

CLASS- 6

ENGLISH

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| 1. Make A project on "Parts of speech" in your C.W. Copy (Noun, Pronoun, Verb, Adverb, Proposition, Conjunction, Interjection.) |
| 2. Reader:- Complete unit 1 (celebration) and unit 2 (Hobbies) |

HINDI

1. किसी एक हिंदी समाचार पत्र से पाँच दिनों के खेल समाचार अपनी व्याकरण कॉपी में चिपकाएँ।
2. अपने शहर के पाँच दिनों का सबसे अधिक और सबसे कम तापमान का ब्यौरा अपनी व्याकरण कॉपी में लिखें।
3. विद्यालय में पर्याप्त मात्र में खेल सामग्री उपलब्ध कराने के लिए प्राचार्य को आवेदन पत्र अपनी व्याकरण कॉपी में लिखें।
4. वाद-विवाद प्रतियोगिता में प्रथम स्थान प्राप्त करने पर मित्र को बधाई पत्र अपनी व्याकरण कॉपी में लिखें।
5. 'समय का महत्व' शीर्षक पर अपनी व्याकरण कॉपी में अनुच्छेद लिखें।
6. 'इन्टरनेट वरदान या अभिशाप' शीर्षक पर अपनी व्याकरण कॉपी में अनुच्छेद लिखें।
7. 'ज्ञान सागर' और 'अभ्यास सागर' पुस्तक में पठित पाठों को दोहराएँ।
8. अभ्यास सागर पुस्तक से पाठ 1 से 10 तक में से पर्यायवाची, मुहावरे और वाक्यांशों के लिये एक शब्द चुनकर अपनी व्याकरण कॉपी में लिखें।

SANSKRIT

1. शब्दरूपाणि लिखन्तु- बालककिम् , एतत् , तत्) फल ,लता , त्रिषु लिंगेषु (
2. -धातुरूपाणि लिखन्तु---- (लट् , लृट् , लङ् , लोट् विधिलिङ्)
पठ् , भू , अस् ,
3. द्वितीयतृतीयपाठयोः 'मम प्रियः विद्यालयः' 'चत्वारि प्रियमित्राणि' हिंदीभाषायाम अनुवादं कुर्वन्तु ।
नोट - सभी कार्य संस्कृतकॉपी में लिखें ।)

MATHEMATICS

1. Write the properties of addition, subtraction, multiplication and division with an example.
2. Multiply the following using distributive property:-
 - a) 625×1005
 - b) 828×98
3. Find HCF of the following numbers by continued division method :-
 - a) 1794, 2346, 4761

b)1624,522,1276

4. Find the smallest number which when divided by 35, 65 and 75 leaves a remainder 7.
5. Find the LCM of 80, 120 and 135.
6. Find the greatest number that can exactly divide 140, 170 and 155 leaving remainder 5 in each case.
7. Which of the following numbers are divisible by 11:-
a) 658911 b) 825683
8. Solve the following :-
a) $650*18+650*48+650*30+650*4$
b) $659*45+659*50+659*5$
9. Rearrange and multiply the following:-
a) $250*8*625*4$
b) $200*61*60*10$
10. Convert the following roman numerals into hindu arabic numerals:-
a) XLIX b) XCVII c) LXXIX d) XCI

SCIENCE

Note:-Projects to be done in separate scrap book

1. Draw or paste pictures of a terrestrial food chain and label them.
2. Draw or paste pictures of an aquatic food chain and label them.
3. Draw a mineral cycle.
4. Stick two samples of solids soluble and insoluble in water.
5. Write 10 extra very short question answers of Chapter –Nature of Matter. (one word answer)

SOCIAL SCIENCE

Q1. Revise

- Chapter - 1. The Planet Earth & Solar System.
- Chapter- 8. Studying the Past.
- Chapter- 21. Our Community life. Unity in Diversity.

Q2. Draw Different conventional symbol. Page -15(Geography Note Book).

Q3. Do the Map skill Page -182 in your His/Civics Note book.

Q4. Write Short note on any one of these Social Reformer
Swami Dyanand Sarsawati or Raja Ram Mohan Roy .Also stick the Picture.

MED

GK

1. Complete all the answers of the questions of your G.K book from page 1 to 31
2. Learn all the answers properly.

COMPUTER

Note: for help please refer to chapter - 1: -

1. Let Us Explore - Our Computing System, Application Software

1. What is a **Computer**? Name two components.
2. What is **Hardware** and **Software**? Name any three.
3. What is **Instruction** and **Program**?
4. How many types of **Hardware**? Name them.
5. What is **System Software**? Name the types of **System software**.
6. What is **OperatingSystem**? Explain.
7. What happens **when we switch on the computer system**? And what is **Booting**?
8. Explain the functions of **OperatingSystem**.
9. Explain the types of **OperatingSystem**.
10. What is Anti-Virus **Software**?
11. What are the functions of **UtilitySoftware**?
12. What is **Application Software**? Any two example.
13. What do you know about **SoftwareLicense**?
14. What is **OpenSourceSoftware**? Any two example.
15. What is a **Proprietarysoftware** or **ClosedSourceSoftware**? Any two example.

CLASS- 7

ENGLISH

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| 1. Write an article on the following topics:- (i) Prevention is better than cure. (ii) Computer a boon or bane. |
| 2. Reader:- Complete (i) people at work (ii) Relationship |

HINDI

1. पाठ 3 और 4 पढ़ें और प्रश्न उत्तर व्याकरण कॉपी में लिखें |
2. पाठ 6 समय कविता याद करें |
3. हर दिन एक पाठ ज़ोर-ज़ोर से बोलकर वाचन करें |

4. प्रतिदिन एक पेज सुलेख लिखें ।
5. पाठ 1 से 10 तक अभ्यास से -
 - क) विपरीतार्थक शब्द
 - ख) पर्यायवाची शब्द
 - ग) अनेक शब्दों के लिए एक शब्द
 - घ) मुहावरों की सूची बनाइये
6. आपके क्षेत्र में बहुत अधिक गंदगी फैली हुई है इसके बारे में बताते हुए नगर पालिका को पत्र लिखें ।
7. 'कम्प्युटर का महत्व ' और 'समय का महत्व ' शीर्षक पर निबंध लिखें ।
(सभी लिखित कार्य अपनी व्याकरण की कॉपी में करें)

SANSKRIT

1. शब्दरूपाणि लिखित्वा स्मरन्तु - देव) , अस्मद् युष्मद्, फल , भानु , लता ,तत् (एतत् किम् त्रिषु लिङ्गेषु ,
2. धतुरूपाणि पञ्चलकारेषु लिखित्वा स्मरन्तु -पठ् भूअस्
3. प्रथमद्वितीयपाठयोः हिंदीभाषायाम् अनुवादम्कुर्वन्तु ।

