## SUBJECT-ENGLISH

1. Fill in the blanks with appropriate determiners.
   a) ……………books are missing from the library?
   b) She has not solved …………..sums.
   c) This book is mine but…………is yours.
   d) ……..boys have done their work.
   e) He did not make…………progress.
   f) He has forgotten………….of the details.
   g) The District Magistrate visited…………..flood affected area.
   h) ………….villa is this?
   i) He is the ………….boy who has joined this gym.
   j) I met her…………week.

2. Fill in the blanks with suitable articles.
   a) Copper is………..useful metal.
   b) This is ………best book from Elementary Chemistry.
   c) Honest men speak …………..truth.
   d) It is ……….one-rupee note.
   e) ………….dinner we had at the Tourist Hotel was very nice.
   f) I went to………….hospital to see my uncle.
   g) Mr. Roy was…………great orator and statesman.
   h) …………..Secretary and Treasurer is absent.
   i) She looked at ……..ceiling.
   j) He is ………European.

3. What difference do you see between the schools of the future and that of the past?
4. What do you think happens in the end of the story "The Lost child"? Does the child find his parents?
5. Write an article in 100-150 words on "The Suffering of Indian Women" . You are Suresh/Shivani.
6. Write an article in 100-150 words on "Climate Change".
7. Write an article in 100-150 words on "Vehicular Pollution".

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## SUBJECT-HINDI

निम्नलिखित प्रश्नों के उत्तर दें :–

1 प्रेमचंद की प्रमुख रचनाओं का उल्लेख करते हुए साहित्यिक परिचय दीजिए। (असाइनमेंट शीट में सचित्र लिखिए)
2 धर्म और राजनीति पर एक निबंध लिखिए। (300 शब्दों में)
3 पर्यावरण असंतुलन पर अपना विचार व्यक्त करते हुए संपादक के नाम पत्र लिखिए।
4 समास पाठ पर आधारित प्रश्नों के उत्तर लिखिए।
5 अनुप्रास, यमक, श्लेष, उपमा, रूपक, उत्प्रेक्षा, अतिशयोक्ति एवं मानवीकरण अलंकारों के दो–दो उदाहरण लिखिए।

Note:- For Hindi/Sanskrit download font-' Kruti Dev 010'.

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## SUBJECT-MATHEMATICS

1. Express as fraction in simplest form  (a) $0.2\overline{45}$    (b) $3.\overline{14}$

2. Represent on a number line    (a) $\sqrt{5}$    (b) $\sqrt{4.3}$

3. If a and b are rational numbers and $\frac{\sqrt{11} - \sqrt{7}}{\sqrt{11}+ \sqrt{7}} = a - b\sqrt{77}$, find the value of a and b

4. If $x = 3 + \sqrt{8}$, find $x^2 + \frac{1}{x^2}$

5. If the polynomials $2x^3 + ax^2 + 3x - 5$ $and$ $x^3 + x^2 - 2x + a$ leave the same remainder when divided by x – 2,. Find the value of a . Also find the remainder in each case

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

7. Simplify: $(\frac{\sqrt{3}+ \sqrt{2}}{\sqrt{3}- \sqrt{2}} + \frac{\sqrt{3}- \sqrt{2}}{\sqrt{3}+ \sqrt{2}})$

8. Evaluate using identities   (a) $(106)^3$    (b) $(998)^3$

9. Factorize :
   (a) $x^2 + \frac{1}{x^2} + 2 - 2x - \frac{2}{x}$
   (b) $x^2 - 1 - 2a - a^2$

(c) $2x^2 - \frac{5x}{6} + \frac{1}{12}$

(d) $2x^2 + y^2 + 8z^2 - 2\sqrt{2}xy + 4\sqrt{2}yz - 8xz$

(e) $a^3 - 2\sqrt{2}b^3$

10. Show that $\frac{1}{(3-\sqrt{8})} - (\frac{1}{\sqrt{8}-\sqrt{7}}) + \frac{1}{(\sqrt{7}-\sqrt{6})} - \frac{1}{(\sqrt{6}-\sqrt{5})} + \frac{1}{(\sqrt{5}-2)} = 5$

## NUMBER SYSTEMS

11. Exercise – 1.1 – Q.1 to Q.4.
12. Exercise – 1.2 – Q.2 to Q.4.
13. Exercise – 1.3 – Q.1 to Q.9.
14. Exercise – 1.5 – Q.1 to Q.5.
15. Exercise – 1.6 – Q.1 to Q.3.

## POLYNOMIALS

16. Exercise – 2.1 – Q.1 to Q.5.
17. Exercise – 2.2 – Q.1 to Q.4.
18. Exercise – 2.3 – Q.1 to Q.3.
19. Exercise – 2.4 – Q.1 to Q.5.
20. Exercise – 2.5 – Q.1 to Q.16.

