Class 6th Autumn Holidays Homework

Maths

Q1. Prepare your MDP(Multi- Disciplinary Project)on the topic "Health and Yoga".

Q2. Complete your Learner's Diary.

Q3. Give five examples from your day to day life where you use fractions.

Q4. Represent the following fractions on the number line: 1/4 ,3/5 , -4/7 , -3/8.

Q5. What is fraction? Discuss various types of fractions.

Q6. Arya, Abhimanyu, and Vivek shared lunch. Arya has brought two sandwiches, one made of vegetable and one of jam. The other two boys forgot to bring their lunch. Arya agreed to share his sandwiches so that each person will have an equal share of each sandwich. (a) How can Arya divide his sandwiches so that each person has an equal share? (b) What part of a sandwich will each boy receive?

Q7. Kanchan dyes dresses. She had to dye 30 dresses. She has so far finished 20 dresses. What fraction of dresses has she finished?

Q8.Write the natural numbers from 2 to 12. What fraction of them are prime numbers?

Q9. Write the natural numbers from 102 to 113. What fraction of them are prime numbers?

Q10. Express the following as mixed fractions : (a) 20/3 (b) 11/5 (c) 17/7 (d) 28/5 (e) 19/6 (f) 35/9

English

- 1. Write ten Homophones and differentiate between them using pictures. Also make sentences using these homophones.
- 2. Write the names of any two Asanas and write their steps.

Science

- Multidisciplinary Project: (Yoga and Health)
 - Enlist 10 benefits of yoga on mind and body.
 - Prepare a poster showing the steps of Surya Namaskar.
 - Explain any 5 Asanas in yoga with diagrams.

Prepare Learner's diary in described format.

Make a working model for science exhibition (voluntary)

Social Science

Paste pictures of the four seasons in India. Write four lines on the season

you love the most.

2. Paste five pictures of festival of Dussehra.

- 3. Prepare a small diary on your hobbies.
- 4. Take a political map of India and mark all the states on it.
- 5. Watch news every day and enjoy your holidays.

Hindi

- 1. कारक किसे कहते हैं ? इसके भेद के नाम भी लिखो ।
- 2. भाववाचक संज्ञा के 10 उदाहरण लिखकर वाक्य बनाओ ।
- 3. योग के महत्व पर पाँच पंक्तियां लिखिए।
- 4. योग से संबंधित पाँच चित्र बनाओ ।

Sanskrit

- 1. सूक्तिस्तबक: पाठ के सभी श्लोकों को कण्ठस्थ करो
- 2. " बालक " शब्द के रूपो को सभी विभक्तियों में याद करो
- 3. "पठ्" धातु के रूपों को सभी लकारों में लिखो व याद करो
- 4. योगरस्य कॉनिचित् पञ्च वाक्यानि रचयत
- 5. योगविषये कमप्येकं श्लोकं लिखत (नोट : प्रश्न 4 और 5 MDP)

Art

1. Draw a poster drawing on A.I. or Cyber security or exam stress in A3 size sheet and colour it using any colour (water colours or crayon colours).

2. Draw a beautiful landscape on A4 size sheet and paint it using water colours.

3 Diya decoration with color or mirror and dori.(any one)

Class 7th Autumn Holidays Homework

Maths

Q1. Prepare your MDP(Multi- Disciplinary Project) on the topic "Food and Nutrition".

- Q2. Complete your Learner's Diary.
- Q3. Write a project on development of number system
- Q4. Represent the following rational numbers on the number line: 1/6, 3/7, -4/7, -3/8.
- Q5. What is a rational number? Give examples
- Q6. List five rational numbers between: (i)–1 and 0 (ii)–2 and –1 (iii) 4/5 and 2/3 and (iv)–1/2
- Q7. Rewrite the following rational numbers in the simplest form: (i) -8/6 (ii) 25/45 (iii) -44/72 (iv) -8/72
- Q8. Write the following rational numbers in ascending order: (i) -3/5, 2/5 and 1/5 (ii) -3/7, -7/3 and 3/4

Q9. Satpal walks 2/3 km from a place P, towards east and then from there 15/7 km towards west. Where will he be now from P?

Q10. What is standard form of a rational number? Give five examples.

English

- 1. Make a poster on EAT HEALTHY STAY HEALTHY.
- 2. Write a dialogue between a burger and an apple telling their merits and demerits.

Hindi

- 🕨 एम..डी.पी परियोजना कायय र्पूम कीजजये ।
- 🕨 संज्ञा ,सर्यनाम ,वर्शेषर् ,क्रिया वर्शेषर् की परिभाषा भेद सहित याद किके हिंदी वर्षय की उत्तिपुजततका में लिखिए ।
- 🕨 प्रततहदन बसंत पाठ्य पुततक एरं बाि मिाभाित से दस -दस कहिन शब्दों
 - ेक अंग्र अपनी उत्ति पुजततका में लिखिए ।
- > दशििा पीं का सुंदि का चित्र बनाइए ।
- 🕨 दो हदन`क अर्काश`क लिए प्रािायय जी पत्र लिखिए ।
- \triangleright

(नोट -शिदकािीन अर्काश के सभी कायय आप सभी अपनी -अपनी हिंदी की उत्तिपुजततका में िी

किंगे |)

Social Science

According to the instructions given to all the students

- 1. A project on the traditional food of different states under the subject Food and Nutrition under MDP. To prepare.
- 2. All students will write the terms of geography, history, civics in note copy.
- 3. Fill out all the world maps of the syllabus and put them in your notebook.

Science

- 1. Multi-disciplinary project: Topic: Food and Nutrition
 - A. Enlist 10 practices to maintain hygienic environment.
 - B. Make a healthy food pyramid consisting of nutrients.

C. Draw a poster or model on human digestive system. Or Working model for science exhibition. Prepare learner's diary.

Sanskrit



Art

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- 2. Draw a beautiful landscape on A4 size sheet and paint it using water colours.
- 3. Diya decoration with color or mirror and dori.(any one)

Class 8th Autumn Holidays Homework

Maths

1. Prepare your MDP(Multi- Disciplinary Project)on the topic "Pollution". Q2. Complete your Learner's Diary. Q3. Subtract $5x^2 - 4y^2 + 6y - 3$ from $7x^2 - 4xy + 8y^2 + 5x - 3y$.

Q4. Add: 7xy + 5yz - 3zx, 4yz + 9zx - 4y , -3xz + 5x .

Q5. Obtain the product of (i) xy, yz, zx

(ii) 2p, 4q, 8r (iii) a, – a², a³ (iv) a, 2b, 3c, 6abc (v) m, – mn, mnp

Q6. Simplify the expressions and evaluate them as directed: (i) x(x - 3) + 2 for x = 1,

(ii) 3y(2y-7) - 3(y-4) for y = 2

Q7. Multiply (i) (x - 4) and (2x + 3)

(ii) (x - y) and (3x + 5y)

Q8. Simplify (a + b) (2a - 3b + c) - (2a + 3b) c.

Q9. What is quadrilateral. Discuss various types of quadrilaterals and their properties by drawing figures.

Q10. Multiply (i) (a + 7) and (b - 5)

(ii) $(a^2 + 2b^2)$ and (5a - 3b)

Science

- Dear students in your Autumn break revise all chapters and complete all your written work.
- Solve these questions in your science notebook.

Fill in the blanks

- 1. Fertilization in human beings is takes place in the _____
- 2. The human embryo grows and develops in the _____
- 3. In a mosquito, the egg hatch to produce _____
- 4. Hydra reproduces by the process of _____
- 5. As a result of fertilization ______ is formed.
- 6. Organisms in which male and female gametes are present in the same organism are called _____
- 7. The tube that carries the sperm to the urethra is called _
- 8. The mode of reproduction which involves only one parent is _____
- 9. e process of cell changing their size, shape and form specialized cells is called _____
- 10. Human are _____ While birds are ____
- 11. Sex cells are also called ______. In animals the male sex cell is called _____ And the female sex cell is called an
- 12. _____ is the male sex hormone , _____ and _____ is the female sex hormone.
- 13. The ______is connected to the foetus by the umbilical cord.
- 14. Foetus is protected by the _____ and _____
- 15. Fallopian tube be is also called ______

Multiple Choice Questions

Question 1

In human beings, after fertilisation, the structure which gets embedded in the wall of uterus is (a) ovum

(b) embryo

- (c) foetus
- (d) zygote

Question 2

Reproduction by budding takes place in

- (a) hydra
- (b) amoeba
- (c) paramecium
- (d) bacteria

Question 3

Viviparous organisms are the ones which

- (a) Produce eggs
- (b) Produce young ones
- (c) Both a and b
- (d) None of these

Question 4

A sperm consists of (a) Head and Tail

- (b) Head ,middle, Tail
- (c) Head
- (d) None of these

Question 5

The cell formed after fertisation is called (a) Foetus

- (b) Embryo
- (c) Zygote
- (d) None of these

Question 6

Which of the following sequences is in the correct order?

- (a) Zygote -> Embryo -> Foetus -> Baby
- (b) Zygote -> Embryo -> Baby -> Foetus
- (c) Embryo -> Zygote -> Baby -> Foetus
- (d) Foetus -> Zygote -> Embryo -> Baby

Question 7

Which of the following is/are types of asexual reproduction?(a) Budding(b) Binary fission(c) Spore formation(d)) All the above

Question 8

In humans, the development of fertilised egg takes place in the

- (a) ovary
- (b) testis
- (c) uterus
- (d) oviduct

Question 9

The animals which lay eggs are called as

- (a) Oviparous animals
- (b) Viviparous animals
- (c) Domestic animals
- (d) Wild animals

Question 10

Which of these are the male reproductive organs in humans?

- (a) sperms
- (b) testes
- (c) ova
- (d) ovaries

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Question 10

Which of these are the male reproductive organs in humans?

- (a) sperms
- (b) testes
- (c) ova
- (d) ovaries
- 2. Draw all the diagrams of L-6 Reproduction in animals
- 3. Prepare a simple working model for Science Exhibition.

Social Science

- 1) Prepare the MDP file on the following:-
 - I. Write five difference on public and private hospitals
 - II. Write any five proverbs on health is wealth.
 - III. Locate any five major hospitals on the map of Delhi.
- IV Write any five measures of water conservation.
- 2) Do the questions and answers of the lesson "Civilising the Native Educating the nation"
- 3. Read the Newspaper and note down the important news.
- 4. Read the autobiography / biography of women who relentlessly worked for the upliftment of thesociety and rights of women.

ENJOY your Holidays.