MATHEMATICS

Page-18

- 1) On a number line, what is the length of the line segment joining :
(a) 3 and -3 (b) $1/2$ and $5/2$ (c) $1/2$ and $-1/2$
(d) $-1/2$ and $-5/2$
- 2) Find the value of x in each of the following:
(a) $23/x = 2/-8$ (b) $x/9 = 19/3$ (c) $15/-x = 1/-7$
- 3) Compare the number in each of the following pairs of numbers:
(a) $-5/7, 9/-13$ (b) $-4/9, -3/7$ (c) $-3/-5, 12/20$ (d) $-4/5, -5/4$ (e) $5/7, -15/21$ (f) $-8/-9,$
- 4) Fill in the following blanks:
(a) $3/5 = 138/___$ (b) $7/9 = ___/108$ (c) $___/-15 = 48/90$
(d) $121/= ___ - 11/12$

Page: 35

- 5) Verify the property $x*(y + z) = x*y + x*z$ by taking
(a) $x = 1/3, y = 1/5, z = 1/7$ (b) $x = -3/7, y = 2/5, z = -4/9$
- 6) Show that: $-4/3*(2/5 + -7/10) = (-4/3*2/5) + (-4/3*-7/10)$
- 7) Show that: $3/5 *(-1/7 - 5/14) = (3/5*-1/7) - (3/5*5/14)$
- 8) Simplify and express the result in standard form

- (a) $-4 \cdot (7/3 - 9/10)$ (b) $7/3 \cdot (9/8 + 3)$ (c) $(-4/3 + 5/7) \cdot 7/9$
 (d) $(5/4 - 6/20) \cdot 8/11$

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9) Verify that $(x-y)^{-1}$ is not equals to $x^{-1} - y^{-1}$ by taking
 $X = -2/7, y = 4/7$.

10) Verify that $(x + y)^{-1}$ is not equals to x^{-1}, Y^{-1} by taking $x = 5/9, y = -4/3$.

11) Verify that $(x \cdot y)^{-1} = x^{-1} \cdot y^{-1}$ by taking $x = -2/3, y = -3/4$

12) Fill in the blanks:

- (a) The number _____ that has no reciprocal.
 (b) _____ & _____ are their own reciprocals.
 (c) If a is the reciprocal of b, then b is reciprocal of _____.
 (d) $(11 \cdot 5)^{-1} = (11)^{-1} \cdot$ _____.
 (e) $-1/8 \cdot$ _____ = 1
 (f) _____ $\cdot (-16/3) = 1$.

Page: 44

13) By taking $x = 3/4$ & $y = -5/6$, verify that x/y is not equals to
 y/z .

14) The product of two rational number is $-3/7$. If one of the number is $5/21$, find the other.

15) With what number should we multiply $-36/35$, so that the product be $-6/5$.

16) From a rope of length 40metres, a man cuts some equal sized pieces. How many piece
 cut if each piece is of $4/5$ metres length?

Page: 48

17) For $x = 3/4$ & $y = -9/8$, insert a rational number between

- (a) $(x + y)^{-1}$ & $x^{-1} + y^{-1}$
 (b) $(x - y)^{-1}$ & $x^{-1} - y^{-1}$

18) Simplify: (a) $[5/7 - 2/3] + [3/14 - 5/7]$ (b) $(5/11)^{-1} - 13/5 + 3/15$

(c) $9/5 \cdot -2/27 + 7/30$ (d) $-7/15 / (50/3)^{-1}$.

19) Divide:

- (a) The sum of $5/21$ & $4/7$ by their difference.
 (b) The difference of $12/5, -16/20$ by their product.

20) Find a reciprocal of $-2/3 \cdot 5/7 + 2/9 / 1/3 \cdot 6/7$.

SCIENCE

PHYSICS

CHEMISTRY

1. Write the name and symbol of any 20 elements.
2. Make a list of cations and anions.
3. Stick the samples of following metals Aluminium, Iron, Copper.
4. Give 5 examples of each physical and chemical change.

Write the chemical formulae of the following

- | | | | |
|--------------------|------------------------|--------------------------|-----------------------|
| i) Calcium Acetate | ii) Ammonium Hydroxide | iii) Sodium Acetate | iv) Calcium Nitrate |
| v) Iron Chloride | vi) Sodium Carbonate | vii) Magnesium Phosphate | viii) Copper Sulphate |
| ix) Zinc chloride | x) Aluminium Oxide | | |

Note :- Homework is to be done in Chemistry Copy.

BIOLOGY

1. Make a project on photosynthesis.
2. Write 20 extra question answers of Nutrition in plants in assignment copy.

SOCIAL SCIENCE

[A] Revise

[i] ch.1. Components of Environment.

[ii] Ch.9. Medieval Period.

[iii] Ch.18. Democracy and Equality.

[B] GEOGRAPHY: [in Geog. Copy]

[i] On an outline map of the world, show the given National Parks.

- {a} Gir National Park- India.
- {b} Jim Corbett National Park- India.
- {c} Yellowstone National Park- USA.
- {d} Serengeti National Park- Tanzania
- {e} Fiord land National Park- New Zealand.

[ii] Take an outline map of India. Locate and label the areas of major soil types on it. Mention the names of states of each soil type.

[iii] Draw the diagram of Soil layers.

[C] HISTORY [in History Copy]

[i] Write a brief notes on any two of the following foreign visitors who wrote travel accounts of medieval period of India.

- {a} Ibn Battutah
- {b} Marco Polo
- {c} Bernier

[D] CIVICS [in Civics Copy]

[i] Make a list of different Poverty Alleviation Programmes and Income Generation Programmes launched by government.

MED

GK

COMPUTER

Note: for help please refer to chapter - 8: -

8. Internet and Web Services

1. What are the advantages of **Chatting**?
2. What are the advantages of **Email**?
3. What are the advantages of **Video Conferencing**?
4. What are the advantages of **Social Networking**?
5. What are the advantages of **E-Learning**?
6. What are the advantages of **E-Shopping**?
7. What are the advantages of **E-Reservation**?
8. What are the advantages of **E-Banking**?
9. What is **E-Banking**? Explain.
10. List the Hardware devices required for **Video Conferencing**.

