

DAV PUBLIC SCHOOL, SECL BISHRAMPUR
SESSION: 2026-27
SUMMER VACATION HOME WORK
CLASS-X

ENGLISH

ART INTEGRATED PROJECT

Make a Power Point Presentation to do a comparative study between the states of Chhattisgarh and Kerala based on the inputs given.

(You can refer the chapter "Two Gentlemen of Verona" by A.J.Cronin.)

1. Index
2. Acknowledgement
3. Introduction
4. Comparative study based on the followings:
 - a. History of the state
 - b. Attire/ Dress
 - c. Food
 - d. Important places of Tourism
5. Conclusion
6. Bibliography.
 - i. **Note: It is a group work consisting of four students in each group.**
 - ii. **The project to be submitted through the whatsapp no of the concerned subject teacher**
 - iii. **The presentation will be accompanied by charts, graphs, images, sketches, short video etc.**

LITERATURE PART

(ANSWERS TO BE WRITTEN IN LITERATURE COPY)

QUESTION: RTC (REFERENCE TO CONTEXT) QUESTIONS. (1 MARK EACH)

"They were childish enough, and in many ways quite artless. Jacopo was lively as a squirrel. Nicola's smile was steady and engaging. Yet in both these boyish faces there was a seriousness which was far beyond their years."

Questions

1. What does the author mean by describing the boys as "artless"?
 2. Why was there a "seriousness" on their faces that was "far beyond their years"?
 3. How does the contrast between Jacopo's "lively" nature and Nicola's "steady" smile reflect their individual roles in their struggle?
 4. Based on this extract, what is the initial impression the narrator forms of the two brothers?
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Extract 2

"I could not bear to intrude upon this happy family party. But at the foot of the staircase I drew up and asked the nurse to tell me all she knew about these boys."

Questions (1 Mark Each):

1. Why does the narrator refer to the scene as a "happy family party" despite the tragic circumstances?
2. What motivated the narrator to talk to the nurse instead of confronting the boys directly?
3. What does this extract suggest about the narrator's personality?
4. How does this moment serve as the "climax" of the narrator's understanding of the two gentlemen?

2 MARKS QUESTIONS (40-50 WORDS)

1. Why did the narrator's driver, Luigi, shrug his shoulders when the boys were first encountered?
2. How does the title "Two Gentlemen of Verona" redefine the traditional concept of a 'gentleman'?
3. Why did the boys keep their sister Lucia's illness a secret from the narrator?
4. What does the narrator mean when he says the boys were "childish enough, and in many ways quite artless"?
5. How did the war affect the lives of Nicola and Jacopo?
6. Analyze the narrator's decision not to enter the room where the boys were visiting Lucia.
7. "We are not complaining, sir." What does this statement reveal about the boys' attitude toward life?
8. Why was the narrator "deeply touched" by what he saw through the glass partition at the hospital?
9. How does the setting of Verona contribute to the themes of the story?

10. What is the "new hope for humanity" that the narrator finds in the two boys?

8 MARKS QUESTION (150 WORDS)

Question: "War may destroy homes and lives, but it cannot crush the human spirit." In the light of A.J. Cronin's *Two Gentlemen of Verona*, discuss how Nicola and Jacopo exemplify resilience and nobility. How does their story serve as a beacon of hope for a world recovering from conflict?

SUBJECT : MATHEMATICS

ASSERTION-REASON QUESTIONS

1. **Assertion (A):** 6^n ends with the digit zero where n is a natural number.

Reason (R): Any number ends with digit zero, if its prime factor is of the form $2^m \times 5^n$, where m, n are natural numbers.

- a) Both A and R are true and R is the correct explanation for A .
- b) Both A and R are true and R is not correct explanation for A.
- c) A is true but R is false.
- d) R is true but A is false.

2. **Assertion (A):** For all real values of c , the pair of linear equations $x - 2y = 8$ and $5x - 10y = c$ have a unique solution.