Hindi

- 1. हमें प्रतिदिन व्यायाम क्यों करना चाहिए इससे होने वाले लाभों के बारे में 10 पंक्तियाँ लिखिए ।
- 2. व्यायाम संबंधी चित्र तैयार कर उनके नाम लिखो
- 3. अपनी हिन्दी की पाठ्य पुस्तक से द्वद्व और द्विगु समास के 10-10 उदाहरण लिखो
- 4. अपने आस-पास फैली गंदगी की सफाई के लिए नगर निगम अध्यक्ष को पत्र लिखिए ।

English



Sanskrit

संस्कृत में स्व परिचय लिखें।
 अस् धातु रूप पाँचों लकारों में लिखें।
 कृत्वा, तुमुन, अनीयर प्रत्यय के 5-5 उदाहरण संस्कृत पुस्तिका पाठ 9,10 से छाँटकर लिखें।
 दैनिक व्यायामस्य पञ्च वाक्यानि रचयत

5. व्यायामस्य महत्व विषये पञ्च वाक्यानि रचयत (प्रश्न 4 और 5 MDP)

Art

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3 Diya decoration with color or mirror and dori.(any one)

Class 9th Autumn Holidays Homework

Social Science

Map skill -. Locate and label the following on an outline map of India.

- i. Tropical evergreen forest.
- ii. Tropical deciduous forest.
- iii. Thorny forest and shrubs.
- iv. Mountain forests
- iv. Mangrove forests
- Note. Show each on separate map.
- 2. Paste pictures and write short note on following :-
- (a). Leopard. (b). Golden langur (c) Roofed turtle. (d) Boar. € Indian Bison.
- 3. Write about different steps of election.

English

1. Dialogue writing between mother and daughter telling about uses and misuses of technology (internet/ excessive use of mobile phones).

2. Write five poetic devices with three examples each from your textbook.

3. Write your experience how did you spend your autumn break holidays in the form of 'Diary entry'

Hindi

प्रश्न 1. निम्नलिखित संकेत बिंदुओं के आधार पर 100 शब्दों में शीर्षक सहित एक लघु कथा लिखिए-

एक बूढ़ा किसान था। उसके चारों पुत्र आपस में झगड़ा करते थे। किसान बहुत दुखीँ था। उसने एक दिन अपने चारों पुत्रों को बुलाया, दुखी मन से कहा, " आपस में झगड़ा करना नहीं करना चाहिए और तुम लोगों को मिल जुल कर रहना चाहिए।" पिताजी की बातें सुनकर चारों पुत्र वहाँ से चले गएँ। पर लड़ाई-झगड़े का सिलसिला जारी रहा, फिर एक दिन उस बूढ़े किसान ने एक उपाय सोचा.....

प्रश्न 2. निम्नलिखित विषयों पर 250 शब्दों का अनुच्छेद लिखिए।

1. नई शिक्षा नीति 2020

संकेत बिंदु - नई शिक्षा नीति 2020 का परिचय,भाषाई विविधता को बढ़ावा और संरक्षण,पाठ्यक्रम और मूल्यांकन, निष्कर्ष

2. जी-20 संकेन विंत, प्रस्तानम cap की रुणप्रमा cap का संपत्र कि प्रीनाम av

संकेत बिंदु - प्रस्तावना,G20 की स्थापना, G20 का सांगठनिक परिचय, 2023 के G20 शिखर सम्मेलन की महत्ता, उपसंहार

प्रश्न 3. अर्थ के आधार पर वाक्य के आठों (8) भेदों को लिखकर उनके दो-दो उदाहरण लिखें।

प्रश्न 4. अलंकार के सभी भेदों के दो - दो उदाहरण लिखकर कंठस्थ कीजिए।

प्रश्न 5. आप किसी एक कविता/ कहानी की रचना स्वयं से करें।

SCIENCE

- 1. Solve PT2 paper in notebook.
- 2. Prepare notes for Lesson-12, Improvement of food resources.
- 3. 3. Write the experiments in practical file.
- 4. Revise notes of all chapters.
- 5. Make working model for Science exhibition. (Voluntary)

BIOLOGY

- 1. Write two biology experiments in practical file.
- 2. Revise Chapter 5 and 6 for test.
- Make a poster/model on any one topic: Plant cell, animal cell, cell division, neuron or any topic of choice. OR Make a working model for science exhibition.
- 4. Complete your notebook if work is pending.

MATHS

- 1. COMPLETE YOUR LAB ACTIVITY FILE.
- 2. DO A PORTFOLIO ASSIGNMENT GIVEN IN CLASS.

ARTIFICIAL INTELLIGENCE

NOTE: - Revise all the lessons and complete the work given below.

- 1. 1. What is Artificial intelligence and all 3 domains
- 2. Supervised Learning and unsupervised learning
- 3. 3. Neural networks and Deep learning
- 4. Learning based approach and rule-based approach
- 5. Reinforcement Learning
- 6. Al project Cycle
- 7. 4W Problem Canvas

- 8. Explain Google Assistant and Amazon Alexa
- 9. Define Self Management Self Awareness Self confident Self Motivation Problem Solving
- 10. 10. 7'C of effective communication

Art

1. Draw a still life on A4 size sheet by arranging a composition using two or more objects which are easily available at your home.

2. Draw a folk art painting of your choice on A4 size sheet. Example - Warli art.

3. Diya decoration with mirror and dori.(any one).

Class 10th Autumn Holidays Homework

SCIENCE

- 1. Solve PT2 paper in notebook.
- 2. Solve at least 2 sample papers.
- 3. Write the experiments in practical file.
- 4. Revise notes of all chapters.
- 5. Make working model for Science exhibition.

(Voluntary)

Hindi

पोर्टफोलियो कार्य पूर्ण कीजिये ।

English

- 1. Write about your favourite poet and his poem other than your textbook.
- 2. Write five poetic devices with three examples each from your textbook.
- 3. You are Radha/ Raghu C-15 Mayur Vihar, Delhi. Write a letter to the editor of a newspaper on the consequences of climatic changes due to various man made reasons. Take hints : deforestation, pollution, encroachments, unplanned urbanisation and industrialisation.

Maths

1. Consider the numbers 4ⁿ, where n is a natural number. Check whether there is any value of n for which 4ⁿ ends with the digit zero.

[3]

- Find the LCM and HCF of 6 and 20 by the prime factorization method.
 [2]
- 3. Find the HCF and LCM of 6, 72 and 120, using the prime factorization method. [2]
- 4. Given that HCF (306, 657) = 9, find LCM (306, 657).
- [2]
 5. Check whether 6ⁿ can end with the digit 0 for any natural number n.
 [3]
- 6. Explain why $7 \times 11 \times 13 + 13$ is composite number.
- [2] 7. Prove that V5 is irrational.
 - [3]
- 8. Prove that $3 2\sqrt{5}$ is irrational.
 - [2]

[3]

POLYNOMIALS

- 1. Find the zeroes of the quadratic polynomial $x^2 + 7x + 10$, and verify the relationship between the zeroes and the coefficients.
- 2. Find the zeroes of the polynomial $x^2 3$ and verify the relationship between the zeroes and the coefficients. [2]

3. Find a quadratic polynomial, the sum and product of whose zeroes are –3 and 2, respectively.

4. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.

$$i X^2 - 2x - 8$$
 (ii) $4s^2 - 4s + 1$ (iii) $6x^2 - 3 - 7x$

5. Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively. i.0, 5 (il) 1, -1 (IIi) -4, 1

[2+2+2]

PAIR OF LINEAR EQUATION IN TWO VARIABLES

1. Check whether the pair of equations

12 х + 3y = 6 and 2x is consistent. _ 3y = lf solve them graphically. SO,

[3]

2. Half the perimeter of a rectangular garden, whose length is 4 m more than its width, is 36 m. Find the dimensions of the garden.

[3]

3. Draw the graphs of the equations x - y + 1 = 0 and 3x + 2y - 12 = 0. Determine the coordinates of the vertices of the triangle formed by these lines and the x-axis, and shade the triangular region.

[3]

[2]

4. Solve the following pair of equations by substitution method:

7x - 15y = 2 and x + 2y = 3

5. Solve 2x + 3y = 11 and 2x - 4y = -24 and hence find the value of 'm' for which y = mx + 3. [2]

6. Five years hence, the age of Jacob will be three times that of his son. Five years ago, Jacob's age was seven times that of his son. What are their present ages?

7. Use elimination method to find solutions of the following pair of linear equations :

2x + 3y = 8 and 4x - 6y = 7

[2]

[3]

8. A lending library has a fixed charge for the first three days and an additional charge for each day thereafter. Saritha paid Rs 27 for a book kept for seven days, while Susy paid Rs 21 for the book she kept for five days. Find the fixed charge and the charge for each extra day. [4]

9. (i) For which values of a and b does the following pair of linear equations have an infinite number of solutions?
 2x + 3y = 7

```
(a - b) x + (a + b) y = 3a + b - 2
```

(ii) For which value of k will the following pair of linear equations have no solution?

$$3x + y = 1$$

(2k - 1) x + (k - 1) y = 2k + 1

[4+3]

10. Solve the following pair of equations by reducing them to a pair of linear equations :

6x + 3y = 6xy and 2x + 4y = 5xy

[2]

QUADRATIC EQUATIONS

 The area of a rectangular plot is 528 m². The length of the plot (in metres) is one more than twice its breadth. We need to find the length and breadth of the plot.

2.

The product of two consecutive positive integers is 306. We need to find the integers.

[3]

3. Rohan's mother is 26 years older than him. The product of their ages (in years) 3 years from now will be 360. We would like to find Rohan's present age.

[3]

- 4. Find the roots of the quadratic equation $6x^2 x 2 = 0$.
 - [2]

- 5. Find two numbers whose sum is 27 and product is 182. [2]
- Find two consecutive positive integers, sum of whose squares is 365.
 [2
- 7. Find the roots of the following quadratic equations, if they exist, using the quadratic formula:

(i) $3x^2 - 5x + 2 = 0$ (ii) $x^2 + 4x + 5 = 0$ (iii) $2x^2 - 2\sqrt{2}x + 1 = 0$ [2+2+2]

8. Find the values of k for each of the following quadratic equations, so that they have two equal roots. (i) $2x^2 + kx + 3 = 0$ (ii) kx (x - 2) + 6 = 0

[2+2]

9. Sum of the areas of two squares is 468 m2. If the difference of their perimeters is 24 m, find the sides of the two squares. [3]

ARITHMETIC PROGRESSION

[2]

[3]

[3]

- 1. Find the 10th term of the AP : 2, 7, 12, ... [2]
- 2. Which term of the AP : 21, 18, 15, ... is 81? Also, is any term 0? Give reason for your answer.
- 3. Determine the AP whose 3rd term is 5 and the 7th term is 9. [2]
- 4. Check whether 150 is a term of the AP : 11, 8, 5, 2 . . . [2]
- 5. The 17th term of an AP exceeds its 10th term by 7. Find the common difference. [2]
- 6. Which term of the AP : 3, 15, 27, 39, . . . will be 132 more than its 54th term? [3]
- 7. How many three-digit numbers are divisible by 7? [3]
- 8. How many multiples of 4 lie between 10 and 250?
- 9. Find the sum of first 22 terms of an AP in which d = 7 and 22nd term is 149. [2]
- 10. Find the sum of first 51 terms of an AP whose second and third terms are 14 and 18 respectively.
- 11. Find the sum of the first 40 positive integers divisible by 6. [2]
- 12. Find the sum of the first 15 multiples of 8. [2]
- 13. Find the sum of the odd numbers between 0 and 50. [2]