CLASS-8

ENGLISH

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| 1. Write a composition on the following topics:- (i) Media:- impact on teenagers. (ii) the self-centered generation. |
| 2. Reader:- Complete (i) changing times (ii) compassionate souls. |

HINDI

SANSKRIT

1. शब्दरूपाणि लिखित्वा स्मरन्तु देव - , लता , फल नदी , मुनि ,साधु , फल ,अस्मद् युष्मद् (तत्, एतत् किम् त्रिषु लिङ्गेषु)
2. धतुरूपाणि पञ्चलकारेषु लिखित्वा स्मरन्तु पठ् , भू , स्था , दृश , गम् , अस् स्मृ ,
3. एकतः पञ्चाशत् पर्यन्तं (50 - 1)संख्याः लिखन्तु --

MATHEMATICS

Solve following questions:

1. The area of a square plot is $101\frac{1}{400}$ m², Find the length of one side of the plot.
2. What is that decimal which when multiplied by itself gives 227.798649.
3. Difference of two numbers, which are perfect cubes is 189; if the cube root of the smaller of the two numbers is 3, find the cube root of the larger number.
4. Find the least number of 4 digits which is perfect square. Find the square root of this number.
5. Find square root of 25.63 correct to 2 decimal places.
6. Find cube root of 300763 through estimation.
7. Find the cube of (-1.1).
8. Find the smallest number that must be added to 37460 to make it a perfect square.
9. Find the smallest number by which 12348 be multiplied so that the product is a perfect cube. Also find the cube root of resulting number.
10. Find square root of 289 by repeated subtraction method.

For Subject Enrichment

1. List 10 Pythagorean triplet.
2. With the help of paper cuts square and rectangle show that $(a + b)^2 = a^2 + 2ab + b^2$
3. Draw a colourful map of the route from your house to your school showing important landmarks shown with appropriate symbols.
4. Write a short notes on value of maths in your life, any 10 points.
5. Make 3D figures of square prism, square pyramid, triangular prism and cuboid write no. of faces, vertex Edges and verify Euler's Formula -> $F + V = E + 2$

Note: All the Project and Assignment work should be done in cardboard file.

SCIENCE

PHYSICS

CHEMISTRY

*Note:-Project work (in file)

- 1.Prepare a project on petroleum or coal

*Extra Questions in copy.

1. Write Ques/Ans of Ch. 6.
2. Write the different types of combustion .Stick the relevant pictures for each.
3. Draw and describe the soda acid type fire extinguisher.
4. How was coal formed.
5. State two uses of each of a. Asphalt b. Paraffin

BIOLOGY

1. Prepare a project on agricultural practices.
2. Write 20 extra question answers of Crop Production and its management in assignment copy.

SOCIAL SCIENCE

- Q1. List the main sources of information of the modern period of History .Explain briefly.
Q2. Why did the British Government pass the vernacular press act in the year 1878?

Civics

- Q1. Stick picture of the some members of Constituent Assembly and write few line about them.
Q2. Write some important features which has been borrowed from foreign Constitution.

Geography

Prepare a chart showing the classification of resources. Also give a suitable example of each category of resources.

MED

GK

1. Complete all the answers of the given questions of your G.K book from 1 to 25
2. Learn all the answers properly

COMPUTER

Note: for help please refer to chapter - 9: -

9. The Cyber World, Cyber Crime and the law

1. What is **Cyberbully**?
2. Why children **Cyberbully**?
3. What are the effects of **Cyberbullying**?
4. How to prevent **Cyberbullying**?
5. What is **Cyber Crime Cell**?
6. What is **Cyber Crime**? List the types of **Cyber Crime**.
7. What is **Cyber Law**?
8. Who is **Hacker**?
9. Write some security tips for **safe use of Network**.

10. Write few suggestions so that **the internet or the computer** cannot be misused by strangers.

CLASS-9

ENGLISH

1. Make a project on "Figures of speech" give three examples of each:- (i) Simile (ii) Metaphor (iii) Personification (iv) Hyperbole (v) Alliteration (vi) Pun (vii) Onomatopoeia (viii) Synecdoche (ix) Metonym (x) Oxymoron.
2. Revise the taught portion.

HINDI

हिंदी अवकाश - गृहकार्य
Std IX 2019-20

- 1) "दो बैलौ की कथा" और "लहासा की ओर" --
पाठों के प्रत्येक अनुच्छेद से 3-4 प्रश्न लिखिए।
(हिन्दी गृहकार्य पुस्तक में)
- 2) उपसर्ग, प्रत्यय, समास और अलंकार को पढ़ें।
- 3) अपने जन्मदिन पर मित्र द्वारा भेजे गए उपहार के लिए धन्यवाद पत्र लिखें।
- 4) राज्य परिवहन निगम के मुख्य प्रबंधक को पत्र लिख कर बस चालक के प्रशंसनीय साहसिक व्यवहार की प्रशंसा करते हुए उसे विभाग की ओर से सम्मानित करने का आग्रह कीजिये।

Class Teacher -
Co-ordinator -

SANSKRIT

MATHEMATICS

1) Find two irrational numbers whose:

- a) sum is rational, b) sum is irrational, c) difference is rational, d) difference is irrational,
e) product is rational, f) product is irrational, g) division is rational, h) division is irrational.

2) Rationalise the denominator:

a) $\frac{30}{5\sqrt{3}-3\sqrt{5}}$; b) $\frac{2\sqrt{3}}{\sqrt{3}-\sqrt{2}} + \frac{3\sqrt{2}}{\sqrt{3}+\sqrt{2}}$; c) $\frac{1}{1+\sqrt{2}-\sqrt{3}}$; d) $\frac{1}{\sqrt{6}+\sqrt{5}-\sqrt{11}}$

3) If $a = 8 + 3\sqrt{7}$; $b = \frac{1}{a}$, find $a^2 + b^2$.

4) If $x = \frac{\sqrt{5}-\sqrt{2}}{\sqrt{5}+\sqrt{2}}$, $y = \frac{\sqrt{5}+\sqrt{2}}{\sqrt{5}-\sqrt{2}}$, find the value of $x^2 + xy + y^2$.

5) Simplify: $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-\sqrt{4}}$.

6) Find the value of: $\frac{2^{30} + 2^{29} + 2^{28}}{2^{31} + 2^{30} - 2^{29}}$.

7) If $\frac{9^{n+1} \times 3^n - 27^n}{(3^m \times 2)^3} = \frac{1}{729}$, find the value of $(m-n)$.

8) Simplify: $\left(\frac{a}{b}\right)^2 \times \frac{b}{c} \times \left(\frac{c}{a}\right)^3$, when $a = 3, b = a^2, c = a^3$.

9) If $p(x) = x^3 - \sqrt{3}x^2 + 2x - 5$ find $p(3\sqrt{3})$.

10) If $p(x) = x^3 - x^2 + x + 1$, find the value of $\frac{p(-1) + p(1)}{2}$.

11) If the polynomial $p(x) = ax^2 - bx^3 + cx - d$, is divided by $x^2 - 1$, prove that $b = c$.

12) The polynomials $ax^3 - 3x^2 + 4$ and $2x^3 - 5x + a$ when divided by $(x-2)$, leaves the remainder p and q respectively. If $p - 2q = 4$, find the value of a .

13) Find the value of m so that $2x - 1$ is a factor of $8x^4 + 4x^3 - 16x^2 + 10x + m$.

14) If $x = 3$ and $x = \frac{1}{3}$ are factors of $px^2 + 3x + r$, show that $p = r$.