Reason (R): Two lines are given to be parallel. The equation of one of the lines is $4x + 3y = 14$, $12x + 9y = 5$.

- a) Both A and R are true and R is the correct explanation for A .
- b) Both A and R are true and R is not correct explanation for A.
- c) A is true but R is false.
- d) R is true but A is false.

3. **Assertion (A):** If the equations $3x - y + 8 = 0$ and $6x - ky = -16$ represent coincident lines, then the value of $k = 2$.

Reason (R): If the lines given by $3x + 2ky = 2$ and $2x + 5y + 1 = 0$ are parallel, then the value of k is 15.

- a) Both A and R are true and R is the correct explanation for A .
- b) Both A and R are true and R is not correct explanation for A.
- c) A is true but R is false.
- d) R is true but A is false.

2. **Assertion (A):** If HCF of 510 and 92 is 2, then the LCM of 510 & 92 is 32460

Reason (R): as $\text{HCF}(a,b) \times \text{LCM}(a,b) = a \times b$

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct

explanation of Assertion (A).

(c) Assertion (A) is true but Reason (R) is false.

(d) Assertion (A) is false but Reason (R) is true

CASE STUDY BASED QUESTIONS

1. Radhika and her younger brother Ramesh went to the market to buy some stationary items. Radhika spent Rs.45 for 2 pens and 5 pencils whereas Ramesh spent Rs.60 for 5 pens and 2 pencils.

a). If the cost of 1 pen is Rs.x, and the cost of 1 pencil is Rs.y. Represent the above situation in linear equations form.

b) Write whether the above pair of linear equations intersects at a point or are parallel or coincide.

c) Find the cost of one pen and one pencil. OR

Represent pair of linear equation on the graph paper.

VERY SHORT ANSWER TYPE QUESTIONS

1. Let a and b be two positive integers such that $a = p^3q^4$ and $b = p^2q^3$, where p and q are prime numbers. If $HCF(a,b) = p^m q^n$ and $LCM(a,b) = p^r q^s$, then $(m+n)(r+s) =$

(a) 15 (b) 30 (c) 35 (d) 72

2. If the system of equations $3x+y=1$ and $(2k-1)x+(k-1)y=2k+1$ is inconsistent, then $k =$

(a) -1 (b) 0 (c) 1 (d)

3. Express 256 as the product of primes.

4. Given that HCF (96, 404) is 4, find the LCM (96, 404).

5. Explain why $7 \times 11 \times 15 + 15$ is a composite number?

6. Can the number 4^n , n being a natural number, end with digit 0? Give reason.

7. Prove that $5 + 2\sqrt{3}$ is an irrational number.

8. For what values of k will the following pair of linear equations have infinitely many solutions?

$$kx + 3y - (k - 3) = 0$$

$$12x + ky - k = 0$$

9. Find the value of k for which the following systems of equations has no solution:

$kx + 3y = 3$ and $12x + ky = 6$. write whether pair of linear equations are consistent or inconsistent.

10. Solve for x and y:

$$2x + 3y = 12 \quad \text{and} \quad x - y = 1, \text{ find } m \text{ if } y = m x + 5$$

SHORT ANSWER TYPE QUESTIONS

1. If $49x + 51y = 499$, $51x + 49y = 501$, then find the value of x and y.
2. Solve for x and y: (a) $32x + 33y = 34$ and $33x + 32y = 31$.
(b) $ax - by - a + b = 0$ and $b x - ay - a - b = 0$.
3. For what value of k, does the system of equations $2x + 3y = 7$ and $(k-1)x + (k+2)y = 3k$ have infinite number of solutions?