TRIANGLES

Q.1: In the given figure, DE || BC. Find EC. (1)

Q.2: Let \triangle ABC ~ \triangle DEF and their areas be, respectively, 64 cm² and 121 cm². If EF = 15.4 cm, find BC. (1)

Q.3: ABC is an isosceles triangle right angled at C. Prove that $AB^2 = 2AC^2$. (2)

Q.8: State and prove Basic Proportionality Theorem. (4)

COORDINATE GEOMETRY

Q.1:	Find	the	distance	between	the	given	pairs	of	points (a,	b),
(—	a,	-	b)							
(1)										

Q.4: Find the coordinates of a point A, where AB is the diameter of a circle whose centre is (2, -3) and B is (1, 4). (2)

Q.5: Find the coordinates of the point which divides the join of (-1, 7) and (4, -3) in the ratio 2 : 3. (2)

Q.6: Find the point on the x-axis which is equidistant from (2, -5) and (-2, 9). (3)

Q.8: Find a relation between x and y such that the point (x, y) is equidistant from the point (3, 6) and (-3, 4). (3)

Q.9: Show that the points (1, 7), (4, 2), (-1, -1) and (-4, 4) are the vertices of a square. (3)

Q.10: Find the ratio in which the line segment joining A(1, -5) and B(-4, 5) is divided by the x-axis. Also find the coordinates of the point of division. (4)

INTRODUCTION TO TRIGONOMETRY

Q.1: In \triangle ABC, right-angled at B, AB = 24 cm, BC = 7 cm. Find: sin A, cosA. (2) Q.2: If sin A = 3 / 4 calculate tan A. (2) Q.3: Evaluate 2 tan² 45° + cos² 30° - sin² 60° (2) Q.4: Show that cos 38° cos 52° – sin 38° sin 52° = 0

Q.5:Express cot 85° + cos 75° in terms of trigonometric ratios of angles between 0° and 45°. (2) Q.6: If sin $(A - B) = 1/2 \cos (A + B) = 1/2$ where 0° < A + B ≤ 90°, A > B, find A and B.

(2)

(3)

Q.7: Prove that $(\sin A + \csc A)^2 + (\cos A + \sec A)^2 = 7 + \tan^2 A + \cot^2 A$ (3)

Q.8: Prove that sec A $(1 - \sin A)(\sec A + \tan A) = 1.$ (3)

Q.10: Prove that $(\csc \theta - \cot \theta)^2 = 1 - \cos \theta / 1 + \cos \theta$ (3) SOME APPLICATIONS OF TRIGONOMETRY

Q.1: A tower stands vertically on the ground. From a point on the ground, which is 15 m away from the foot of the tower, the angle of elevation of the top of the tower is found to be 60°. Find the height of the tower.

(2)

Q.2: A circus artist is climbing a 20 m long rope, which is tightly stretched and tied from the top of a vertical pole to the ground. Find the height of the pole, if the angle made by the rope with the ground level is 30°.

(2)

Q.3: The shadow of a tower standing on a level ground is found to be 40 m longer when the Sun's altitude is 30° than when it is 60°. Find the height of the tower.

(3)

Q.4: From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower. (4)

Q.5: The angle of elevation of the top of a building from the foot of the tower is 30° and the angle of elevation of the top of the tower from the foot of the building is 60°. If the tower is 50 m high, find the height of the building. (4)

Q.6: From the top of a 7 m high building, the angle of elevation of the top of a cable tower is 60° and the angle of depression of its foot is 45°. Determine the height of the tower. (4)

Q.7: The angles of depression of two ships from the top of a lighthouse and on the same side of it are found to be 45° and 30°. If the ships are 200 m apart , find the

height of the lighthouse. (4)

CIRCLES

(1)

Q.1: How many tangents can a circle have?

Q.2: A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that OQ = 12 cm. Find PQ . (1)

Q.3: Prove that the tangent at any point of a circle is perpendicular to the radius

through the point of contact. (3)

Q.4: Prove that the lengths of tangents drawn from an external point to a circle are equal. (3)

Q.5: A quadrilateral ABCD is drawn to circumscribe a circle .Prove that AB + CD = AD

+ BC (3)

Q.6: In the given figure, XY and X'Y' are two parallel tangents to a circle with centre O and another tangent AB with point of contact C intersecting XY at A and X'Y' at B.

Prove that \angle AOB = 90°. (4)

Q.7: Prove that the angle between the two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line-segment joining the points of contact at the centre. (4)

Q.8: Prove that the parallelogram circumscribing a circle is a rhombus.

Social Science

1. Make a project on consumer awareness with the following topics:-

(I). Why consumer moments started in India

(ii). Origin of consumer movement in India.

(iii). COPRA (Consumer Protection Act) 1986.

(v). Right to safety.

(vi). Right to information.

((vii) organisation that monitors and issues quality certificate to procedures of various goods.

2. Revise following chapters:-

(a). Political parties.

(b). Print culture and the modern world.

Map skills

Locate the following on outline map of India.

I. 1920 Nagpur session

II. 1920 Calcutta session III. 1927 Madras session IV. Kheda

V. Champaran.

ARTIFICIAL INTELLGENCE

Que1. How does the face lock system work in a smartphone?

Ans. 1. The face lock system in a smartphone detects and captures the image.

2. It saves the features of the face at the beginning or the first time when the lock is

applied.

3. After that whenever the features matched it will unlock the smartphone.

Que 2. What do you mean by Intelligence?

Ans. Intelligence refers to the ability to think, perceive information and apply knowledge within

the behavioral environment. Intelligence can be defined as :

- Ability to interact with the real-world To perceive, understand and act
- Reasoning and Planning Modelling the external world, given input
- Learning and Adaption Continuous learning and adapting graph.

Que 3. Explain the training data and testing data with an example.

Ans. Testing Data: The existing data or previous data collected through various activities or

sources is known as training data and prediction data is known as testing data.

For example, If someone wants to predict the salary of an employee based on previously drawn

salaries into the machine, the previous salary is training data and prediction salary data is

known as testing data.

Training Data: training data is a subset of our actual dataset that is fed into the machine learning model to uncover and learn patterns. It trains our model in this way.

Typically, training data is bigger than testing data. This is due to the fact that we want to give the model as much data as possible in order to uncover and learn important patterns. When we feed data from our datasets to a machine learning algorithm, it learns patterns and makes choices.

Que 4. Explain rule-based approach in detail.

Ans.

• A Rule-based approach is generally based on the data and rules fed to the

machine, where the machine reacts accordingly to deliver the desired output.

- It follows the relationship or patterns in data defined by the developer.
- The machine follows the instructions or rules mentioned by the developer and

performs the tasks accordingly

• It uses coding to make a successful model.

Que 5. Explain learning-based approach in detail.

Ans.

• The machine is fed with data and the desired output to which the machine designs its own algorithm (or set of rules) to match the data to the desired output fed into the machine to train.

• In the learning-based approach, the relationship or pattern in data is not defined by the developer.

• This approach takes random data which is fed into the machine and it is left to the machine to figure out the patterns or required trends.

• In general this approach is useful when the data is not labelled and random for a human to use them

• Thus, the machine looks at the data, tries to extract similar features out of it and clusters the same datasets together.

• In the end as output, the machine tells us about the trends which are observed in

the training data

• This approach is used to train the data which is unpredictable or the users have no idea about it.

Que 6. What do you mean by deep learning?

Ans. Deep learning is a subset of Artificial Intelligence which works on a huge amount of data and trains the model according to the data received. It is the most advanced branch of Artificial Artificial intelligence.

Que 7. What do you mean by data science? Illustrate your answer with an example? Ans. 1. Data science is one of the domains of AI. It processes the data for the AI systems. It collects the data input, maintains them into accurate datasets, and prepares the output in the proper and appropriate format. The final output or information extracted through data science can be used to make a decision.

For example, price comparison websites like PriceGrabber, PriceRunner, Junglee, Shopzilla, and DealTime are totally driven by data, compares the price of a product from different vendors and then the user can make a suitable decision.

Que 8. Mention the ways to collect data.

Ans. The following ways are very common to collect data:

i. Surveys

ii. Web Scrapping

iii. Sensors

iv. Cameras

v. Observations

vi. API

vii. Call or SMS or Email

viii. Feedback

Que 9. what do you mean by chatbots?

Ans. . A chatbot is a software application used to conduct an on-line chat conversation via text

or text-to-speech, in lieu of providing direct contact with a live human agent.

Que 10. What do you mean by decision tree?

Ans.

- A decision tree is a very useful for modelling in business.
- It follows a tree like structure of decisions with all possible outputs
- The top most node of decision tree is known as root node.
- Every node is connected with lines.
- It follows top-bottom approach.
- The root node is always on top and the terminal node is at the bottom.

NOTE

- DO Above Work in AI Notebook
- Learn All the Chapters

Art

1. Draw a still life on A4 size sheet by arranging a composition using two or more objects which are easily available at your home.

2. Draw a folk art painting of your choice on A4 size sheet. Example - Warli art.

3. Diya decoration with mirror and dori.(any one).

Class 11th Autumn Holidays Homework

ACCOU	NTANCY
1	Dhawan is running a construction business and has got a contract in which he has received an order of constructing a shopping mall. He wants to show it as his asset in the Balance Sheet. Is he correct in doing so?
2	Gaurav Chopra started a business on 1st April, 2016 by investing Rs.75,000 and took a loan from bank of Rs.75,000. On 1st Oct., 2016, he introduced additional capital of Rs.75,000 and had withdrawn Rs.45,000 during the year for domestic purposes. On 31st March, 2017, his assets were Rs. 3,75,000. Find out her capital on 31st March, 2017 and profit earned during the year.
3	Define accounting.
4	A company shows its assets at undervalued cost in its Balance Sheet. Which principle is ignored by the company?
5	Under which principle, quality of staff management is not recorded in the books of accounts?