15) If $x + y + z = 0$, find the value of $\frac{x^2}{yz} + \frac{y^2}{xz} + \frac{z^2}{yx}$.

16) Using factor theorem, show that $(a + b), (b + c), (a + c)$ are factors of $(a + b + c)^3 - (a^3 + b^3 + c^3)$.

17) Using factor theorem, factorise $x^3 + x^2 - 4x - 4$.

18) Factorise: $\frac{(x^2 - y^2)^3 + (y^2 - z^2)^3 + (z^2 - x^2)^3}{(x - y)^3 + (y - z)^3 + (z - x)^3}$.

19) Without actual division, prove that $2x^4 + x^3 - 14x^2 - 19x - 6$ is exactly divisible by $x^2 + 3x + 2$.

20) Prove that $(a+b+c)^3 - a^3 - b^3 - c^3 = 3(a+b)(b+c)(c+a)$.

SCIENCE

PHYSICS

CHEMISTRY

*Note:- Prepare Project work in file.

1. Prepare a project on "Solution, Suspension and Colloids". Stick two samples of solutions, suspension and colloids each and write their characteristics feature of each.

*Extra Questions in copy.

1. Write the Question Answers from 1 to 9 of Chapter 1 (given in NCERT book).
2. Tabulate the differences in the characteristics of the three states of matter.
3. Define latent heat of fusion and latent heat of vapourisation.
4. Differentiate between Homogenous and heterogenous mixtures.
5. What is evaporation. State the factors affecting the rate of evaporation.

BIOLOGY

1. Prepare a project on Cell keeping in mind the following:
 - a. Comparative study of plant and animal cell.
 - b. Prokaryotic and eukaryotic cell.
 - c. Behavior of plant cell in different types of solution.
 - d. Nucleus.
2. Write 20 extra question answers of cell in assignment copy.

SOCIAL SCIENCE

HISTORY (in the History copy)

1. Stick the map questions and the French map in the History copy neatly.
2. In an outline world map mark the two groups of 1st world war with separate colours and proper indexing and stick in the History copy.
3. In an outline world map mark the two groups of 2nd world war with separate colours and proper indexing and stick in the History copy.

ECONOMICS (in the economics copy)

Read the unit CAPITAL (unit 6) from CH-1 and answer the following questions:

- Q1. How do the medium and large farmers obtain capital for farming?
- Q2. Among the factor of production which is the most abundant factor?
- Q3. Which is the most scarce factor of production?
- Q4. What is the basic difference between land and capital as a factor of production?
- Q5. On what terms did Savita get a loan from Tejpal Singh? Would Savita's condition be different if she could get a loan from the bank at a low rate of interest?

POLITICAL SCIENCE(in the political science copy)

Carefully read unit 2.3 (chapter-2) and answer the following questions:

- Q1. Briefly describe any five arguments against democracy.
- Q2. Write any five arguments in for of democracy.
- Q3. Justify that a democratic government is more accountable form of government. Give examples.
- Q4. How does democracy improve the quality of decision making?
- Q5. How does democracy enhance the dignity of citizens?

GEOGRAPHY

(i) On an outline map of India show the following.

1. Mountain ans Hill range -the Karakoram, the Zaskar ,the Patkai Bum, the Jaintia, the Vindhya range ,the Aravali, and Cardamom hills.
2. Peaks - K2,Kanchenjunga, Nanga Parbat and the Anai Mudi.
3. Plateaus, chotanagpur and Malwa.
4. The Indian Desert, Western Ghats, Lakshadweep Islands.

(((ii) Prepare a Project on Disaster Management

T Topic- Cyclone "Fani". As per as following guidelines-

- O - Meaning
- - Causes
- - Do's and don'ts
- - Prevention and mitigation measures
- - Your emergency kit
- - Latest means of forecasting Disasters

COMPUTER

CH-TYPES OF SOFTWARE

I. ANSWER THE FOLLOWING QUESTIONS:-

- 1) *What is a software?*
- 2) *Name and explain the two categories of software.*
- 3) *Name the different types of system software and explain them with examples.*
- 4) *Differentiate between assembler, interpreter and compiler.*
- 5) *What is utility software? Name some utility softwares.*
- 6) *What is application software? Name some application softwares.*
- 7) *What is DBMS? What are the application software used in DBMS?*
- 8) *What is mobile application? Name some mobile utility apps, entertainment, social networking and gaming apps.*
- 9) *What are customized software? Give some advantages and disadvantages of it.*

- 10) Name some of the tasks performed by operating system.
- 11) What are the features of electronic spreadsheet?
- 12) What is a computer virus? How does it affect the computer system?
- 13) What are the features of word processors?
- 14) Name some anti viruses.
- 15) How is a file management software useful?
- 16) What is cipher text?

II. Make a power point presentation on any topic of your choice.(min 10 slides)

CLASS-10

ENGLISH

1. Do exercise on Tenses, Prepositions, Modals (10 sentences each)
2. Read a book and write a book review.
3. Revise the chapters taught in class.

HINDI

1. नेताजी का चश्मा पाठ- 10

2. बालगोबिन भगत – पाठ -11

पाठ के हर अनुच्छेद से 3-3 प्रश्न बनाएँ |

*बालगोबिन भगत पाठ का प्रश्नोत्तर करें |

* माता का आँचल पाठ का प्रश्नोत्तर करें

*वाच्य के भेद एवं उदाहरण ,रचना के आधार पर वाक्य भेद व्याकरण कॉपी में लिखिए|

* एक औपचारिक और अनौपचारिक पत्र किसी भी विषय पर लिखें |

SANSKRIT

MATHEMATICS

1. Find the HCF of the following numbers using Euclid's division algorithm.

i) 4 and 19

ii) 867 and 255

iii) 441 , 567 and 693

2. Find the LCM and HCF of the following and verify the result ---- $\text{LCM} \times \text{HCF} = \text{product of both numbers}$.
 - i) 120 and 114
 - ii) 156 and 96
3. Find the largest integer which divides 245 and 1029 leaving remainder 5 in each case.
4. Prove that any positive integer is of the form $3q$, $3q+1$ or $3q+2$.
5. Prove that the cube of any integer is of the form $4m$, $4m+1$ or $4m+3$ for some integer m .
6. State Fundamental Theorem of Arithmetic.
7. Prove that $n^2 - n$ is divisible by 2 for every positive integer n .
8. In a circular field of circumference 360 km, two persons start together and can cycle at speed of 12km/h and 15km/h around the circular field. After how many hours will they meet again at the starting point.
9. Prove that $\sqrt{2} + \sqrt{3}$ is irrational.
10. Find the zeroes of the polynomial $4\sqrt{3}x^2 + 5x - 2\sqrt{3}$.
11. For what value of k , 3 is a zero of the polynomial $2x^2 + x + k$.
12. Find the zeroes of the quadratic polynomial and verify the relationship between their zeroes and their coefficients.
 - i) $x^2 - 2x - 8$.
 - ii) $2x^2 - 7x/2 + 3/4$
13. If α and β are the zeroes of the polynomial $p(x) = 2x^2 - 4x + 5$ then find the values of
 - i) $\alpha^2 + \beta^2$
 - ii) $1/\alpha + 1/\beta$
 - iii) $1/\alpha^2 + 1/\beta^2$
 - iv) $\alpha^3 + \beta^3$
14. Divide the first polynomial by the second and find the Quotient and Remainder. Also verify the result.
 - i) $p(x) = 3x^3 - 3x^2 - 5x - 3$;; $g(x) = x^2 - 2$
 - ii) $p(x) = 4x^4 - 3x^2 + 4x + 5$;; $g(x) = x^2 + 1 - x$
15. Find all the zeroes of the polynomial $p(x) = x^4 + 3x^3 - x^2 + 9x - 6$ if two zeroes are $\sqrt{3}$ and $-\sqrt{3}$.
16. Solve the equations graphically and find the vertices of the triangle made by it at the x -axis.