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# SUBJECT-SCIENCE
## PHYSICS

1. When will you say a body is in-
   (a) Uniform acceleration       (b) Non-Uniform acceleration
2. An athlete completes two and a half round of a circular track of radius 35m. What will be the displacement and distance covered by the athlete?
3. A car covers first 50 km at the speed of 45 km/h and the next 50 km at the speed of 90 km/h. Find the average speed of the car in km/h.
4. State the equations of motion for-
   (a) Velocity-time relation       (b) Position-time relation       (c) Position-velocity relation
5. Brakes applied to a car produce an acceleration of 6 m/s$^2$ in opposite direction to motion. If the car takes 2s to stop after applying the brakes, then calculate the distance it travels during this time.
6. A bus decreases its velocity from 90 km/h to 54 km/h in 10s. Find the acceleration of the bus.
7. What is the nature of distance-time graph for uniform and non-uniform motion of an object?
8. A ball is gently dropped from a height of 20m. If its velocity increases at the rate of 10 m/s$^2$, then with what velocity will it strike the ground?
9. The following table gives the data about the motion of a car:-

| Time (h) | 11:00 | 11:30 | 12:00 | 12:30 | 13:00 |
|---|---|---|---|---|---|
| Distance (km) | 0 | 20 | 30 | 65 | 100 |

   (a) Find the speed of the car between 12:00h and 12:30h.
   (b) What is the average speed of the car for the whole journey.
   (c) Is the car's motion an example of uniform motion? Justify.
10. A train accelerates uniformly from 36 km/h to m72 km/h in 20s. Find the distance travelled?
11. Derive the equation of motion-       $s = ut + \frac{1}{2}at^2$
12. A motorboat starting from rest on a lake accelerates in a straight line at a constant rate of 3m/s$^2$ for 8s. How far does the boat travel during this time.

## CHEMISTRY

1. How solids, liquids and gases exhibit the following properties :
   (i) Rigidity (ii) Diffusion (iii) Compressibility
2. When sugar crystals dissolve in water, the level of water does not rise appreciably. Explain why ?
3. Why oxygen is called gas ? Support your answer by giving two reasons .
4. What is the effect of change of pressure on physical state of matter? Explain with an example of a gas.

## BIOLOGY

1. Make a project describing the methods and significance of organic farming.
2. Explain the importance of various cropping patterns in the field of agriculture.
3. What are Manures? Make a note on different types of manures.
4. Why is irrigation system needed in India? Explain in brief about Drip irrigation and Sprinkler irrigation system.

# SUBJECT-SOCIAL SCIENCE

## HISTORY

1. Differentiate between Active and Passive Citizens.
2. Why was Louis XVI forced to increase taxes in France?
3. Explain the changes brought by the National Assembly in the year 1789.
4. Write a short note on Louis XVI.
5. Which group emerged during the 18<sup>th</sup> century? What role did they play in French society?

## POLITICAL SCIENCE

1. What do you mean by Democracy?
2. Give some examples of democratic and non-democratic countries.
3. Differentiate between democratic and non-democratic countries.
4. Explain the role of Institutional Revolutionary Party (PRI) in the election.
5. "Zimbabwe was not considered a democratic country". Justify the statement.

## GEOGRAPHY

PROJECT WORK- DISASTER MANAGEMENT

1. Introduction on the given topic.
2. Different types of disasters- Flood, Tsunami, Earthquake etc.
3. Causes of disaster.
4. Preventive measures.
5. Mitigation.
6. Conclusion.

## ECONOMICS

1. 'Most of our villages have good infrastructure'. Justify.
2. What is meant by working capital? How is it different from fixed capital?
3. What do you mean by factors of production? What are the four requirements for the production of goods and services?
4. What are the three ways to sustain land?
5. Explain labour and human capital as the requirement for production.

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# SUBJECT-SANSKRIT

1　स्वर्णकाकः पाठतः प्रश्न निर्माणं कुरूत–
2　सोमप्रभम् पाठतः घटनाक्रमं लिखत –
3　स्वर्णकाकः पाठतः प्रश्न 7 पूरयत–
4　संस्कृत व्याकरण पुस्तकात् पत्रं पूरयत (पत्राभ्यास क्र० 1, 2)
5　दीर्घः सन्धि– पंच उदाहरणानि लिखत –
6　गुण सन्धिः– पंच उदाहरणानि लिखत –
7　वृद्धिः सन्धिः –पंच उदाहरणानि लिखत –
8　वृक्ष–शब्द रूपाणि लिखित्वा स्मरन्तु –
9　साधु–शब्द रूपाणि लिखित्वा स्मरन्तु –
10　अस् धातोः रूपाणि पंच लकारेषु लिखत –
11　स्था धातोः रूपाणि पंच लकारेषु लिखत –
12　दृश् धातोः रूपाणि पंच लकारेषु लिखत –

### परियोजना कार्यम् सचित्रेण वर्णयतु –

13　गुरूकुलः
14　शस्त्राभ्यासः,
15　आदर्शः परिवारः

Note:- For Hindi/Sanskrit download font-' Kruti Dev 010'.

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# SUBJECT-INFORMATION TECHNOLOGY

1. On a chart paper draw the different components of computer and write about them.
2. How can you improve your personality and confidence and what are the major management skills that a person should have?
3. Define different types of components of computer?
4. What do you mean by Communication Skills? Explain their types with suitable examples .
5. Revise / update your notes.
6. Create a PowerPoint Presentation on the topic-ICT.

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