6	Show the accounting equation on the basis of following transactions and prepare a Balance Sheet on	
	the basis of last equation:	
	(Rs.)	[]
	1. Opening Balance: Cash Rs.20,000; Bank Rs.5,000; Creditors Rs.5,000; Capital	[]
	Rs.50,000; Stock Rs.20,000; Debtors Rs.10,000.	1
	2. Purchased goods for cash Rs.7,500 and on credit for Rs.5,000	[]
	3. Goods costing Rs.10,000 sold at 20% profit, half of the amount received in cash	
	4. Bad debts 1,000	l
	5. Cash stolen away 3,500	
	6. Amount received by cheque from debtors 5,000	
	7. Paid to creditors by cheque 5,000	l
	8. Goods sold on credit (Cost price Rs.4,000) 5,000	
	9. Goods withdrawn for personal use 1,000	
	10. Interest allowed on capital 2,500	l
	11. Received commission 2,500	
7	Using following balances and transactions show accounting equation: Cash Rs.6,000, Bank	

Balance Rs.1,500, Debtors Rs.3,000, Goods Rs.4,500, Furniture Rs.3,000, Creditors Rs.5,250	and		
Capital Rs.12,750.			
(Rs.)			
(i) Purchased goods for cash 1,500			
(ii) Purchased goods from Ram Saran 1,500			
(iii) Returned goods to Ram Saran 300			
(iv) Bad Debts 750			
(v) Goods lost by fire 750			
(vi) Amount received by cheque from debtors 1,500			
$\left(vii ight)$ Goods costing Rs.3,000 sold at 20% profit, half the amount received in cash			
$\left(viii ight)$ Purchased goods for cash Rs.2,250 and on credit for Rs.1,500			
(ix) Paid to creditors by cheque Rs.1,500			
(x) Interest allowed on capital Rs.750			
Gautam started a business relating to software solutions on 1st April, 2017 with a capital of			
Rs.1,50,000. On 31st March, 2018 his assets worth Rs.3,60,000 and liabilities Rs.1,20,000. Find			
out his closing capital and profit earned during the year.			
Why are rules of Debit and Credit same for Liabilities and Capital?			
Profit earned increases proprietors'/owners' capital. Is it true?			
Mr. Gupta made a drawing of ™25,000 and used this amount to pay hospital bills of his			
poor cousin. Where are drawings recorded in capital account?			
Prepare the Credit Vouchers from the source vouchers of M/s Arijit Singh & Sons on the bas following transactions:	is of		
2020 Particulars	(₹)		
May 6 Sold goods for ™1,900 vide Cash Memo No. 86 plus CGST and SGST @6% each			
May 28 Withdrawn cash from Bank for office use vide Cheque No. 936	4,000		
May 29 Cash received from Karan (Debtor) vide Cash Receipt No. 957	8,000		
	1		
	Balance Rs.1,500, Debtors Rs.3,000, Goods Rs.4,500, Furniture Rs.3,000, Creditors Rs.5,250 Capital Rs.12,750. (Rs.) (i) Purchased goods for cash 1,500 (iii) Purchased goods for cash 1,500 (iii) Purchased goods for cash 3,500 (iii) Purchased goods to Ram Saran 1,500 (iii) Purchased goods to Ram Saran 300 (iv) Bad Debts 750 (v) Goods lost by fire 750 (vi) Amount received by cheque from debtors 1,500 (vii) Goods costing Rs.3,000 sold at 20% profit, half the amount received in cash (viii) Purchased goods for cash Rs.2,250 and on credit for Rs.1,500 (ix) Paid to creditors by cheque Rs.1,500 (x) Interest allowed on capital Rs.750 Gautam started a business relating to software solutions on 1st April, 2017 with a capital of Rs.1,50,000. On 31st March, 2018 his assets worth Rs.3,60,000 and liabilities Rs.1,20,000. Find out his closing capital and profit earned during the year. Why are rules of Debit and Credit same for Liabilities and Capital? Profit earned increases proprietors'/owners' capital. Is it true? Mr. Gupta made a drawing of **25,000 and used this amount to pay hospital bills of his poor cousin. Where are drawings recorded in capital account? Prepare the Credit Vouchers from the source vouchers of M/s Arijit Singh & Sons on the bas following transactions: 2020 Par		

13	After the implementation of GST, consumers of goods and services need not to pay many					
	taxes. Name such	taxes. Name such taxes				
14	A wholesaler of refrigerators in Nagpur supplies refrigerators to the city of Pune. In his					
	invoice, he charge	s IGST from the retailer. Is he correct?				
15	Define Goods and	Services Tax (GST).				
16						
10	Q. 1. Enter	the following transactions in the Journal of Mudit:	(TM			
	2020 Ian 1	Common and busin assaulth angle	1 75 000			
	Jan. I	building	1,75,000			
	Ion 9	Coode numericated for each ₹75,000 nbue CCST and SCST @600 each	1,00,000			
	Jan. 2	Sold reads to Deben ₹20,000 plus CCST and SCST @6% each				
	Jan. 5	Boid words	500			
	Jan. 4	Faid wages	500			
	Jan. 6	Sold goods for cash < 10,000 plus CGS1 and SGS1 @6% each				
	Jan. IC	Caluar in 16 Dala	80.000			
	Jan. 12	Cash received from Rohan	30,000			
		Discount allowed	3,600			
	Jan. 14	Goods purchased from Sudhir < 27,000 plus CGS1 and SGS1 @6% each	1 000			
	Jan. 18	Cartage paid	1,000			
	Jan. 20	Drew cash for personal use	5,000			
	Jan. 22	Goods used for household ₹2,000. These goods were purchased on				
		paying CGS1 and SGS1 @b% each	00.000			
	Jan. 25	Cash paid to Sudhir	29,000			
		Discount allowed by him	1,240			
17	Journalise the foll	owing transactions in the books of Harpreet Bros.:				
	(i) Rs.1,000 due fr	om Rohit are now bad debts.				
	(ii) Charge depred	ciation @ 10% p.a. for two months on machine costing Rs.30,000.				
	(iii) Provide inter	est on capital of Rs.1,50,000 at 6% p.a. for 9 months.				
	(iv) Rahul became	e insolvent, who owed Rs.2,000, a final dividend of 60 paise in a rupee is				
	received from his	estate.				
18	Manisha started a	new business, Pass the journal entries for the following transactions: 2020	(Rs)			
	May 1 Started bus	iness with cash 85,000				
	May 2 Coode pure	based for each 0,000				
	iviay 5 Goods purc	1103CU 101 Casil 3,000				

	May 3 Sold goods for cash 12,000	
	May 4 Goods bought from Akansha 13,000 May 6	
	Office rent paid to the landlord 4,000 May 10 Paid	
	salary to Bablu (Office Boy) 3,000	
	May 12 Machinery purchased from Priya Engineerings 25,000 May	
	15 Paid to Akansha on account 6,000	
	May 19 Sold goods 4,000	
	May 23 Stationery purchased 1,500	
	May 24 Drawings made 6,000 May	
	26 Goods lost by fire 3,000	
	May 28 Opened a bank account in PNB 12,000	
	May 30 Borrowed from Muthoot Corp. 10,000	
19	Prepare Cash Book with Bank Column of Bharti from the following transactions: 2023	
	(Rs)	
	Dec. 1 Cash in Hand 2,20,000	
	Cash at Bank 60,000	
	Dec. 3 Deposited in Bank SU,UUU	
	Dec. 7 Cash Purchases Rs.16,000 plus CGST and SGST @6% each Dec. 8 Paid	
	Commission by cheque Rs.12,000	
	Dec. 9 Withdrew from bank for private use Rs. 2,500	
	Dec. 12 Received from Ved in full settlement of his account Rs. 6,000, half of the amount was	
	deposited into bank on the same day	
	Dec. 16 Interest collected by Bank Ks.14,000	
	Dec. 20 Cash Sales Ks. 42,000 plus CGST and SGST @b% each	
	Dec. 22 Salaries paid 40,000	
	Beceived cheque from Sona & Co. after discount of Rs. 4 620 Rs. 35,700 Dec. 26	
	Deposited the cheque received from Sona & Co. into Bank	
20	Prenare Double-column cash book from the following transactions for the month of December, 2022:	
20	2017 (Rs.)	
	Dec. 1 Cash in hand Rs.17,500	
	Cash at bank Rs.5,000	
	Dec. 3 Purchased goods for cash Rs.3,000 plus CGST and SGST @6% each Dec. 5	
	Received cheque from Jasmeet Rs.10,000	
	Dec. 8 Sold goods for cash Rs.7,000 plus IGST @12% Dec.	
	10 Jasmeet's cheque deposited into bank	
	Dec. 12 Purchased goods for 20,000 and paid by cheque plus IGST @5% Dec.	
	15 Paid electricity expenses through bank 1,000	
	Dec. 18 Cash sales to Mananta Enterprise Rs. 7,000 plus CGST and SGST @6% each Dec. 20	
	Deposited into balls 10,000	
	Dec. 29 Paid rent Rs.2.000.	
	Dec. 30 Withdrew cash for personal use Rs.1,200	
	·	

	Dec. 31 Paid salary Rs.6,000	
21	Enter the following transactions of June 2018, in two column cash book: 2022	(Rs)
	June 1 Started business with cash	38,000
	June 1 Opened a bank account	28,300
	June 1 Cash purchases	5,500
	June 2 Paid rent by cheque	6,600
	June 1 Sold goods to Hardik	10,000
	June 3 Received a crossed cheque from Hardik for sales amounting to	5,000
	June 3 Sold goods for cash, amount received by cheque	20,000
	June 4 Purchased goods from Bunny paid by cheque which was received for sales	20,000
	June 15 Paid salaries by cheque	10,000
	June 15 Withdrew cash for personal use	2,100
	June 18 Withdrew cash from Bank for office use	2,600
	June 20 Sold goods to Luna amount received by cheque	15,000
	June 22 Endorsed the cheque received from Luna to Ruby for settlement of her accou	unt of
	Rs.18,000	
	June 26 Cash Sales	18,000
	June 28 Cash deposited into bank	8,900
	June 30 Purchased furniture	10,400
	June 30 Bank collected dividend	2,000
		() 2010
22	The following are the credit purchases of M/s Modi Book Depot, Delhi for the month	of June, 2018.
	Enter them into Purchases Book and post them into the ledger:	
	June 5 Bought from Monan Books, Deini:	
	100 Copies of Commerce' by Prof. Kamla @ Rs 125 each.	
	50 Copies of "Advanced Accounts" by Prof. Jain @ Rs.150 each. Less:	
	20% Trade discount.	
	June 10 Purchased one Laptop worth "25,000 from Aakash Brothers. June 15	
	Bought from Rajiv Publishers, Deini:	
	100 Copies of Commercial Law by Prot. Menra @ Rs.155 each. 100	
	Copies of Statistics by Prof. Knan @ Rs.155 each.	
	June 25 Bought from Chitra Book Depot, Kurukshetra:	
	25 Copies of Income Tax by Prof. Jain @ Rs.140 each.	
	25 Copies of Company Law by Prof. Menra @ Rs.135 each. June 30	
	Bought from Vikas Books Bhandar, Ambaia for cash: 60 Copies of	
	Accountancy by Jain & Gupta @ Rs.80 each.	
	60 Copies of 'Economics' by Khan & Jain @ Rs.80 each. Less:	
	20% Trade Discount.	
23	Journalise the following transactions of Star Kid Publications and post the entries into	the ledger: 2018
	(Rs)	
	Apr. 05 Started business with cash 4,00,000	
	Apr. 08 Opened a bank account with Syndicate Bank 1,60,000 Apr.	
	12 Goods purchased on credit from Raj Publishers 60,000 Apr. 12	
	Purchased office machines, paid by cheque 40,000 Apr. 18 Rent	
	paid by cheque 10,000	
	Apr. 20 Sales of goods on credit to M/s Shobhit & Sons 20,000 Apr.	
	22 Cash sales 30,000	
	Apr. 25 Cash paid to Raj Publishers 60,000	
	Apr. 28 Received a cheque from M/s Shobhit & Sons 20,000 Apr.	
	30 Salaries paid in cash 12,000	
24	From the following particulars, prepare Bank Reconciliation Statement as on 31 st Dec	ember, 2022:
	(i) Debit balance as per Cash Book Rs 10 000	
1		
	(ii) A cheque for Rs 500 issued in favour of Karan has not been presented for payment	nt.