$$x - y = -1 \quad ; ; \quad 3x + 2y = 12$$

17. Solve the system graphically:-

$$2x + 3y = 6 \quad ; ; \quad 4x + 6y = 24.$$

18. Solve by substitution method :-

$$2x - 7y = 7 \quad ; ; \quad 4x + 3y = 15.$$

19. Solve:- $6(ax + by) = 2a + 2b$

$$6(bx - ay) = 3b - 2a.$$

20. The sum of two digit number and the number obtained by reversing the digits is 99 . If the difference of the digits of the number is 3 , find the number .

SCIENCE

PHYSICS

CHEMISTRY

*Note:-Project work (on chart paper)

2. Prepare a project on "Some common Chemicals". Stick 5-6 samples .Write their commercial name, chemical name and chemical formula.

*Extra Questions in copy.

6. Write the Question Answers from 1 to 20 of Chapter 1 (given in page 14-16 NCERT).
7. What is rancidity? Enlist some ways of preventing rancidity.
8. What is corrosion? How can you prevent rusting of iron?
9. Differentiate between oxidation and reduction. Give some examples of oxidizing and reducing agent.
10. Write 10 balanced chemical equations.

BIOLOGY

1. Give review of the following:

- a. Human respiratory system.
- b. Nutrition in amoeba and human.

2. Write 20 extra question answers of Life Processes in assignment copy.

SOCIAL SCIENCE

1)LEARN ALL THE ANSWERS OF THE TOPICS TAUGHT->

HISTORY-> CHAPTER-1-NATIONALISM IN EUROPE- UNIT 1,2

POLITICAL SCIENCE-> CHAPTER-1- POWER SHARING

ECONOMICS->CHAPTER-1- DEVELOPMENT

GEOGRAPHY-> CHAPTER-1-RESOURCES AND DEVELOPMENT

2)MAP WORK –a)CHAPTER-3-NATIONALISM IN INDIA-LOCATE MAIN CENTRES OF INDIAN NATIONAL

MOVEMENTS-i)Delhi ii)Amritsar iii)Lucknow iv)Bombay v)Calcutta vi)Madras vii)Surat viii)Ahmedabad

b)Map of Europe during Vienna Settlement of 1815. (draw outline of map freehand-hint –textbook)

3)TERMS- (to be written in copy)

a)Federalism b)Utopia c)Development d)Civil War e)Coalition Government f)Plebiscite g)Per-capita income h)Nation i)Conservatism j)Majoritarianism

4)Answer the following in five points-

a)Process of unification of Germany

b)Process of unification of Italy

c)Process of unification of Britain

d)Contributions of Gueseppe Mazzini, Napoleon Bonaparte, Otto Von Bismarck

5)PROJECT- Subject- Disaster Management-Topic- Sustainability (For Project heading and other details-contact Geography subject teachers)

COMPUTER

I. Answer the following questions:

Q.1. What do you understand by web servers?

Q.2. What do you mean by email? Write its advantages and disadvantages.

Q.3. Differentiate between: (i) CC and BCC in email (ii) Spam and junk mail

Q.4. What is a search engine? Name some search engines.

Q.5. What is a Telnet? How does it work?

Q.6. What is video conferencing? What are its advantages and disadvantages?

Q.7. What is e-learning? Write its benefits.

Q.8. Name some popular e-learning software.

Q.9. Write some advantages and dis-advantages of e-shopping. Name some e-shopping websites.

Q.10. Give some benefits of e-reservation.

Q.11. What is e-governance?

Q.12. Give some positive and negative impact of e-governance.

Q.13. What is e-group? Give its benefits.

Q.14. What is social networking? Name some social networking sites.

Q.15. What are the ethics in social networking sites?

II. Draw a table showing all the tags, their attributes and descriptions in HTML.

Q.16. Differentiate between 3G and 4G.

CLASS-11 (SCIENCE)

ENGLISH

1. Write an article in 150-200 words on the topic , “Misuse of Scientific Gadgets”.
2. You have just witnessed the greatest strength of our democracy, that is the General Elections 2019. Write a letter to the Editor of a daily newspaper giving your views on how fairly it was conducted and suggest ways to improve.

HINDI

SANSKRIT

MATHEMATICS

SCIENCE

PHYSICS

- Q.1 Learn dimensions of Physical quantities from sl.no 1 to 52 given at the appendix A-9 page 214 of NCERT –Text book of physics (part -1)
- Q.2 Learn SI derived units with special names given at the Appendix A 6.2 Page 209.
- Q.3 *Answer the following question:*
- i) Check the correctness of the relation $f = \frac{1}{2L} \sqrt{\frac{F}{m}}$.Where f is frequency of a vibrating string of length L under tension F and m is mass per unit length .
 - ii) Derive by the method of dimensions, an expression for the volume of a liquid flowing per second (V) which depends upon Pressure gradient ($\frac{dp}{L}$), the radius of the tube (r) and the Coefficient of Viscosity of liquid (η) .
 - iii) Convert 10 newton on a system having 100 g,10 cm and 30 s as fundamental units.
 - iv) How many fermi are there in one meter?
 - v) Why is S I system called rational system of units?
 - vi) Write dimension of Force constant, Velocity gradient, Surface tension, Gravitational constant.
 - vii) Check the correctness of the relation $v = \sqrt{\frac{E}{D}}$.Where v is speed of sound in a medium, E and D are elasticity and density of the medium respectively.
 - viii) Derive by the method of dimensions, an expression for the time of oscillation t of a small drop of a liquid which depends upon the density d,the radius r ,and the surface tension S.
 - ix) Convert 10 joule on a system having 100 g, 10 cm and 30 s as fundamental units
 - x) Find the units of length, mass and time , if the units of force, velocity and energy respectively are 100 dyne, 10 cm/s and 500erg.

