construct a triangle ABC with $BC = 7$ cm, $\angle B = 60^\circ$ and $AB = 6$ cm. Construct another triangle whose sides are $\frac{3}{4}$ times the corresponding sides of $\triangle ABC$.
29. In a hospital used water is collected in a cylindrical tank of diameter 2 m and height 5 m. After recycling this water is used to irrigate a park of hospital whose length is 25 m and breadth is 20 m. if tank is filled completely then what will be the height of standing water used for irrigating the park. Write your views on recycling of water.
30. If the equation $(1 + m^2)x^2 + 2mcx + (c^2 - a^2) = 0$ has equal roots, prove that $c^2 = a^2(1 + m^2)$

SAMPLE PAPER
CLASS: X

SUBJECT: FOUNDATION OF INFORMATION TECHNOLOGY

TIME: 2 ½ Hrs.

1. (a) What do you understand by blog? 1
(b) Multimedia documents are transferred through Internet using which protocol? 1
(c) Files that are available for FTP are stored on computers called what? 1
(d) Web standards are the format and non-proprietary standards that define and describe aspects of the www. Who is making the web standards? 1
(e) Differentiate between Cc and Bcc fields of an e-mail. 2
(f) Write down any two features of www. 2
(g) Name and define two types of web browsers. 2

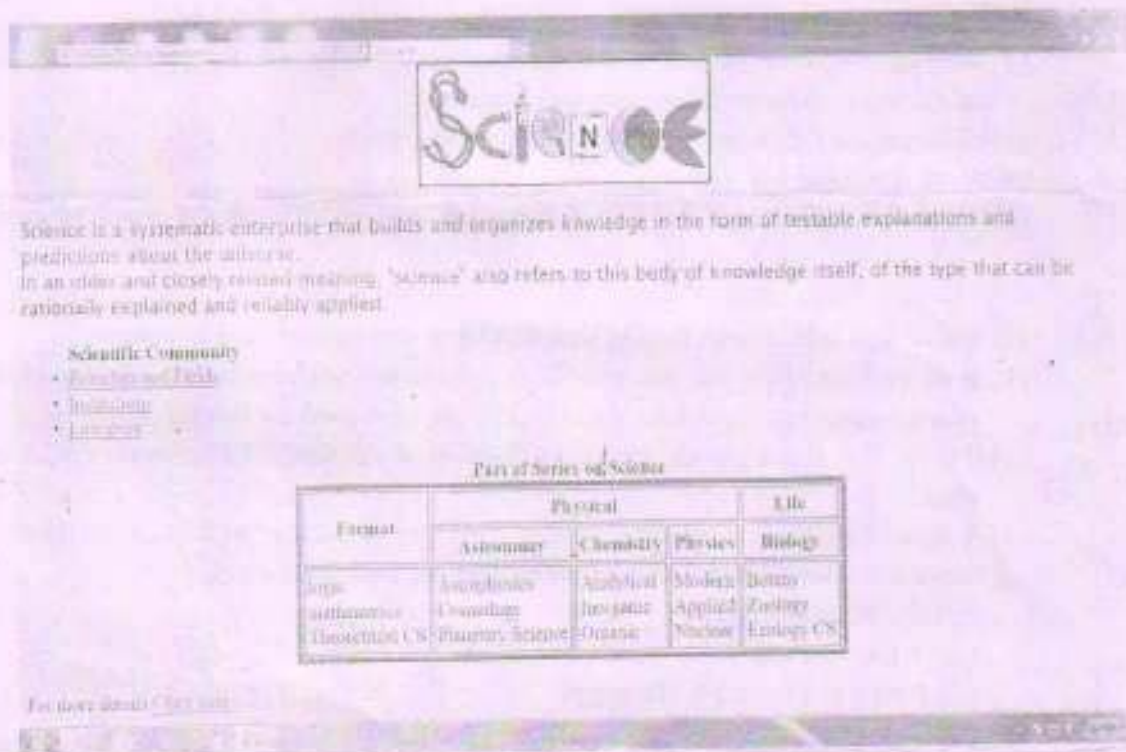
2. (a) Which data type allows storing long blocks of text that use text formatting? 1
(b) In case of not losing the data and file in a computer, you created a copy of data and files in your computer on hard disk. What will be the term used for this function? 1
(c) If more than one duplicate record are found in any database for an entity then it is known as what? 1
(d) A field of a table that references the primary key of another table is called what? 1
(e) Name one specific software/tool for each of the following category - 2
(i) Data Recovery Tool
(ii) Online Backup Tool
(iii) Editor to Create HTML pages
(iv) Antivirus
(f) How can we prevent unauthorized downloading and computer virus attacks? 2
(g) Differentiate between boot sector virus and file system virus. 2