LONG ANSWER TYPE QUESTIONS

1. A train covered a certain distance at a uniform speed. If the train would have been 6 km/h faster, it would have taken 4 hours less than the scheduled time. And, if the train were slower by 6 km/hr ; it would have taken 6 hours more than the scheduled time. Find the length of the journey.
2. Anuj had some chocolates, and he divided them into two lots A and B. He sold the first lot at the rate of ₹2 for 3 chocolates and the second lot at the rate of ₹1 per chocolate, and got a total of ₹400. If he had sold the first lot at the rate of ₹1 per chocolate, and the second lot at the rate of ₹4 for 5 chocolates, his total collection would have been ₹460. Find the total number of chocolates he had.
3. A fraction becomes $\frac{9}{11}$, if 2 is added to both the numerator and the denominator. If 3 is added to both the numerator and the denominator, it becomes $\frac{5}{6}$. Find the fraction.
4. Solve graphically the pair of linear equations: $3x - 4y + 3 = 0$ and $3x + 4y - 21 = 0$. Find the coordinates of the triangular region formed by these lines and x-axis. Also, calculate the area of this triangle.
5. The sum of the digits of two digit number is 9. If 27 is subtracted from the number, its digits are interchanged. Find the numbers.
6. Places A and B are 80 km apart from each other on a highway. A car start from A and another from B at the same time. If they move in same direction they meet in 8 hours and if they move towards each other, they meet in 1 hour 20 minutes. Find the speed of cars.
7. Five years ago, Amit was thrice as old as Baljeet. Ten years hence, Amit shall be twice as old as Baljeet. What is their present age.
8. The sum of a two digit number and the number obtained by reversing the digits is 66. If the digits of the number differ by 2, find the number. How many such numbers are there?
9. Write the example of any 3 pair of linear equation in two variable in following cases:-
(a) Intersecting lines (b) Parallel lines (c) Coincident lines
Also solve them graphically.

ART INTEGRATED PROJECT

10. Prepare a Art Integrated project file on the Topic 'Bridging the culture of Chhattisgarh and Kerala state'.

Project file on the above mentioned topic must be prepared keeping the following point order:-

- (a) Title page (topic of the project).
- (b) Cover page (essence of the project).
- (c) Table of contents (index).
- (d) Introduction of the topic.
- (g) Explanation of the topic (Using Geometry, symmetry, statistics and pattern recognition, connecting coastal traditions tribal arts).
- (h) Use Area, perimeter, volume and Mean, Median, Mode.

SUBJECT : SCIENCE

A. PHYSICS

Q1. How does a convex mirror differ from a concave mirror in terms of image size?

Q2 .How would the image formed by a concave mirror change if the focal length is halved? Provide reasoning using the mirror equation.

Q3.A convex mirror is used as a security mirror in a shop. Despite being small, it gives a wide field of view. How does the mirror shape affect the field of vision, and what role does the focal length play?

Choose the correct **Options:**

- (a) Both A and R are true and R is the correct explanation of A
- (b) Both A and R are true but R is not the correct explanation
- (c) A is true but R is false
- (d) A is false but R is true

Q4. Assertion (A): A concave mirror can produce a real image if the object is placed beyond the focal point.

Reason (R): Concave mirrors always form images on the same side as the object.

Q5. Assertion (A): The focal length of a concave mirror is positive.

Reason (R): The focal length of a concave mirror is always negative

Q6.CASE BASED STUDY

Samantha is an engineer working on a project to develop an efficient solar concentrator using spherical mirrors. She decides to test different mirror shapes to maximize the heat concentration at a focal point. She uses a concave spherical mirror with a focal length of 50 cm. During testing, she places a small container of water at the focal point, and she notices that the water heats up rapidly.

Samantha observes that when the mirror is aligned precisely, the sunlight converges at a single point, heating the container. However, when she uses a convex mirror by mistake, the sunlight spreads out, and no heat is generated.

After a week of testing, Samantha also tries different object distances from the mirror. When she places the container slightly beyond the focal point, the heat intensity drops. But when the container is exactly at the focal point, the temperature rises significantly.

Questions:

1. Identify the type of mirror used in Samantha's experiment.
2. Why does the concave mirror focus sunlight to a single point?
3. Why is a convex mirror not suitable for this application?
4. What practical advantages does this type of solar concentrator offer in real-life applications?