	(iii) A bill for Rs.700 retired by bank on our behalf under a rebate of ™20, the full amount of the bill was credited in Cash Book	
	(iv) A cheque for Rs 295 deposited in bank has been dishonoured	
	(v) A sum of \mathbb{M} 800 deposited in the bank has been credited as Rs 80 in the Pass Book	
	(v) Payment side of Cash Book has been undercast by Rs 200	
	(vii) A hill receivable for Rs 1 000 (discounted with the bank in November 2018) disbonoured on 31st	
	December 2018 but the dishonour was not recorded in the Cash book	
25	On 31 st December, 2018 the cash book of Roban showed an overdraft of $M5$ 600. From the	-
25	following particulars, make out a Bank Reconciliation Statement:	
	(i) Cheques drawn but not cashed before 31st December 2018 amounted to Rs 3 946	
	(i) Cheques naid into the bank but not credited before 31st December 2018 amounted to	
	Rs 4 891	
	(iii) A Bill Receivable for 1520 previously discounted with the bank had been dishonoured and	
	bank charges debited in the Pass Book amounted to Rs 55.	
	(iv) Debit is made in the Pass Book for $\mathbb{M}120$ on account of interest on overdraft	
	(v) The bank has collected interest on investment and credited Rs 760 in the Pass Book.	
26	From the following particulars, ascertain the bank balance as per Cash Book as on 30 th April, 2022:	
	(i) Credit Balance as per Pass Book Rs 45.000.	
	(ii) Cheques amounted to Rs 7,500 were deposited into bank, but only cheques of Rs 5,700 were	
	cleared and credited by the bank upto 30th April, 2018.	
	(iii) Two cheques of Rs 2,700 and Rs 4,500 were issued, but only one cheque of Rs 2,700 was	
	presented for payment upto 30th April, 2018.	
	(iv) Rs 1,500 have been credited by bank for interest on securities.	
	(v) Rs 600 insurance premium paid by bank under standing order.	
	(vi) Bank Charges Rs 150.	
27	Prepare a Bank Reconciliation Statement from the following particulars as on 31st July, 2018 when Pass	
	Book shows a debit balance of R.7,500.	
	(i) Cheques issued but not presented for payment ™6,000.	
	(ii) Cheques issued and presented for payment but omitted to be recorded in Cash Book Rs	
	3,000.	
	(iii) Cheque deposited but not collected Rs 1,500.	
	(v) Interest on overdraft Rs 300.	
	(vi) A cheque of Rs 1,500 debited in the Cash Book but omitted to be banked.	
	(vii) A cheque of Rs 600 credited in the Pass Book but was not recorded in the Cash Book.	
	(viii) Bank charges Rs 150	

Chemistry

Go through chapter Equilibrium, do all the questions given in ncert in notebook.

BIOLOGY

1. Complete investigatory project and submit

on the day of reopening.

- 2. Solve half yearly paper of shift 1 and 2 3. Make model for science exhibition on the given topics.
- 4. Solve 2 CCT questions from each chapter of half yearly syllabus.
- 5. Prepare 10 MCQs from each chapter of half yearly syllabus.

Mathematics

- 1. Do any one of the **projects** given below
- a) Mathematics and Biology: Study of science of heredity
- b) Prepare a project based on FIBONACCI sequence, their properties and similar patterns found in nature.
- c) Mathematics and Chemistry: Study structure of Organic Compounds.
- d) Collection of statistical data and analysing it for standard deviation and mean deviation.
- 2. Do any of the following activities

ECONOMICS

1. Distinguish between movement along the supply curve and shift in supply curve with help of suitable figures.

2. Explain the effect of change in technology on the supply of a good.

3. What do you mean by the term supply? Discuss the law of supply with the help of table and diagram.

4. Distinguish between extension of supply and in increase in supply with the help of diagram.

5. Define price elasticity of supply. Briefly explain the percentage method of measuring it.

6. Define elasticity of supply. On the basis of value of coefficient of elasticity of supply, how many type of situation can you imagine? Represent those situations diagrammatically.

7. The market price of good changes from 5rs to 20rs. As a result the quantity supplied by a firm's increases by 15 units. The price elasticity of the firm supply curve is 0.5 find the initial and final output levels of the firm.

8. The market price of 10rs a firm a firm supplies 4 units of output the market price increase to 30rs. The price elasticity of the firms supply is 1.25. What quantity will the firm supply at the new price?

9. Complete your project file (Topic given in syllabus)

10. Solve half yearly question paper

ENGLISH

SECTION-A READING

Read the passage given below.

1. Delhi tried very hard but it wasn't enough. In the run-up to D-Day, the sound of firecrackers had not been heard. The Supreme Court ban on sales had made procuring them difficult, but many people, including school children, had resolved to buck tradition for clean air. And till 7 pm on Diwali, most neighbourhoods were quiet. Around that time the first sound of firecrackers going off was heard, and gradually it rose to a crescendo. But it was nowhere near the blitzkrieg of the past, not even half of that. And well before midnight, it was all over.

2. The bad news broke at dawn. It was a visibly smoggy morning. Air pollution levels had peaked to "severe" on Diwali night and remained dangerously high till Friday afternoon as reflected in the real-time monitoring data of Central Pollution Control Board (CPCB) and Delhi Pollution Control Committee (DPCC). 3. The CPCB, however, pointed out a silver lining. It said the air quality index (AQI) this year was better than the ones on Diwali in the past two years in spite of hostile meteorological conditions. On Diwali last year (October 30, 2016), the average AQI for the city was in the "severe" category at 426 while the year before that (November 11, 2015), it had been in the "very

poor" category at 327. This time, it was marginally lower at 326.

4. There are so many factors impacting air quality – from the speed and direction of the wind to burning of crop stubble in neighbouring states – that it is difficult to definitively identify the main culprit. What, however, has to be acknowledged is that at least a majority of people have the will to stick to what may appear to be unpalatable decisions for better quality of life.

5. The data, however, is making informed observers worry-particularly the massive peaks in PM (Particulate Matter) 2.5 (fine, respirable pollution particles) and PM 10 (coarse pollution particles) levels on Thursday night after 10 pm. Delhi peaked to 656 micrograms per cubic metres around midnight.

6. However, the data also shows that in spite of unfavourable meteorological conditions, the air quality on Diwali this year was better than last year. It had not been so good in the two days preceding Diwali due to intrusion of humid air from the south-east coupled with prevailing calm wind conditions. The average mixing height (the height to which smoke or air will rise, mix and disperse) recorded on October 18 and 19 were 547 metres and 481 metres, respectively, according to CPCB. It should be at least 1000 metres for proper dispersal

1.1 On the basis of your reading of the passage, answer the following questions by choosing the best of the given choices.(1×6)

Question (A) In the run-up to D-Day, the sound of firecrackers had not been heard because the------

(i) Supreme Court banned the sales of firecrackers.

(ii) children resolved to back tradition for clean air.

(iii) neighbourhoods did not like the sound of firecrackers.

(iv) children were afraid of the sound of firecrackers.

Q--(B)The 'bad news' that broke at dawn was that---

(i) there was smog in the sky.

(ii) the air pollution levels were dangerously high.

(iii) CPCB released real time figures that were alarming.

(iv) All of the above.

Q-(C)The AQI levels after Diwali this year were--

(i) the same as in other years.

(ii) higher than other years.

(iii) lower than other years.

(iv) could not be ascertained.

Q--(D) There will be no air pollution if---

(i) school children do not burst crackers on Diwali.

(ii) there is a strong wind on Diwali night.

(iii) if the motor vehicles do not run on Diwali.

(iv) None of the above.

Q--(E)'Crescendo' in para 1 mean

(i) to happen successfully

(ii) an increase in intensity

(iii) better quality of life

(iv) metrological conditions

Q- (f) Unpalatable in para 4 means :

(i) 6,000 metres for proper dispersal

(ii) feeling happy

(iii) dispersal

(iv) not pleasant

1.2 Answer the following.(1×3Marks)

(a) The massive peaks in PM (Particulate Matter) 2.5 and PM 10 (coarse pollution particles) on the Diwali day made the observers worried. [True/False] Fill the blanks---. (b) In the run-up to

D-Day in Delhi the sound of firecrackers gradually rose to a

(c) Delhi peaked to 656 per cubic metres around midnight.

1.3 Find words from the passage which have a meaning similar to the following.(1×2marks)

(a) unfavourable (paragraph 3)

(b) influencing (paragraph 4)

QUESTION-2 Read the passage carefully and make notes. (8Marks)The effects of plastic bags onthe environment are really quite devastating because there is no disposal method that will really help eliminate the
problem. While reusing them is the first step, most people don't do it, because most of them are not durable enough
to survive multiple use.The biggest problem with them is that once they have been
soiled, they end up in the trash, which then ends up in the landfill or is burned. Either solution is very poor for the

environment. Burning emits toxic gases that harm the atmosphere while landfills hold them indefinitely as part of the plastic waste problem throughout the globe. One of the greatest problems is that an estimated 300 million plastic bags end up in the Atlantic Ocean alone. These bags are very dangerous for sea life, especially those of the mammal variety. Any hunting mammal can easily mistake the size, shape and texture of the plastic bag for a meal and find its airway cut off. Needless deaths from plastic bags are increasing every year. The

environmental balance of the waterways is being thrown off by the rate of plastic bags finding their way into the mouths and intestinal tracts of sea mammals. As one species begins to die off at an abnormal rate, every other living organism in the waterways is impacted. The indefinite period of time that it takes for

the average plastic bag to break down can be literally hundreds of years. Every bag that ends up in the woodlands of the country threatens the natural progression of wildlife. Because the breakdown rate is so slow, the chances that the bag will harmlessly go away are extremely slim. Throughout the world plastic bags are responsible for suffocation and deaths of woodland animals as well as inhibiting soil nutrients. The land litter that is made up of plastic bags has the potential to kill over and over again. It has been estimated that one hag has the

made up of plastic bags has the potential to kill over and over again. It has been estimated that one bag has the potential to unintentionally kill one animal per every three months due to unintentional digestion or inhalation.

