Class : X

Subject: English (184)

1. Relate an incident when a small insignificant event uplifted your mood from sadness to happiness. Support your answer with a creative image and colour it.
2. Prepare a creative book mark on "Save Tiger" and attach it to your assignment copy.
3. Describe how Tricki spent his days in the surgery in the form of a flowchart and colour it.
4. Imagine yourself as Lencho and write a letter to God expressing your wish. Design a creative hand made envelope, insert the letter in it and stick it in your assignment copy.

Subject: Hindi (002)

1. अपने घर के पुराने फर्नीचर की बिक्री के लिए लगभग 50 शब्दों में एक विज्ञापन तैयार कीजिए।

   अथवा

   अमृत केश तेल की बिक्री बढ़ाने के लिए एक विज्ञापन तैयार कीजिए।
2. प्रधानाचार्या की ओर से गांधी जयंती के उपलक्ष्य पर शुभकामना संदेश लिखिए।

   अथवा

   प्रधानाचार्या द्वारा बच्चों को पर्यावरण की सुरक्षा पर संदेश लिखें।

Subject: Sanskrit (122)

1. वाक्यानुवादं कुरुत।

   क) तुम सब क्या कर रहे हो?

   ख) मैं विद्यालय जाऊँगा।

   ग) वे देवालय गए।

   घ) हम सब संस्कृत पढते हैं।

   ङ) घर के निकट एक मन्दिर है।
2. मञ्जूषायां प्रदत्तशब्दानां सहायतया 'मम प्रियः शिक्षकः' इति विषये पञ्च वाक्यानि लिखत।

   (अध्यक्षः, परीक्षापरिणामः, मृदुभाषी, संस्कृतभाषायाः, वक्ता, त्यागशीलः, विलम्बेन, आदर्शवान्, शतप्रतिशतम्, पाठयति)
3. परियोजना–कार्यम्

   शुद्ध – अशुद्ध पर्यावरणस्य चित्रंनिर्माणं कृत्वा पर्यावरण संबंधित श्लोकं लिखत।

   (परियोजना–कार्यम् A4 पेपर में करें।)

Subject: Mathematics (041)

1. Write general form for a pair of Linear equations in two variables. Also, write all three possibilities for the solution.
2. Complete the table:

For the system of two linear equations $ax+by+c=0$; $px+qy+r=0$			
Sl. No.	**Compare the ratio**	**Graphical representations**	**Algebraic interpretation**
1	(a/p) not equal to (b/q)	?	Exactly one solution (unique)
2	?	Coincident lines (single)	?
3	?	Parallel lines	No solution

3. One says, "Give me a hundred rupee, friend! I shall then become twice as rich as you". The other replies, "If you give me ten rupee. I shall be six times as rich as you", Tell me what is the amount of their (respective capital)?

4. Book – Activity Plus
   Activity No - 1.3
   Activity Name – Pair of Linear Equations in Two Variables.(Do it in your book)

Subject: Science (086)

Physics

1. Draw the ray diagram in each case to show the position and nature of the image formed when the object is placed:
   (i)   At the centre of curvature of a concave mirror
   (ii) Between the pole P and focus F of a concave mirror
   (iii) In front of a convex mirror
   (iv) at 2F of a convex lens
   (v)   In front of a concave lens
2. A concave mirror produces three times magnified (enlarged) real image of an object placed at 10cm in front of it. Where is the image located?
3. A convex lens forms a real and inverted image of a needle at a distance of 50 cm from it. Where is the needle placed in front of the convex lens if the image is equal to the size of the object? Also find the power of the lens.
4. We wish to obtain an erect image of an object, using a concave minor of focal length 15 cm. What should be the range of distance of the object from the mirror? What is the nature of the image? Is the image larger or smaller than the object? Draw a ray diagram to show the image formation in this case.
5. A concave lens of focal length 15 cm forms an image 10 cm from the lens. How far is the object placed from the lens? Draw the ray diagram.

Chemistry

1. Explain different types of Chemical reactions with suitable example.
2. What do you mean by Redox reaction. With three suitable example show which undergo **Oxidation, Reduction.** Which of them is **Oxidising agent** and **Reducing agent?** Observe in your surrounding and give two examples Oxidation reaction.
3. Explain Electrolysis of water with suitable diagram?
4. Explain the different types of Acid.
5. What is pH of any substance? Write the importance of pH in our everyday life.

Biology

1. Draw a labelled diagram of human digestive system and describe the location of secretion of digestive enzymes for proteins.
2. Trace the pathways of breakdown of glucose during respiration.

Subject: Social Science (087)

History

1) How did Gandhiji propose to launch the Non-Cooperation Movement? Why were many within the Congress concerned about the proposal? (3 points)
2) What was the Rowlatt Act? Discuss the reaction of the Indians towards the Act (5 points)
3) i. Draw the logo of Azadi ka Amrit Mahotsav.
   ii. Mention any five activities around India @ 75. When did the celebration begin and when will it end?

Civics

1) Compare the ways in which the Belgium and Sri Lanka have dealt with cultural diversity. (5 points)
2) Name the seven women who have been recently honoured for their extraordinary achievements as part of India @ 75 celebrations. Mention their achievement also, which have been documented in collaboration with Netflix and will be screened as short films.

Geography

1) Give a brief description of Soil distribution/Soil type in India with the help of pie chart. (Show in percentage).
2) Why there is a need to conserve soil and explain different soil conservation methods adopted in India?

Economics

1) What do you mean by Human Development Index? What are its three components? (3 points)
2) State with the help of diagram the intermediate goods required for production of bread. Why are they not included in the calculation of national income?

Subject: Artificial Intelligence: (417)

a. Write the following as Python expression:

   i. $a^2 + b^2$

   ii. $A = \pi r^2$

   iii. $x = \dfrac{-b + \sqrt{b^2 - 4ac}}{2a}$

   iv. $c^2 = a^2 + b^2$

b. Write the output of the following expressions:

   i. x = 10
   y = 20
   print(x is not y)

   ii. print(2 * 3 ** 4 * 5)

   iii. a = 0
   b = 1
   print(a != 0 and (b / a) > 0)

   iv. a = 4.5
   b = 2
   print (a//b)

```
v   a = True
    b = False
    c = False
    if not a or b:
            print (1)
    elif not a or not b and c:
            print (2)
    elif not a or b or not b and a:
            print (3)
    else:
            print (4)
```

c. Write a python program to:
   i. To calculate and print for simple interest and compound interest
   ii. To input the year and check it is leap year or not.

Subject: General Knowledge

Write 10 headlines from the English news paper everyday in GK copy.

Subject: Life Skills

Holidays are not only to rejoice and refresh ourselves but also time to spend quality time with our friends and relatives. So, set your goals how will you make them happy and care for them.

1. Take some pictures while doing your activities.
2. Paste those pictures on A-4 size paper and also write about their feelings during activities.
3. Insert those pages in the folder and bring to school after summer vacation.

Note: All assignments to be done in respective subject assignment copies.

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