ASSIGNMENT GIVEN UNDER MUST BE SUBMITTED BY THE STUDENTS STRICTLY BEFORE 24/06/2019

CHEMISTRY

Re-learning:-

Ch-1(Some Basic Concepts of Chemistry)

1. Calculate the number of molecules present in 0.5 moles of CO_2 ?
2. Vitamin C is essential for the prevention of scurvy. Combustion of 0.2000g of vitamin C gives 0.2998g of CO_2 and 0.819g of H_2O . What is the empirical formula of vitamin C?
3. How many significant figures are present in
(a) 4.01×10^2 (b) 8.256 (c) 100 (d) $0.0125 + 0.7864 + 0.215$
4. Calculate the molarity of the 3m aq. solution of NaCl of density 1.25 g ml^{-1} .
5. Find the molarity of the dilute aq solution of ethanol where the mole fraction of ethanol is 0.040. Assuming that the density of water is 1 g ml^{-1} .
6. How much potassium chlorate should be heated to produce 2.24L of oxygen at NTP?
7. Calculate the weight of lime (CaO) obtained by heating 2000kg of 95% pure lime stone (CaCO_3).
8. 4 litres of water are added to 2L of 6 molar HCl solutions. What is the molarity of resulting solution?
9. What volume of 10M HCl and 3M HCl should be mixed to obtain 1L of 6M HCl solution?
10. A rain drop weighs $0.5 \mu\text{g}$. What is the no. of water molecules in one drop?
11. A sample of drinking water was found to be severely contaminated with CHCl_3 , supposed to be carcinogenic in nature. The level of contamination was 15 ppm by mass. Express this in mass percentage.
12. If the density of CH_3OH is 0.793 Kg L^{-1} , what is its volume needed for making 2.5L of its 0.25 M solution?
13. A welding fuel gas contains C & H only. Burning a small sample of it in O_2 gives 3.38 g of CO_2 , 0.690 g of H_2O & no other products. Calculate the empirical formula.
14. CaCO_3 reacts with aq. HCl to give CaCl_2 & CO_2 according to the following reaction:

$\text{CaCO}_3 (\text{s}) + 2 \text{HCl} (\text{aq}) \rightarrow \text{CaCl}_2 (\text{aq}) + \text{CO}_2 (\text{g}) + \text{H}_2\text{O} (\text{l})$. What mass of CaCO_3 is required to react completely with 25 ml of 0.75 M HCl?

15. The density of 3M solution of NaCl is 1.25 g ml^{-1} . Calculate the molality of the solution.

16. A solution of HNO_3 is 68% by mass having density 1.41 g ml^{-1} . What is the molarity of the solution?

17. Dinitrogen & dihydrogen reacts with each other to produce ammonia according to the following reaction: $\text{N}_2 + 3\text{H}_2 \rightarrow \text{NH}_3$.

(a) Calculate the mass of ammonia produced, if $2.00 \times 10^3 \text{ g}$ dinitrogen reacts with $1.00 \times 10^3 \text{ g}$ dihydrogen.

(b) Find the limiting reagent.

(c) What is the amount of excess reagent remain unreacted?

18. Calculate the molar concentration of pure water at 25°C . The density of water is 1 g ml^{-1} .

Self Learning:- Environmental chemistry

Read and learn all the topics of the chapter

BIOLOGY

Class-XI	
ROLL NO.	Biology Holiday Homework
1-10	Effect of removal of apical buds.
11-20	Effect of gibberellins in seed germination.
21-30	Effect of concentration of antibiotic in the growth of microbes in milk.
31-Last	Effect of light on growth of fungal spore.

SOCIAL SCIENCE

COMPUTER

Q1. Draw a block diagram of the basic components of the computer system. Write short notes on the following components :-

- i) Arithmetic Logic Unit
- ii) Control Unit
- iii) Resistors

Q2. What is the function of memory? Write its measuring units.

Q3. What is IPO (Input Process Output) cycle?

Q4. Differentiate between RAM and ROM.

Q5. Define cache memory.

Q6. Differentiate between impact and non-impact printer.

Q7. Write short notes on :-

- i) Hard Disk (Track, Sector, Cylinder)
- ii) Blu-ray Disk
- iii) Memory card

Q8. What is a communication bus? Write short notes on the following bus:-

- i) Address bus
- ii) Data Bus
- iii) Control Bus

Q9. What is the difference between data and information?

Q10. Differentiate between address bus and data bus.

Q11. What is a software? Differentiate between Application and System software.

Q12. Draw a diagram on classification of computer software.

Q13. What is a Utility software? Write short notes on the following :-

- i) Antivirus software
- ii) Compression utility
- iii) Defragmentation disk

Q14. What is an operating system? Write its advantages.

Q15. What is a language translator? Write short notes on :-

- i) Compiler
- ii) Interpreter
- iii) Assembler

Q16. Differentiate between compiler and interpreter.

Q17. What is linking? Write the basic flow of compiling and program execution.

Q18. What is cloud computing?

Q19. Write short notes on the following types of clouds :-

- i) Public Cloud
- ii) Private Cloud

Q20. What are the benefits of cloud computing?

Q21. What is parallel computing? Write its advantages.

Q22. What is a mobile processor? Write short notes on its components :-

- i) Application processing unit(APU)
- ii) Graphical Processing unit(GPU)
- iii) Communication Processing unit

CLASS- 11 COMMERCE

ACCOUNTS

BST

ECONOMICS

1.Prepare one project from the following topics:-

Opportunity cost;Production possibility curve; Consumer’s equilibrium and Theory of Demand.

2.What do you mean by scarcity?Why does the basic problem of scarcity arise?

3.What is opportunity cost? Illustrate with the help of an example.

4.Illustrate in schedule and diagrams the following two situations:

a .Constant marginal opportunity cost b.decreasing marginal opportunity cost.

5.Apply the concept of PPC to explain the central problem of “what to produce”.

6.Discuss the relationship between total utility and marginal utility through a schedule and diagram.

7.Explain the definition of Statistics both in singular and plural sense.

8. Explain the functions of Statistics.

9.Distinguish the following:-

a. Primary data and Secondary data;

b. Census method and Sample method.