While it's a noble thought to place the plastic bags in the recycling bin every week, studies have proven that there are very few recycling plants that actually recycle them. Most municipalities either burn them or send them off to the landfill after sorting. This is because it can be expensive to recycle this type of plastic. It doesn't melt down easily and is often not fit to be reused in its original form. The premise of recycling these bags is nice. Yet funding for the upgrading of the recycling units just has not happened and thus less than one per cent of all bags are sent to recycling plants worldwide. Most are left to become a pollution problem in one way or another. There are always alternatives to plastic bags and the search for more alternatives continues. Paper bags are a possible option but they also take their toll on the environment. The use of trees to increase the production of paper products will also have a negative environmental effect. Reusable plastic bags are being introduced into regions that want to outlaw the plastic bags altogether. These are stronger and more durable and can be used for three to five trips to the market. Of course, the reusable cloth bag is fast becoming a favourite among environment supporters. While, thus far, no bag is without its issues, these are the bags that are currently recommended for use to help protect environmental concerns. (2.1) On the basis of your reading of the given passage make notes on it using (headings and sub-headings) Use recognisable abbreviations wherever necessary. Supply an appropriate title to it. (5Marks) (2.2) Write a summary of the given passage in 80 words. (3Marks) Question-3 GRAMMAR (1×4=4 Marks) 3.1 CHOOSE THE CORRECT DETERMINERS/ TENSE:. (A)You are going to take life away from----man, with-----belief that you will give it back. a) a, the b) the, the c) a, a d) X, the B) Unfortunately, our local library had -----books on the subject, so I'm going to the city library tomorrow hoping to find ----more. a. much, a little b. few, some c. little, many d. a little, a lot C) I-----the bell six times but no one opened the door. a. have rung b. rang c. ring d. was ringing D) I-----working all aftrnoon and have just finished the assignment. a. have been b. had been c. am d.shall be. ______ (WRITING AND LITERATURE-20M) SECTION-B QUESTION-4 Writing (3+5=8Marks) 4.1 As the President of Leo Club of Temple Town, prepare a poster on behalf of Lions Club and Leo Club for 'Diwali Mela' to be held at Nehru Stadium, mentioning some of the attractions. (Word limit 50 Words) 3 Marks) 4.2 .Manish has to participate in debate supporting the motion that life in the country (a village) is preferable to life in the city. Below you can see his notes. Use the information to develop Manish's speech in 150-200 words. COUNTRY (A VILLAGE) peace and quiet—soothing air—fresh and pure green fields all around—lovely sight helpful neighbours CITY vehicles—smoke industries—smoke-pollution crowded streets people hurry—never relax(5 Marks) 4.3 You are Mukul / Mahima of Alps Public School. Your school has organized a debate on "Social Media and It's Effects"Â and you will be participating in your school. Prepare your views against or in favour of the motion. (120 – 150 words) (5marks) 4.4 You are Krishna/ Tisha, Secretary, Greenland Enterprises Ltd, Delhi-110006. Your Chairman has asked you to draft an advertisement for a local daily under the classified columns for the vacant posts of one accountant and two office assistants. Draft an advertisement. Question 5 READ THE GIVEN EXTRACT CAREFULLY: I'm the Poem of Earth, said the voice of the rain, Eternal I rise impalpable out of the land and the bottomless sea. Upward to Heaven, Whence vaguely form'd, altogether changed, and yet the same. 5.1 ANSWER THE QUESTIONS:. (1/2×4=2Marks). 1. Why does the rain tell the poet that she cannot be touched? A. because she is water B. because she rises in the form of water vapour C. because she is in the form of clouds

- D. None of the above
- 2. Which poetic device has been used in it;. "I am the Poem of Earth" Eternal, Impalpable?

A. personification

- B. alliteration
- C. metaphor
- D. None of the above
- 3. What happens to the earth when the rain falls back on the surface of earth?
- A. it provides water
- B. it beautifies and purifies the earth
- C. it helps in greenary
- D. it provides water to flora and fauna
- 4. How does the rain help the seeds inside the earth?
- A.provides life and helps them grow
- B. provides water
- C. provides life
- D. None of the above.
- Q-1 Why was the poet not able to recall his Childhood ?
- Q-2 What do you notice about the beginning and ending of the poem 'The Laburnum Top'?
- Q-3 Why did the narrator want to forget the address?
- Q-4 Why did the boys hide the horse ?
- Q-5 What advice does Mrs.Fitzgerald give to her neighbour Mrs.Pearson in the art of managing her family? Q-6 Give the Central idea of the poem 'Childhood' and 'Father to son'

5.2 Do the following Questions:

- Q-7 Summarise the following Chapters:
 - A. Silk Road B) The Tale of Melon city.

Q-8 Solve the Half Yearly Question Paper in English Notebook. (20 Marks will be given for this assignment) Prepare for Periodic Test-II

<mark>X-</mark>X-X-X-<mark>X</mark>

GEOGRAPHY

1. According to the instructions given to all the students

- 6.Geomorphic process
- 7.Landforms
- Lessons
- Notes of
- Have to prepare.
- 2. Half yearly question paper is to be solved in note copy
- 3. Fill out all the maps of the world and India of the syllabus and put them in your notebook.

PHYSICS

- 1. According to the instructions given to all the students
- 6.Geomorphic process
- 7.Landforms
- Lessons
- Notes of
- Have to prepare.

2. Half yearly question paper is to be solved in note copy.

4. Fill out all the maps of the world and India of the syllabus and put them in your notebook.

COMPUTER SCIENCE

- Q1. Write two menu driven program using loop and if elif ..else.
- Q2. Write at least 10 python program of For loop and If else.
- Q3. Write the python program of the following pattern
- 1
- 12
- 123
- 1234
- 12345
- * * * * *
- * * * *

* * *

- * *
- *

Q4. Write all the above said program in Practical file only.

INFORMATICS PRACTICES

Q1. Write two menu driven program using loop and if elif ..else.

Q2. Write at least 10 python program of For loop and If else.

Q3. Write the python program of the following pattern

1

- 12
- 123
- 1234
- 12345
- * * * * *
- * * * *
- * * *
- * *
- *

Q4. Write all the above said program in Practical file only.

Hindi

- 1- म ुंशी प्रेमचुंद , कृष्णा सोबती ,कबीरदास ,और भािनी प्रसाद ममश्र जी का जीिन पररचय देते ह ए इनके योगदान का भी िणयन करें ।
- 2- 2- नाटक , कहानी , कविता , सुंस्मरण पि रेखचचत्र की पररभाषा उदाहरण सहहत मलखें ।
- 3- आपके मोहल्ले में बबजली प्राय राबत्र के समय कई- कई घुंटों के मलए चली जाती है । बबजली सुंकट से उत्पन्न कहिनाइयों से अगत कराते ह ए बबजली विभाग के सुंबुंचित अचिकारी को पत्र मलखखए।
- 4- स्िित्त मलखें ऐि 10 हदनों की डायरी मलखें।
- अीरामचररतमान्स के सभी 7 काुंडों का साराुंश अपने शब्दों में मलखखए।
- 6- ननम्रमलखखत विषयों पर रचनात्मक लेख मलखें मेरे बचपन के हदन मेरे जीिन का लक्ष्य

BUSINESS STUDIES

- 1. Sole the Half Yearly question paper
- 2. Write again the Work Sheets shared earlier

History

- Class XI History
- 1. Solve the question paper of half yearly exam correctly
- 2. Revise and learn all taught lessons I e from lesson 1 to 7.
- Map work locate 20 places on the outlined political map of world
 Prepare 10 questions from each taughy lessons with their answer
- Class XII. History
- 1. Solve half yearly question paper correctly
- 2. Prepare a project file for CBSE exam as per topic given in the class 3. Prepare 10 questions from each taught lesson with their answer.
- 4. Revise and learn all taught lessons

Class 12th Autumn Holidays Homework

Physics

- 1. Solve half yearly question paper in notebook.
- 2. Solve any two sample papers and make sure that all topics of related chapters of half yearly exams are included.
- 3. Prepare investigatory project file.

English

1.Solve Half Yearly Question Paper in your English Notebook Properly.10 Marks Will be given for Internal Assessment.
2 You are Chetan Sharma, a commerce graduate from Delhi University. You are seeking a suitable job. You came across an advertisement in The Times of India, inviting young and dynamic fresh graduates as sales assistants in a reputed company. Apply for the said job to Box No. 8365, C/o The Times of India, New Delhi.

3.You are Asma/Ashish, the head girl/boy of XYZ international school. Your school is soon going to publish the annual magazine next month. Write a notice for the notice board of your school inviting students to submit write-ups 4.Your water supply will be suspended for eight hours (10 am to 6 pm) on 6th of May for cleaning of the water tank. Write a notice in about 50 words advising the residents to store water for a day. You are Karan Kumar/Karuna Bajaj, Secretary, Janata Group Housing Society, Palam Vihar, Gurgaon.

5.Write an Article in 150-200 words on"The Healthy Habits to lead a healthy life".

6. Your state government has banned the use of plastic bags. Your are Amarjeet, a reporter of The National Herald. Write a report in 100-125 words on how the ban is being ignored and what damage the indiscriminate use of plastic bags in causing to the environment.

7.Write a report as an eyewitness to the fire accident that occurred in your neighbourhood. Your report should be within 100-125 words. Invent the necessary details. You are Rashi/ Raman of 15, Ballimaran, Delhi.

8.Write a letter to the Editor of National Herald, New Delhi about water scarcity in your locality suggesting ways to improve the position of water supply. You are Ramnath/ Reema of Ghaziabad.

You are Hemant/Himakshi. Write a letter to the Editor of The Times of India, New Delhi expressing your anguish over the problems faced by people due to non-availability of medicine and beds in hospitals, crisis arising in pandemic situation.

Read all the Chapters thoroughly once again and complete all the pending work in fair notebook only.

Geography

- 1. All students have to prepare geography practical file as per the given instructions.
- 2. Half yearly and one pre-board papers have to be done in note copy.
- 3. Fill out all the maps of the world and India of the syllabus and put them in your notebook.

Business Studies

CHA	CHAPTER 01: NATURE AND SIGNIFICANCE OF MANAGEMENT		
1	Assertion (A): Management is a goal oriented process.		
	Reason (R): Management unites the efforts of different individuals in the organizationtowards achieving these goals.		
	(i) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).		
	(ii) Both Assertion (A) and Reason (R) are true and Reason (R) is not correct explanation of Assertion (A).		
	(iii) Assertion (A) is true but Reason (R) is false.		
	(IV) ASSELUOII (A) IS I dise but Reason (R) is true.		

2	Assertion (A): Management helps in achieving organisational objectives only	
	Reason (R): A manager motivates and leads his team in such a manner that individualmembers	
	are able to achieve organizational goals.	
	(i) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of	
	Assertion (A).	
	(ii) Both Assertion (A) and Reason (R) are true and Reason (R) is not correct explanation of	
	Assertion (A).	
	(iii) Assertion (A) is true but Reason (R) is false.	
	(iv) Assertion (A) is false but Reason (R) is true.	
3	In management planning, organizing, staffing, directing and controlling functions areperformed	
	in the same sequence at every level. After controlling, the planning starts again.	
	Identify the feature of management	
	(i) Management is multi-dimensional	
	(ii) Continuous Process	
	(iii) Group Activity	
	(iv) Intangible force	
4	Various individuals perform their role as per their status and department, and then only management	
	function can be executed. It can"t be performed in isolation. Identify the feature of management	
	(i) Goal oriented process	
	(ii) Continuous Process	
	(iii) Group Activity	
	(iv) Intangible force	
5	Identify the reason which makes management important in the light of the fact that it is	
	generally seen that individuals in an organization resist change, as a change often meansmoving	
	from a familiar, secure environment into a newer and a more challenging one.	
	OUESTION NO.6 TO 9 ARE BASED ON THE PARA GIVEN BELOW. CHOOSE THECORRECT OPTION	
	GIVEN BELOW FOR EACH QUESTION:	
	Mayra Ltd. received a new order of 30,000 toys. Mr. Abhilash, the production manager is expected to	
	deliver goods in fifteen days otherwise the contract will be null and void. To retain the customers,	
	Abhilash outsourced the production of 15,000 toys and delivered theorder on time. The outsourcing of	
	production resulted in increase in cost by 50%. Mayra Ltd. uses environment friendly methods of	
	production and disposes off the waste materialby either recycling it or using the same for landfill in	
	such a manner that the aquatic life is	
	not disturbed "	
6	Which concept of management is being adhered to here by Mr. Abhilash?	