Q7. If a convex mirror has a focal length of -15 cm and the object is 20 cm away, what is the magnification, and is the image real or virtual?

B. CHEMISTRY

Tick the correct option-

1. Which of the following is an example of simple displacement-

- (a) electrolysis of water
- (b) burning of methane
- (c) reaction of metal with acid
- (d) reaction of two salt solutions to form precipitate

2. Ruchi took 5 mL of lead nitrate solution in a beaker and added approximately 4 mL of KI solution to it. What would she observe?

- (a) solution turned red
- (b) yellow precipitate was formed
- (c) white precipitate was formed
- (d) the reaction mixture becomes hot

3. On heating lead nitrate in a test tube we observe-

- (a) fumes of yellow colour
- (b) melting of lead nitrate
- (c) formation of black solid
- (d) fumes of brown colour

Subjective type questions-

4. Why is respiration considered an exothermic reaction?
5. What happens when ferrous sulphate is heated. Write balanced chemical reaction along with the two observations.
6. Write balanced chemical reaction taking place when-

- (i) iron reacts with steam
- (ii) magnesium reacts with dilute hydrochloric acid
- (iii) copper is heated in air

INVESTIGATORY PROJECT-

Electrolysis of water

ART INTEGRATED PROJECT-

As instructed in the class.

Biology

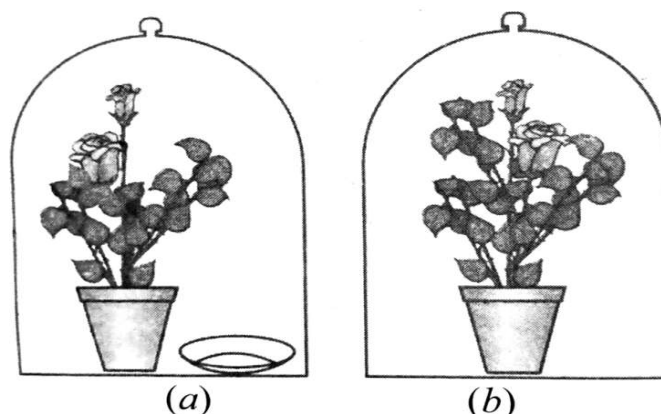
- I. Prepare an Investigatory Project on the topic: "An analysis of different modes of heterotrophic nutrition."
- II. Prepare an art integrated project on the topics allotted in the class.
- III. Solve the questions given below:
 1. Is 'nutrition' a necessity for an organism? Discuss.
 2. Leaves of a healthy plotted plant were coated with vaseline will this plant remain healthy for long? Give reasons for your answer.
 3. What is the role of HCl in protein digestion?
 4. Why is the inner wall of alimentary canal not digested although the digestive enzyme can digest all the materials that make cells?

HOTS

5. In each of the following situations what happens to the rate of photosynthesis?
 - (a) Cloudy days
 - (b) No rainfall in the area
 - (c) Stomata gets blocked due to dust.

CASE BASED QUESTION

6. Given below is the experimental set-up to establish that one of the atmospheric gases is essential for photosynthesis in plants.



- (a) Name the atmospheric gas which is essential for photosynthesis.
- (b) What is kept in watch-glass in figure 'a' and why?
- (c) Write the balanced chemical equation for the process of photosynthesis.
- (d) When do the desert plants take up carbon dioxide and perform photosynthesis?

7. Select the correct option:

- a. Both A and R are true and R is the correct explanation of A.
- b. Both A and R are true and R is not the correct explanation of A.
- c. A is true but R is false.
- d. A is False but R is true.

Assertion: The digested food which is not used by our body immediately is stored in the liver in the form of a carbohydrate starch.

Reason: The stored food can be used as a source of energy by the body as and when required.

SUBJECT : SOCIAL SCIENCE

1. Prepare a project on any one the following topics and submit it on 25.06.2025
Project should be in the form of PPT (Power Point Presentation) by group of two students
each group Maximum 15 slides are required for the project.