PHYSICAL EDUCATION

CLASS-12 (SCIENCE)

ENGLISH

1. **Make notes from the Chapter, “Lost Spring”- Part:II – ‘I want to become a motor mechanic’, giving a suitable title and appropriate sub-headings.**
2. **The Information Technology has provided new avenues to the students for knowledge, creativity, self-discovery as well as job opportunities at home and abroad. Write an article in 150-200 words showing how information technology has provided the younger generation new opportunities, joys of discovery and thrill of creativity.**

HINDI

SANSKRIT

MATHEMATICS

SCIENCE

PHYSICS

- What is the angle between the directions of electric field at any (i) axial point and (ii) equatorial point due to an electric dipole?
2. What orientation of an electric dipole in a uniform electric field corresponds to its (i) stable and (ii) unstable equilibrium?
 3. The force of attraction between two point charges placed at a distance 'd' apart in a medium is F. What should be the distance apart in the same medium so that the force of attraction between them becomes F/4.
 4. A point charge $+10^{-6}$ C is at a distance 5cm directly above the centre of a square of side 10 cm. What is the magnitude of the electric flux through the square?
 5. What does $q_1 + q_2 = 0$ signify?
 6. Two point charges of $+5 \times 10^{-19}$ C and $+20 \times 10^{-19}$ C are separated by 2m. Find the point on the line joining them at which electric field intensity is zero.
 7. Two charges q and -3q are placed fixed on x-axis separated by a distance 'd' where should a third charge 2q be placed such that it will not experience any force.
 8. a) How can one ignore quantisation of electric charge when dealing with macroscopic or large scale charges?

b) An electrostatic field line is a continuous curve, why is it so?

c) Explain why two field lines never cross each other at any point?
 9. Draw electric field lines for
 - i) Equal and opposite point charges separated by certain distance
 - ii) Two charges separated by certain distance that $[q_1 > q_2]$
 10. Establish the relation between electric field and potential gradient.
 11. Show diagrammatically the orientation of the dipole in the electric field for which the torque is
 - i) maximum
 - ii) half the maximum value
 - iii) Zero
 12. Derive an expression for potential energy of a dipole and discuss stability condition.

 13. Derive an expression for electric field at a point
 - i) on the axis of dipole and
 - ii) on the equatorial line of dipole
 14. a) state the theorem which relates total charge enclosed within a closed surface and the electric flux passing through it. Prove it for single point charge.

- b) Using Gauss theorem show mathematically that for any point outside the shell, the field due to a uniformly charged spherical shell is the same as if the entire charge of the shell is concentrated at the centre. Why do you expect the field inside the shell to be zero.
- c) Draw a graph showing the variation of electric field with r , for $r > R$ and $r < R$.
15. Using Gauss theorem find mathematically an expression for electric field intensity of an infinitely long straight uniformly charged wire.
16. A parallel plate capacitor is connected to a battery. Now the battery is disconnected and a slab of dielectric constant K is introduced in between the plates of the capacitor. State with reason whether energy stored in the capacitor after the introduction of the dielectric slab increases or decreases.
17. Deduce an expression for electric potential due to an electric dipole at any point on its axis?
18. LEARN the following:
- i) Learn Electromagnetic wave – spectrum under heading
 - (a) wavelength (b) frequency (c) production and source (d) use and application.
 - ii) Characteristics of electromagnetic waves .

ASSIGNMENT GIVEN UNDER MUST BE SUBMITTED BY THE STUDENTS STRICTLY BEFORE 24/06/2019

CHEMISTRY

1. Account for the following:

(a) Osmotic pressure method is preferred over other method based on colligative properties for determination of molecular mass of proteins.

(b) Scuba divers use cylinders filled with air diluted with helium.

2. A 5% solution by mass of cane sugar in water has freezing point of 271 K. Calculate the freezing point of 5% solution of glucose in water if freezing point of pure water is 273.15 K. K_f for water is 1.86 K Kg Mol⁻¹ (C=12, H=1, O=16)

3. Determine the osmotic pressure of the solution prepared by dissolving 25 mg of K_2SO_4 in 2L of water at 25°C, assuming that it is completely dissociated.

4. The vapour pressure of pure water at 298 K is 23.8 mm Hg. 50 g of urea (NH_2CONH_2) is dissolved in 850 g of water. Calculate the vapour pressure of water for this solution & its relative lowering.

5. Osmotic pressure of a solution containing 7 g of protein per 100 ml of a solution is 25 mm at 37°C. Calculate the molar mass of the protein.

6. 2 g benzoic acid dissolved in 25 g benzene shows a depression of 1.62 K. K_f for water is $1.86 \text{ K Kg Mol}^{-1}$. What is the percentage of association of acid?
 7. Calculate the boiling point of the solution contains 18 g of a non volatile & non electrolyte solute dissolved in 90 g of benzene. The boiling point of pure benzene is 353.23K . K_b for benzene is $2.53 \text{ K Kg Mol}^{-1}$ & molar mass of the solute is 58 g mol^{-1} .
 8. 1.0 molal solution of trichloro acetic acid is heated up to its normal boiling point. If its boiling point is 100.18°C , what is the vant Hoff factor. (K_b for water is $0.512 \text{ K Kg Mol}^{-1}$)
9. Calculate the mass of ascorbic acid ($\text{C}_6\text{H}_8\text{O}_6$) to be dissolved in 75g of acetic acid to lower its melting point by 1.5 C . $k_f = 3.9 \text{ K kg mol}^{-1}$
10. Calculate the amount of benzoic acid ($M=122$) required to prepare 250ml of 0.15M solution in methanol.
11. Ethylene glycol (molar mass = 62 g mol^{-1}) is a common automobile antifreeze. Calculate the freezing point of a solution containing 24.8g of this substance in 1000 g of water.

Given : K_f for water = 1.86 K kg/mol

SELF LEARNING:

General Principles and Processes of Isolation of Elements

1. Describe the Principle involved in each of the following processes of Metallurgy:
 - (a) **Froth flotation method used for concentration of ore**
 - (b) Leaching (preparation) of pure alumina from bauxite ore
 - (c) **Leaching (Recovery) of Silver/Gold from Silver/Gold Ore.**
2. Giving examples differentiate between **Calcination and Roasting**.
3. What is **Pyrometallurgy**?
4. An ore sample of galena (PbS) is contaminated with zinc blende (ZnS). Name one Chemical which can be used to concentrate galena selectively by froth floatation method.
5. a) What is **the role of limestone in the extraction of iron**?
 b) Write a non exothermic reaction taking place in Blast furnace during the extraction of iron?
 c) Which type of iron is obtained from Blast furnace during the extraction of iron?
6. a) What is the role of cryolite in the metallurgy of aluminium?
 b) What is the role of the graphite rod in the metallurgy of aluminium?
 c) Why Graphite is used as an anode but not diamond.
7. a) Explain the Extraction of copper from cuprous oxide with chemical reactions
 b) State the **role of silica in the metallurgy of copper**.
8. Describe the Principle involved in each of the following processes:

a) Liquation	b) Distillation
c) Electrolytic refining	d) Zone refining
e) Vapour phase refining	f) Mond process for refining Nickel
g) Van arkel method for refining zirconium	h) Van arkel method for refining Titanium
i) Chromatography	j) Column Chromatography
8. Which method is used for refining Zr and Ti? Explain with equation.
9. Name the common elements present in the anode mud in electrolytic refining of copper. Why are they so present?