	(a)Effectiveness (b) Efficiency (c) Both a. and b. (d) None of these	
7	Which concept of management is being overlooked by Mr. Abhilash?	
	(a)Effectiveness (b) Efficiency (c) Both a. and b. (d) None of these	
8	At which level of management is Mr. Abhilash working?	
	(a)Top level (b) Middle level (c) Lower level (d) Shop floor level	
9	Which objective of management is fulfilled by Mayra Limited? (a)Organisational (b) Personal (c) Social (d) None of these	
10	XYZ Power Ltd. set up a factory for manufacturing solar lanterns in a remote village as there was no reliable supply of electricity in rural areas. The revenue earned by the company was sufficient to cover the costs and the risks. The demand of lanterns was increasing day by day, so the company decided to increase production to generate higher sales. For this they decided to employpeople from the nearby villages as very few job opportunities were available in that area. The company also decided to open schools and crèches for the children of its employees. 1. Identify and explain the objectives of management discussed above	
	CHAPTER 02: PRINCIPLES OF MANAGEMENT	
1	Loyd company limited manufacturer's motorcycle and cars. It has two separate divisions for both of them. Each division has its own in-charge, plans and execution resources. On the account of the working of two divisions overlap. Which principle of management violated by the Loyd company limited. (a) Unity of command (b) Scalar chain (c) Unity of direction (d) Discipline	
2	Mr. Goyal, HR, manager of a company, select each person scientifically, assigns work to itsemployees	
	according to his/her physical, mental and intellectual capability, He also gives them to required training so that they may produce more and earn more. This will ensure their prosperity for the both	
	company and the workers.	
	Identify the principal of management highlighted in the above case.	
	(a) Development each and every person to his her greater efficiency and prosperity	
	(b) Subordination of individual interest to general interest.	
	(c) Produce more and earn more	
2	(d) Physical, mental and intellectual capability development of workers	
3	Assertion (A): Techniques are procedures or methods which involves series of steps to betaken to desired goals	
	Reason (R) principles are the guideline to take decisions or action while practicing	
	techniques.	
	(a)Both (A) and (R) are true.	
	(b)A) is true but (R) is false.	
	(C)(A) is false but (R) is true.	
4	Assertion (A): Ram is given the responsibility to produce 1000 Covid-19 Test Tubes per day, but he is not	
	given the authority to purchase raw material. In absence of raw material in thestore work could not be	
	completed.	
	Reason (R): Ram cannot be blamed because he was not given the matching authority to complete the	
	work on time. (a) Both (A) and (B) are true and (B) is the correct explanation of (A) (b) Both (A) and (B) are true but (B).	
	is not the correct explanation of (A)	
	(c)(A) is true but (R) is false.	
	(d)(A) is false but (R) is true.	
5	Briefly explain the following techniques of Scientific Management as given by F.W. Taylor	
	a. Method study b. Functional foremanship c. Standardization d. Differential piece wagesystem.	

6	Radhika opens a jewelry showroom in Jaipur after completing a course in jewelry designing. She has employed eleven persons in her showroom. For greater productivity, she divides the work into small tasks and each employee is trained to perform his/her specialized job. The sales personsare allowed to close a deal with a buyer by giving a maximum of 10% discount, whereas the decision to given any further discount rests with Radhika as the final authority. In the earlier days of starting of the business, five of her employees were asked to put in extra hours of work. In return she had promised to give them a special incentive within a year. Therefore, after six months when the business was doing well, she awarded a cash bonus to each of these employees to honourher commitment. However, when it comes to setting the conflicts among her employees, she tends to b e more biased towards her female employees. In context of the above case: A) Identify and explain the various principles of management that are being applied by B) Radhika by quoting lines from the paragraph.	
	CHAPTER 03: BUSINESS ENVIRONMENT	
1	Which environment prohibits the advertisement of alcoholic beverages?	
2	Banking sector reforms have led to easier credit terms and better services. This is an example ofa key component of the —Business Environment" name this component?	
3	Demand for reservation in jobs for minorities refers to an example of key component of general environment of business. Name this component.	
4	On 8th November, 2016 the Government of India announced the demonetisation making all Rs.500 and Rs. 1,000 banknotes of the Mahatma Gandhi Series invalid past midnight. The government claimed that the action would curtail the use of illicit and counterfeit cash to fund illegal activity and terrorism. The BSE SENSEX and NIFTY 50 stock indices fell over 6% on the day after the announcement. The decision was heavily criticised by members of the opposition parties, leading to debates in both houses of parliament and triggering organised protests against the government in several places across India. People seeking to exchange their bank notes had to stand in lengthy queues, and several deaths were linked to the inconveniences caused due to the rush to exchange cash. After demonetisation the demand for point of sales (POS) or card swipemachines has increased. E-payment options like Paytm has also seen a rise. In context of the above case: Identify & explain the various dimensions of business environment which relate to the above mentioned case.	
5	Identify the various dimensions of business environment: 1. With the election of a new government the sensex drops by 748 points.	
	2. A particular channel refrains from showing the advertisement of a particular product as it is banned by the government.	
	3. A software is in high demand among the industrial buyers as it can connect all the branchesof a company as a single integrated unit.	
	 4. At the time of holi a large number of manufacturing firms get involved in making colourswhich are used in the celebration of this colourful festival. 5. It is not advisable to open a luxury car showroom in the middle of an economy where percapita income is very low. 	
	CHAPTER 4 : PLANNING	
1	Super Fine Rice Ltd. has the largest share of 55% in the market. The company_s policy is to sellonly for cash. In 2015, for the first time company_s number one position in the industry has been threatened because other companies started selling rice on credit* also. But the managers of Super Fine Rice Ltd. continued to rely on it_s previously tried and tested successful plans which didn t work because the environment is not static. This led to decline in sales of Super Fine Rice Ltd. The above situation is indicating two limitations of planning which led to decline in it sales. Identify these limitations.	
2	Two years ago, Madhu completed her degree in food technology. She worked for sometime in a company that manufactured chutneys, pickles and murabbas. She was not happy in the company and decided to have her own organic food processing unit for the same. She set the objectives and	

	the targets and formulated an action plan to achieve the same. One of her objectives was to earn 10% profit on the amount invested in the first year. It was decided that raw materials like fruits, vegetables, spices, etc. will be purchased on three months credit from farmers cultivating only organic crops. She also decided to follow the steps required for marketing of the products through her own outlets. She appointed Mohan as the Production Manager who decided the exact mannerin which the production activities were to be carried out. Mohan also prepared a statement showing the number of workers that will be required in the factory throughout the year. Madhu informed Mohan about her area wise sales target for different products for the forthcoming quarter. While working on the production table, a penalty of? 100 per day for not wearing caps, gloves and apron was announced. Quoting lines from the above paragraph identify and explain the different types of plans discussed	
	CHAPTER 05: ORGANISING	
1	 Manohar was given a task by his superior to prepare a plan in 20 days. He asked two of his subordinates to work upon two aspects of his task. One of the subordinates met with an accident and could not complete his work. Who is answerable for this task? A. Manohar is accountable. B. Manohar's subordinate is responsible. C. Manohar's superior is responsible. D. None of them is responsible 	
	QUESTION NO. 2 TO 5 ARE BASED ON THE PARA GIVEN BELOW. CHOOSE THE CORRECT OPTION GIVEN BELOW FOR EACH QUESTION: Leo Cloth Ltd. produces only fabrics. After experiencing great success in the fabric industry, the directors of Leo Cloth Ltd. acquired three new manufacturing (Electronics, Mobile Phones, 58 Cement) units and began selling a variety of products in the market. They decided that each unitwould be led by an individual with the ability and competence to handle responsibility. Only female candidates will be considered for the vacant position.	
2	State the type of organisational structure, Leo Cloth Ltd, had followed when they were producing only fabric.	
3	State the organisational structure suitable to Leo Cloth Ltd. after they plan to add more line of products. (a) Functional (b) Divisional (c) Both (a) and (b) (d) None of the above	
4	If organizations want their departments or divisions to be self-contained and independent thenwhich structure is suitable?	
5	Organizations having plans of diversification and expansion, must adapt: (a) Functional structure (b) Divisional structure (c) Both (a) and (b) (d) None of the above	
6	Explain the importance of Decentralization	
	CHAPTER 06: STAFFING	
1	A Company gets application on and off even without declaring any vacancy. However as andwhen the vacancy arises, the company makes use of such applications. Name the source of recruitment used by the company	
2	 Name the concept which relate to the following a) Searching for Prospective candidates b) Streamlining the attributes of a person required for doing a job 	
3	Why is selection considered as negative process?	
4	Explain the various Steps involved in Staffing.	
	CH – 7 – Directing	