3. (a) To specify the outer portion of a table border, which attribute is mostly used in HTML. 1
(b) In which form, XML data can be stored inside HTML pages? 1
(c) What is the correct syntax of the declaration, which defines the XML version? 1
(d) What is the default number of value of size attribute of tag? 1
(e) Which attribute of the <A> tag takes the URL of the linked file? 1
(f) Write any two rules for defining elements in XML. 1
(g) Identify the root element in the following XML document and draw its tree structure also. 2

```
<BINDAL>  
  <DEPARTMENT>  
    <NAME> Computer </NAME>  
    <CODE> 067 </CODE>  
  </DEPARTMENT>  
</BINDAL>
```


(f) Why XML parser is used? Explain 2

4. (a) Define DBA. 1
 (b) Write two differences between XML and HTML, except fullform. 1
 (c) Write any two advantages of e-shopping. 1
 (d) Write any two advantages of e-learning. 1
 (e) Observe the following webpage and write the HTML code to generate it. 6



Science is a systematic enterprise that builds and organizes knowledge in the form of testable explanations and predictions about the universe.
 In an older and closely related meaning, "science" also refers to this body of knowledge itself, of the type that can be rationally explained and reliably applied.

Scientific Community

- Branches and Fields
- Institutions
- Literature

Part of bodies of Science

Format	Physical			Life
	Astronomy	Chemistry	Physics	Biology
http://	Astrophysics	Analysis of	Modern	Genetics
software/	Evolutionary	Inorganic	Applied	Zoology
Theoretical CS	Pharmaceutical Science	Organic	Nuclear	Ecology CS

For more details click here

Instructions

- (i) Title of the page is "Science".
- (ii) Background color of the page is pink.
- (iii) Heading of the page as image - "science.jpg".
- (iv) Link color is green.
- (v) Table border is 2px and cellpadding is 3px.
- (vi) font face is "lucida sans".
- (vii) Use links as -
 - For Branches and Fields as branch.html.
 - For Institutions as ins.html.
 - For Literature as lit.html.
- (viii) e-mail id for more details is science@enquiry.com

(Based on Ch 1, 2, 3, 4 and 5)

- (1) Give an example each of an exothermic and an endothermic process.
- (2) Name the reaction in which one of the reacting species loses electrons while the other gains electrons.
- (3) Name the gas that is used by manufacturers to fill the packets of chips to prevent them from getting oxidised.
- (4) All single displacement reactions are irreversible reactions. Explain.
- (5) In what ways are chemical equations useful for us?
- (6) How is the concentration of H_3O^+ ions affected when a solution of an acid is diluted?
- (7) What effect does the concentration of $H^+(aq)$ have on the acidic nature of solution?
- (8) What is the common name and chemical name of the compound $CaOCl_2$?
- (9) To an aqueous solution of sodium hydroxide, a few drops of phenolphthalein were added. What do you observe? To this solution small amount of dil HCl was added. What do you observe now? Explain your answer.
- (10) Why is sodium hydrogen carbonate an essential ingredient in antacids?
- (11) Why ionic compounds do not conduct electricity in solid state although they are made up of ions?
- (12) Pure gold is very soft, then how it is used to make ornaments?
- (13) Elements present at the top of the reactivity series are stored under oil. Give reason.
- (14) Why hydrogen gas is not evolved when zinc metal reacts with dil. HNO_3 ?
- (15) Why oxides of highly reactive metals cannot be reduced by carbon?

- (16) What are the general formula for alkane, alkene and alkyne?
- (17) Why do alkanes burn with blue or clean flame?
- (18) Give the names of the following functional groups -
(a) $-CHO$ (b) $-OH$ (c) $-COOH$.
- (19) An element of group 14 has two common allotropes A and B. A is very hard and is bad conductor of electricity while B is soft to touch and good conductor of electricity. Identify the element and its allotropes. Explain reasons for their different properties.
- (20) How can we distinguish ethanoic acid and an ethanol using their chemical properties. Write any three differences.
- (21) Why do we need to classify elements?
- (22) What is meant by periodicity in properties of elements with reference to periodic table?
- (23) The number of electrons increases in the outer shell as we move from left to right in a period, why does the atomic size of an atom decrease?
- (24) (a) Can the following groups of elements be classified as Dobereiner's triad:
(i) Na, Si, Cl (ii) Be, Mg, Ca
[Atomic mass of Be = 9, Na = 23, Mg = 24, Si = 28, Cl = 35 and Ca = 40]
Explain by giving reason.
- (24) (b) Upto which element, the law of octaves was found to be applicable?
- (25) Consider the following elements:
Na (11), Al (13), Cl (17) & K (19)
For the given elements, find out
(i) Valency (ii) Period number (iii) Group number