10. What is flux? What is the role of flux in the metallurgy of Iron & Copper?
11. What principle is involved in choosing a reducing agent for getting the metal from its oxide ore?
12. (a) Out of C and CO, which is a better reducing agent for ZnO and Why.
b) Why is zinc not extracted from zinc oxide through reduction using CO?
13. Consider the metal oxides Al₂O₃ and Fe₂O₃ and justify the choice of reducing agent in each case.
14. Predict conditions under which Al might be expected to reduce MgO.
15. Why the reduction of a metal oxide is easier if the metal formed is in liquid state at the temperature of reduction?

MAKE A PROJECT ON THE FOLLOWING AND SUBMIT ITS REPORT IN FILE :

1. **Study of presence of oxalate ions in guava fruits at different stages of ripening.**
2. **Study of quantity of casein present in different samples of milk.**
3. **Study of the effect of potassium bisulphite as food preservative under different conditions.**
4. **Comparative study of the rate of fermentation of the following materials; wheat flour, gram flour, potato juice, carrot juice**
5. **Study of common food adulterants in fat, oil, butter, sugar, chilli powder, turmeric powder.**
6. **Methods of purification of metals.**
7. **Types of Medicines,**
8. **Polymers,**

BIOLOGY

Class-XII	
ROLL NO.	Project
12-22	Pedigree analysis for ear lobe.
23-33	Effect of gibberellins in seed germination.
34-44	Flower colors in garden.
45-Last	Models of DNA & RNA.

SICIAL SCIENCE

COMPUTER

1. Solve Question No.1 and Question No. 2 of Question paper(Comp sc c++) from AISSE 2009 to AISSE 2018 for the following questions and outputs.
 - a) Random and Randomize outputs.
 - b) Syntax errors
 - c) Identifying Header files
 - d) String outputs
 - e) Class outputs

- f) Constructor /Destructor outputs
- g) Structure Outputs
- h) Function outputs
- i) Control Statement outputs

2 Define a class CARRENTAL in c++ with following description.

PRIVATE MEMBERS:

car_id – long int

cartype,aboutcar – string

rent – float

a member func. assign_rent() - to assign following value of rent as per cartype.

cartype	rent
Small	1000
Van	800
SUV	2500

PUBLIC MEMBER:

A func. getcar() to allow user to enter car_id,aboutcar,cartype and call func. assignrent() .

A func. showcar() used to display all data members.

3. Define a class SUPPLY in c++ with following description.

PRIVATE MEMBERS:

code – int

foodname,sticker,foodtype – string.

A member func. gettype() to assign the following values for type as per the given sticker.

STICKER	FOODTYPE
Green	Vegetarian
Yellow	Contains egg
Red	Non. vegetarian

PUBLIC MEMBERS:

A func. foodin() to allow user to enter code,foodname,sticker,and call func. gettype() to assign respective foodtype.

4. Define a class BUS in c++ with following description.

PRIVATE MEMBERS:

Busnumber – string

from – to store place name of origin

to – to store place name of destination

type – to store bus type such as 'o'

distance – float

share – float

PUBLIC MEMBERS:

A constructor func. to initialize type as 'o' and share as Rs 500.

A func. calcfare() to calculate fare as per following criteria .

type	fare
'o'	15 * distance
'E'	20 * distance
'l'	25 * distance

A func. allocate() to allow user to enter values for busnumber,from,to,type and distance also this func. call calcfare() to calculate fare.

A func. show() to display all data members.

5. Define a class CABS in c++ with following decription.

PRIVATE MEMBERS:

Cno. – cab number

Type – to store a character 'A' , 'B' , 'C' as city type.

Pkm–per kilometer charges

Dist – to store distance in km

PUBLIC MEMBERS:

A constructor func. to initialize type as 'A' and Cno. as '1111'

A func. charges() to assign Pkm as per following table.

type	Pkm
'A'	25
'B'	20
'C'	15

A func. register() to allow user to enter the values for Cno. and type also this func. should call acharges to assign Pkm.

A func. show_cab() to allow user to enter distance and display Cno.,type,Pkm,Pkm*distance and amount as string.

6. Define a class CONTEST in c++ with following definition.

PRIVATE MEMBERS:

Event no. ,score – int
Description – char [30]
Qualified – char

PUBLIC MEMBERS:

A constructor to assign initial values of even numbers as '11' description as 'school' , scores as '100' , qualified as 'n'.

Input() – to take input for event number ,description and score.

Award(int cut off score) – to assign qualified as 'y' if score is more than cutoff score i.e passed as argument of func. else assign qualified as 'n'.

Display() – all datamembers.

7. Define a class GARMENTS in c++ with following definition.

PRIVATE MEMBERS:

g.code ,g.type ,g.fabric – string

g.size – int

g.price – float

PUBLIC MEMBERS:

A func. Assign which calculate the assign the g.price as follows.

G.fabric-“cotton”

g.type	g.price
Trouser	2300
Shirt	2500

G.fabric-“silk”

g.type	g.price
Trouser	4000
Shirt	3000

For g.fabric other than this two g.price for trouser is 1200 and shirt is 800.

PUBLIC MEMBERS:

A constructor to assign initial values of g.code ,g.type and g.fabric with word “not allotted” and g.price and g.size as 0.

A func. Input() the value for all data members .

A func. Display() to display all data members.

8. Define a class STUDENTS in c++.

PRIVATE MEMBERS:

Name – 50 char

Address – 50 char

Basic ,D.A – (70% of basic)

HRA – (20% of basic)

Annual salary ,I.tax ,net salary – float

PUBLIC MEMBERS:

read-data() – input_name , address , basic from user.

Calculate() – netsalary , annual and decides I.tax according to data.

annual	I.tax
0 - 5	10%
5 – 8	20%
8 – infinity	30%

Display() – all data members.

WAP to find annual salary and I.tax of an employ.

WAP to find annual salary and I.tax of 'n' number of employ.

CLASS- 12 COMMERCE

ACCOUNTS

BST

PHYSICAL EDUCATION

ECONOMICS

- (1) Explain the concept of circular flow of income:-
- a> in 2 sector economy
 - b> in 3 sector economy
 - c> in 4 sector economy
- (2) Explain the following aggregate related to national income and show there interrelationship.
- a> GDP_{MP}
 - b> NDP_{MP}
 - c> GNP_{MP}
 - d> NNP_{MP}
 - e> GDP_{FC}
 - f> NDP_{FC}
 - g> GNP_{FC}
 - h> NNP_{FC}
- (3) Mention the various steps of value added method of measuring National Income.

Indian Economics

- (1) Briefly discuss the state of infrastructural facilities during the British period.
- (2) Write a short note on drain of India's wealth during the British rule.
- (3) Why and how was private sector regulated under the IPR1956.

Project Work

Topics: -

1. Air Pollution,
2. Mid day mill,
3. AMUL,
4. Global warming

Prepare on any of the above topics.