1	 Mr. Fernandes is the owner of Unibie Enterprises, carrying on the business of manufacturing electrical appliances. There is a lot of discontentment in the organization and targets are not beingmet. He asked his son, Michel, who has recently completed his MBA, to find out the reason. Michel found that all decision making of the enterprise were in the hands of his father. Moreover, his father did not have confidence in the competency of the employees. Thus the employees werenot happy. (a) Identify any two communication barriers because of which _Unibie Enterprise' was not able to achieve its target. (b) State one more barrier each of the types identified in part (a) above 		
2	A.S. Environs Ltd.' is dealing in Environment- Consultancy. To get the business, the team leader and his team used to travel to different states to give presentation to their clients. As per the policy of the company, the team leader used to travel by air whereas his team travelled by road/train. Itwas not only time consuming but also at times forced the female team members to travel alone. As a result, the subordinates were not acting in a desired manner to achieve organizational goals. The CEO of the company came to know about it. He called the team leader, discussed the matterwith him and decided to change the travel policy of the company. It was decided that in future allthe members including the leader would travel together and usefully utilize the travelling time indiscussion about the presentation to be given to the clients. This made a positive impact and everymember of the team started acting in a manner as desired by the team leader.	າis he he he ed he on າ a	
3	Prateek is working in a multi national company in Noida. He was running temperature for the lastmany days. When his blood was tested, he was found positive for malaria. He was admitted in the hospital and a blood transfusion was advised by the doctors as his condition was very serious. One of his colleagues sent a text message to his superior _Mr. B. Chatterjee'. Mr. B. Chatterjee immediately sent a text message to the employees of the organization requesting them to donate blood for Prateek. When the General Manager came to know about it he ordered for fumigation in the company premises and for cleaning the surroundings. (a) From the above para quote lines that indicate formal and informal communication (b) State any two features of informal communication		
4	Pramod was a supervisor at _Annapurna Ata' factory. The factory was producing 200 quintals ofaata every day. His job was to make sure that the work goes on smoothly and there was nointerruption in production. He was a good leader who would give orders only after consultinghissubordnates and work out the policies with the acceptance of the group. Identify and describe the leadership style being adopted by Pramod.		
5	Anjali had been working with 'Tata Enterprises' for the last ten years. She was famous for her dedication towards the work. When the Manager senior to her retired, all her colleagues thought that now Anjali would be promoted. But to everyone's surprise the vacant post was filled by an outsider 'Miss Monika'. Anjali felt demoralised and her performance started declining. She would absent herself often and could not meet her targets. Miss Monika was a good leader who would not only instruct her subordinates, but also guide and inspire them. She noticed Anjali's behaviour and felt that her performance could be improved. She started involving Anjali in decision-making issues related to the organisation and made her a part of a high-level joint management committee. Anjali was now punctual to office and her performance started improving. (a) Identify the function of management being performed by Monika (b) Name the element of the above function of management which helped Monika to improve Anjali's behaviour. (c) State any three features of the element identified in (b) above CH-8 CONTROLLING		
1	Explain — Critical point controlll with respect to Analyzing deviations, a step in the processof		
Ľ	controlling. Give a suitable example.		
2	Explain —Management by exception with respect to Analyzing deviations, a step in theprocess of controlling. Give a suitable example		
3	A.S. Ltd.' is a large company engaged in assembly of air-conditioners. Recently the companyhad conducted the 'Time' and 'Motion' study and concluded that on an average a worker		

	can assemble ten air-conditioners in a day. The target volume of the company in a day is assembling of 1,000 units of air-conditioners. The company is providing attractive allowances to reduce labour turnover and absenteeism. All the workers are happy. Even then the assembly of air-conditioners per day is 800 units only. The reason the company compared actual performance of each worker and observed through C.C.T.V. that some of the workers were busy in gossiping. (a) Identify the function of management discussed above. (b) State those steps in the process of the function identified which are discussed in the above paragraph	
	CHAPTER 09: FINANCIAL MANAGEMENT	L
1	 Financial leverage is called favourable if : (a) Return on investment (ROI) is lower than the cost of debt (b) ROI is higher than the cost of debt (c) Debt is easily available (d) If the degree of existing financial leverage is low 	
2	 Financial planning arrives at : (a) Minimising the external borrowing by resorting to equity issues (b) Entering that the firm always have significantly more fund than required so that there is no paucity of funds (c) Ensuring that the firm faces neither a shortage nor a glut of unusable funds. (d) Doing only what is possible with the funds that the firms has at its disposal 	
3	In the paint industry, various raw materials are mixed in different proportions with petroleum for manufacturing different kinds of paints. One specific raw material is not readily and regular available to the paint manufacturing companies. Bonler Paints Company is also facing this problem and because of this there is a time lag between placing the order and the actual receipt of the material. But, once it receives the raw materials, it takes less time in converting it into finished goods. Identify the factor affecting the working capital requirements of this industry	
4	Aarohan Ltd. An automobile manufacturer was diversifying into manufacturing two-wheelers. They knew that India is on a growth path and a new breed of consumer is eager for a first vehicle. The market responded very well to the new product. The company did not have to allow credit, as it had advance orders from four to six months with deposits paid. Also, due to efficiency in managing their operations as soon as a vehicle was off the assembly line, it was out to the dealers. Give any one reason discussed above which helped the firm in managing its working capital efficiently.	
5	Yogesh, a businessman is engaged in purchasing and selling of Ice-creams. Identify the workingcapital requirement of Manish giving reasons in support of your answer. Explain any two factors that will affect his fixed capital requirements.	
6	Well being Ltd. is a company engaged in production of organic foods. Presently, it sells its products through indirect channels of distribution. But, considering the sudden surge in the demand for organic products, the company is now inclined to start its online portal for direct marketing. The financial mangers of the company are planning to use debt in order to take advantage of trading on equity. In order to finance its expansion plans, it is planning to raise a debt capital of Rs.40 lakhs through a loan @ 19% from an industrial bank. The present capital base of the company comprises of Rs.9 lakh equity shares of Rs.10 each. The rate of tax is 30%.In context of the above case: (a) What are the two conditions necessary for taking advantage of trading on equity? (b) Assuming the expected rate of return on investment to be same as it was for the current year i.e. 15%, do you think the financial managers will be able to meet their goal. Show your workingsclearly.	
7	_Sarah Ltd' is a company manufacturing cotton yarn. It has been consistently earning good profits for many years. This year too it has been able to generate enough profit. There is availability of enough cash in the company and good prospect for growth in future. It is a well managed organisation believes in quality, equal employment opportunities and good remuneration practices. It has many shareholders who prefer to receive a regular income from	

their investments. It has taken a loan of Rs 40 lakh from IDBI and is bound by certain restrictionson the payment of dividend as per terms of loan agreement. The above discussion about the company leads to various factors which decide how much of theprofit should be retained and how much about to be distributed by the company. Quoting the lines from the above discussion Identify and explain any four such factors.
Project Work Decide and Choose any one topic for your project out of four topics prescribed by CBSE. Project One: Elements of Business Environment II. Project Two: Principles of Management III. Project Three: Stock Exchange IV. Project Four: Marketing

Maths

- 1. Do any one of the **projects** given below
- A. Mathematics and I.T. :writing of mathematical programmes, algorithms, circuit diagrams.
- B. Applications of conic section, 3d Geometry and vectors in Physics.
- C. Form a differential equation of growth of bacteria in different environments.

2. Do any of the following **activities**

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	केंद्रीय विद्यालय सेक्टर 5 ,द्वारका
	कक्षा -12 , A,B,D
1- छायावाद युग वर्णन करें ।	के किल्हीं चार कवियों का सामान्य परिचय देते हुए उनकी प्रमुख कृतियों एवं उपलब्धियों का भी
2- पत्रकारिता वे	छेत्र में दिए जाने वाले सभी पुरस्कारों के विषय में विस्तृत जानकारी दीजिए ।
3-सड़क दुर्घटना दिल्ली को एक प	ग्रस्त किसी व्यक्ति के प्रति पुलिस के असहयोगपूर्ण व्यहवार का वर्णन करते हुए पुलिस आयुक्त त्र लिखिए और उपयुक्त कदम उठाने का आग्रह कीजिए।
4- बैंक ऑफ इंडि	या में कार्यालय सहायक के रिक्त पद के लिए महाप्रबंधक को स्ववृत्त सहित आवेदन पत्र लिखिए ।
5- दिए गए विष	र्यो पर लगभग 150 शब्दों में लेखन करिए ।
परीक्षा के दिन	
मेरे शहर का म	ोला
ਨ ਨਿਹੀ ਸਤ. ਸ	विका से शिक्षा संबंधी कोई 4 विजापन काटकर चिपकाएं।

Political Science

Solve the half yearly question paper SET 1 and SET 2 in your political science fair notebook. Complete your notebook work till chapter: challenge and restoration of the Congress system ∠ Complete your CBSE project file according to the topic allotted to you.

∠ > Special Points

The project work should be of 20 to 22 pages.

Index and acknowledgment letter should be attached to the project work. Pictures, maps and figures should be used to make the project work attractive.

All the students will make their own separate projects.

Biology

 S C A: + E :
 KV SEC 5 DWARKA -II BIOLOGY
 Class 12 autumn holiday hw
 Complete investigatory project and submit on the day of reopening.
 Solve half yearly paper of shift 1 and 2
 Make model for science exhibition on the given topics.
 Solve following CCT questions in your copy
 https://drive.google.com/file/d/1m5_9B5Pvjjtu YQF94IjTMHzxHQy_beYO/view?usp=drivesd k

Information Practices

Q1. Prepare Project File for the AISSCE Practical Exam 2023-2024 on the following topics

- **1. LIBRARY MANAGEMENT SYSTEM**
- 2. SCHOOL MANAGEMENT SYSTEM
- 3. HOSPITAL MANAGEMENT SYSTEM
- 4. EMPLOYEE MANAGEMENT SYSTEM
- 5. AIR LINE RESERVATION SYSTEM
- 6. RAILWAY RESERVATION SYSTEM
- 7. CULTURAL ACTIVITY BASED INFORMATIVE SYSTEM
- **8.** EMPLOYEMENT SYSTEM
- **9.** PAYROLL SYSTEM
- **10.** ANY OTHER TOPICS

Project covered and based on all python syntax and command of your CBSE prescribed syllabus book and other references like Internet You can visit the website Python4Cs, Know python Bytes websites for reference only.

NOTE: Its compulsory to all submit your project and practical file for correction after AUTUMN Break.

Computer science

- Q1. Prepare Project File for the AISSCE Practical Exam 2023-2024 on the following topics
 - **1.** LIBRARY MANAGEMENT SYSTEM
 - **2.** SCHOOL MANAGEMENT SYSTEM
 - **3.** HOSPITAL MANAGEMENT SYSTEM
 - 4. EMPLOYEE MANAGEMENT SYSTEM
 - **5.** AIR LINE RESERVATION SYSTEM
 - 6. RAILWAY RESERVATION SYSTEM
 - 7. CULTURAL ACTIVITY BASED INFORMATIVE SYSTEM
 - **8.** EMPLOYEMENT SYSTEM
 - 9. PAYROLL SYSTEM
 - **10.** ANY OTHER TOPICS

Project covered and based on all python syntax and command of your CBSE prescribed syllabus book and other references like Internet You can visit the website Python4Cs, Know python Bytes websites for reference only.

NOTE: Its compulsory to all submit your project and practical file for correction after AUTUMN Break.

Accountancy

- 1. Solve the half yearly question paper Again.
- 2. Solve all the monthly test paper

Chemistry

- Solve all the question paper of half yearly
- Practice all the name reactions.

Economics

Q1.Explain determination of equilibrium level of income output and employment by AD AS approach? S-I approach also?

Q2 Explain objective of Government Budget ?

Q3.Explain function of central bank?

- Q4.Explain goals of five year plan?
- Q5, Explain function of investment multiplier?

Q5.write formula of MPC, MPS. APC, APS , Investment multiplier, consumption function, saving function?

Q6 Make diagram of AD, AS, consumption functions. Saving functions?

Q7.Explain sustainable development and its Importance?

Q8.Compare groth path of India, China and Pakistan?

Q9. Explain Excess Demand and Deficient Demand with the help of diagram?

Q10.Explain method of correction of excess Demand and Deficient Demand?

History

- Solve all half yearly question paper
- Prepare a project file for CBSE exam as per topic given in the class
- Prepare 10 question from each taught lesson with their answer
- Revise and learn all taught lessons.