General Instructions:

- (i) The question paper comprises of two Sections, A and B. You are to attempt both the sections.
- (ii) All questions are compulsory. However, an internal choice will be provided in two questions of 3 marks each and one question of five marks.
- (iii) All questions of Section A and all questions of Section B are to be attempted separately.
- (iv) Question numbers 1 to 2 in Section A are one-mark questions. These are to be answered in one word or in one sentence.
- (v) Question numbers 3 to 5 in Section A are two-marks questions. These are to be answered in about 30 words each.
- (vi) Question numbers 6 to 15 in Section A are three-marks questions. These are to be answered in about 50 words each.
- (vii) Question numbers 16 to 21 in Section A are five-marks questions. These are to be answered in about 70 words each.
- (viii) Question numbers 22 to 27 in Section B are two-marks questions based on practical skills. These are to be answered in brief.

SECTION-A

1. Test tubes A and B initially have brown colour solution known as bromine water. On passing methane in test tube A, there is no change whereas on passing ethene in test tube B decolorization of bromine water takes place. Account for the decolorization of bromine water in test tube B.
2. Recycling is considered as a welcome practice to deal with the environmental problems. Justify this statement with one argument.
3. In the following chemical reactions, A, B and C are the three elements taking part in the reactions :

$$A_2O_3 + 2B \longrightarrow B_2O_3 + 2A$$

$$3CSO_4 + 2B \longrightarrow B_2(SO_4)_3 + 3C$$

$$3CO + 2A \longrightarrow A_2O_3 + 3C$$

Answer the following questions giving reasons :

- (a) Name the most reactive element. (b) Name the least reactive element.
4. State the property utilised in the following:
 - (a) Graphite is used in making electrodes.
 - (b) Electrical wires are coated with polyvinyl chloride (PVC) or a rubber-like material.
5. Which type of lens has a negative power? The power of a lens is +5D. Find its focal length in meters.
6. (a) A solution has a pH of 7 (seven). Explain how you would
 - (i) increase its pH
 - (ii) decrease its pH
- (b) If a solution changes the colour of the litmus from red to blue, what can you say about its pH?
- (c) What can you say about the pH of a solution that liberate CO_2 from sodium carbonate? Write the balanced chemical equation for the reaction.
7. An element has electronic configuration 2, 8, 7.
 - (a) To which group and period of the Modern Periodic Table does it belong?
 - (b) What is the atomic number of this element? Is it metallic or non-metallic and why?
 - (c) Identify the element and name an element chemically similar to this element.

OR

- (a) State the Modern Periodic Law.
- (b) What is the basis of arranging the elements in the Modern Periodic Table?
- (c) How does this remove the problem of positioning of isotopes?
8. In mammals and birds, why is it necessary to separate oxygenated and de-oxygenated blood?
9. State the importance of tropic movements in plants. List two such movements.

10. All dead organisms do not leave their fossil records, but in some cases their fossils are formed. How do these fossil records form a direct evidence of past happenings?
11. State the type of image formed on eye lens. Explain how image is transferred to brain.
12. A 1.1 kW heater is connected to 220 V mains. Calculate:
- the current flowing through the heater.
 - the resistance of the heater.
 - the electrical energy consumed in kWh if the heater is used on an average for 1 hour daily in a month of 30 days.
13. State the rule to determine the direction of a :
- magnetic field produced around a straight conductor carrying current.
 - force experienced by a current carrying straight conductor placed in a magnetic field which is perpendicular to it.
 - current induced in a coil due to its rotation in a magnetic field.

OR

What is 'overloading' of an electric circuit? State two conditions that can lead to overloading of a circuit. How can it to be prevented?

14. Why is it not possible to make use of solar cells to meet all our energy needs? State at least three reasons to support your answer.
15. Over population is leading to over usage of fertilizers and pesticides to increase food production which is harmful to the environment. Now-a-days organic farming is increasing to prevent bio-magnification of chemicals. Rex felt that pesticides do not enter our food grains as they are covered with chaff. His brother Ted disagreed with him as he had read that - these grains have varying amounts of pesticide residues which cannot be removed by washing or other means.
- How do pesticides and fertilizers affect soil?
 - What is the advantage of organic farming?
 - What is biological magnification?
 - With whom do you agree, Rex or Ted? Give reason.
16. Write the names and symbols of two most reactive metals. Explain by drawing electronic structure how any one of them reacts with a halogen. Explain any two physical properties of the compound formed.
17. (a) What are hydrocarbons? List two categories in which these compounds may be classified.
(b) What are alkanes, alkenes and alkynes? Write one distinguishing feature of each.
18. (a) Draw diagram of human alimentary canal and label the following:
- Part in which starch digestion starts.
 - Part in which bile is stored.
 - Part in which nutrients are absorbed.
 - Part in which water is absorbed.
- (b) Mention the role of hydrochloric acid in the stomach.
- (c) What function is served by the following?
- Gastric sphincter
 - Anal sphincter
19. (a) Identify the process depicted in the picture given below:



1. Parent cell



2. Nucleus divides



3. Cytoplasm divides



4. Two daughter cells

- Name the organism that divides by the above process.
- Compare the above process with multiple fission.
- State the type of reproduction in the above process and define it.

(b) Differentiate between fission in *Amoeba* and *Leishmania*.

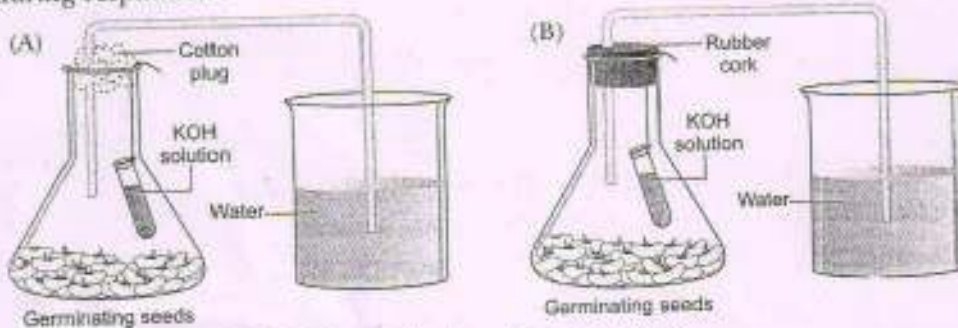
OR

Describe artificial methods of vegetative propagation.

20. (a) Write four characteristics of image formed by a plane mirror.
(b) Mention the similarities between image formed by a plane mirror and a convex mirror.
(c) Differentiate between a converging and diverging mirror. Draw a diagram to illustrate the diverging property of diverging mirror.
21. Two resistors with resistance of $10\ \Omega$ and $15\ \Omega$ are connected to a battery of $12\ \text{V}$ so as to obtain and measure (a) minimum electric current (b) maximum electric current.
(i) State the mode of connecting the resistors in each case with the help of a circuit diagram.
(ii) Calculate the strength of total electric current in the circuit in each case.

SECTION-B

22. A strip of copper was placed in a beaker containing zinc sulphate solution. On observing the strip next day, was there any colour change in the strip?
23. A teacher warned the students to take some precaution while using acetic acid in laboratory for an experiment to study its properties. Mention any two precautions.
24. The following experimental set-ups were kept in the laboratory to show that ' CO_2 is given out during respiration'.



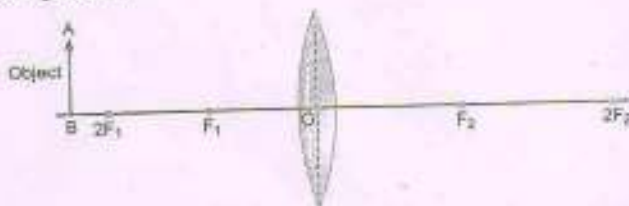
After 2 hours, in which delivery tube does the water rise?

25. While observing a slide of budding in yeast, a student follows the following steps :

- (a) Place the slide on the stage and fix it using the clip
(b) Adjust the mirror and diaphragm
(c) Focus using low power
(d) Adjust to high power

Is the sequence of steps correct? If not, correct the sequence of steps.

26. Redraw the following incomplete ray diagram of the object placed in front of the convex lens and complete it.



27. An ammeter has 20 divisions between mark 0 and mark 2 on its scale. Find the least count of the ammeter.

Social Science Assignment

Class – X

1. Who led the peasant movement in Awad during the non-cooperation movement?
2. Which countries were known as Axis Power?
3. What are potential resources?
4. What is gram Panchayat?
5. What does the horizontal power sharing signify?
6. Why do banks keep a small proportion of deposits as cash with themselves?
7. Define soil erosion?
8. Who were scribes?
9. What are hydraulic structures?
10. What are residuary power?
11. Which organization provides certification of standardization in India?
12. What was the out come of Congress session at Madras in 1927?
13. Why Peter Norman, who was neither black nor American joined the gesture?
14. Why is democracy considered a better form of government?
15. What are multinational companies?
16. Discuss the short coming of Manuscript.
17. What was the effect of Great Depression on India?
18. Discuss the physical requirements for the cultivation of Rice, Wheat, Sugar and Cotton.
19. Describe any three major problems faced by road transportation in India.
20. Discuss how Social division are based on birth.
21. With examples show how power can be shared between social and linguistic groups.
22. When does a social difference become a Social division?
23. State any three features of NREGA 2005.
24. Describe three advantages of self help group for the poor.
25. What are the advantages of globalization?
26. What were the effects of Rinderpest in Africa.
27. Explain the reasons for the Luke warm response of some Muslim organisations to the Civil Disobedience Movement?
28. What was almanac ?
29. What factors make mineral extraction commercially viable? How do export of good quality are affect our economy?
30. Where are most of the jute industries located in India? State any 4 challenges faced by the jute industries in India.
31. Suggest any 5 reforms for political parties & leaders in India.
32. List the salient features of Consumer protection Act 1986.
33. What factors have strengthened democracy in India.
34. Workers are exploited in the unorganized sector. Do you agree with it? Support with reasons.

श्री सनातन धर्म एजुकेशन सेन्टर
कक्षा - दस हिन्दी
शीतकालीन गृह कार्य (२०१७-१८)

- प्र०१ ऊहापोह किसे कहते हैं? नगर पालिका के अधिकारी कौन सी ऊहापोह में थे?
- प्र०२ 'वाह! भई खूब! क्या आइडिया है' इस कथन द्वारा क्या स्पष्ट किया गया है?
- प्र०३ पाठ में युवा पीढ़ी के प्रति निहित संदेश स्पष्ट कीजिए।
- प्र०४ 'बाल गोविन भगत' पाठ किसके द्वारा लिखा गया लेखक उनकी कौन सी विशेषता के कारण इनका आदर करते थे?
- प्र०५ भादों में भगत कौन से भजन गाते थे और उनका क्या अभिप्राय है?
- प्र०६ लेखक सूर्योदय से पहले पोखर पर क्यों पहुँचे? वहाँ पर क्या देखकर चकित रह गए?
- प्र०७ 'लखनवी अंदाज का क्या अर्थ है?
- प्र०८ लेखक ने कैसे अंदाज लगाया कि नवाब साहब को खीरे बहुत पसंद हैं?
- प्र०९ 'ज्ञान धनु' खुल गए का क्या अभिप्राय है?
- प्र०१० फादर ने कहीं तक शिवा प्राप्त की?
- प्र०११ 'परिमल' संस्था का परिचय दो?
- प्र०१२ लेखक ने ऐसा क्यों कहा कि फादर को जहरबाद से नहीं मरना चाहिए?
- प्र०१३ अज्ञेय के दो उपन्यासों के नाम लिखिए तथा चित्रलेखा किसने लिखा है?
- प्र०१४ दसवीं कक्षा पास करने के बाद लेखिका ने जिन पुस्तकों को पढ़ना आरंभ किया उनसे उन्हें कौन से क्षेत्रों में कार्य करने की प्रेरणा मिली?
- प्र०१५ आजादी की लड़ाई में अपनी भागीदारी के विषय में लेखिका के क्या विचार थे?
- प्र०१६ प्राकृत भाषा सुपंडितों की भाषा थी- इस बारे में प्रमाण दीजिए।
- प्र०१७ महावीर प्रसाद की दृष्टि आधुनिक है- सिद्ध कीजिए।
- प्र०१८ विस्मिल्ला खॉं का असली नाम क्या था? वे कौन से स्थान में शहनाई वादन कर ईश्वर की उपासना करते थे?
- प्र०१९ पाठ में कौन से लोकगीत एवं रागों के नाम आए हैं?
- प्र०२० विस्मिल्ला खॉं कौन सा वाद्य बजाते थे? इससे मिलते-जुलते वाद्यों के नाम लिखिए।
- प्र०२१ पाठ में संस्कृति की परिभाषा में काफी अन्तर्विरोध है- सोदाहरण स्पष्ट कीजिए।
- प्र०२२ एक संतुष्ट मनुष्य को संस्कृत बनने के लिए किस गुण की आवश्यकता है?