Consumer Rights (Economics) Refer Economics NCERT Book Chapter 5

- 1. Role of Consumer in Market
- 2. Consumer Movement
- 3. Consumer Rights with Photographs/pictures

OR

Any one Social Issues (History)

- 2. Prepare the art integrated project based on comparison of Kerala and Chhattisgarh.
This project also prepare in the form of PPT. (Two students per group)
Topic –Compare Kerala & Chhattisgarh on following topic
 - 1. Location of these states on Map of India.
 - 2. Climate of Both states
 - 3. Agricultural production of Both States
 - 4. Population Composition (Literacy Rate, Gender Ratio, Occupational Structure)
 - 5. Major Rivers of Both States

MCQ/ ASSERTION REASON QUESTIONS/ COMPETENCY BASED QUESTIONS.

- 1. A country having high standard of living and a better environment in terms of health and safety is known as.....
Options A. Under developed B. Developing C. Developed D. Poor

2 The two statements are given below as Assertion (A) and Reason (R). Read the statements and choose the correct option:

Assertion (A): The literacy rate of women in India is lower than that of men. Reason

(R): There is gender division of labour in society.

Option: A. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

B. Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A). C. Assertion (A) is correct but Reason (R) is incorrect.

D. Assertion (A) is incorrect but Reason (R) is correct

3. When was United Kingdom of Great Britain formed?

- A. 1707 B. 1710 C. 1740 D. 1857

4. Which of the following countries was not the representative of the European powers?

- A Britain B Russia C Prussia D Switzerland

5. Identify and mark the incorrect response.

The Napoleonic Code 1

A Did away with all the privileges based on 'birth and established equality.

B Destroyed feudalism in France.

C Formulated codes for the army.

D Ensured right to property for the privileged class.

6. Which one of the following statements is not true of Aristocracy?

A They owned estates in the countryside and also town-houses

B They spoke French for purposes of diplomacy and in high society

C Their families were often connected by ties of marriage

D They often clashed with the ideas of the monarchs

7. Find out from the following, what economic liberalism stood for.

(i) Abolition of state-imposed restrictions on the movement of goods and capital

(ii) End of autocracy and clerical privileges

(iii) Freedom for the individual and equality of all

(iv) Freedom of markets

A (i) and (ii) are correct

B (i) and (iii) are correct

C (ii) and (iv) are correct

D (i) and (iv) are correct

8. A The Congress of Vienna B The Treaty of Constantinople C The Treaty of Geneva D The Treaty of Versailles 6 Which treaty of 1832 recognized Greece as the independent nation.

1 Arrange the following events related to the Formation of Britain as a nation, in chronological order.

- (i) The Act of Union between England and Scotland
- (ii) The English parliament, which had seized power from the monarchy
- (iii) Ireland was forcibly incorporated into the United Kingdom
- (iv) Catholic revolts against British dominance

A iii - i - ii - iv

B i - ii - iii - iv

C iv - i - ii - iii

D ii - i - iv - iii

9. A large part of Balkan region was under the control of:

A Russian empire B Ottoman empire C Germania D Habsburg empire

8 A large number of people were hostile to the Napoleonic code because

A it was not suitable for all.

B it destroyed the special privileges of the rulers.

C administrative changes did not go hand-in-hand with political freedom.

D none of the above.

10. Body Mass Index (BMI) is the proportion of-

A Height & Wealth

B Height & Health

C Height & Literacy

D Height & Weight

11. Which of the following statements is correct about the National development?

Statement (i) : National development refers to the ability of a nation to improve standard of living of its citizens.

Statement(ii) : Standard of living of citizens depends upon only the literacy rate and per capitaincome.

Statement (iii) : It is not always true that countries with higher income are more developed than others with less income.

Statement (iv) : Per capita income criteria takes into account only the economic aspect of life.

A Statements (i) and (ii) are right.

B Statement (i), (iii) and (iv) are right.

C Statement (iii) is right.

D Only statement (iv) is right.

12. Assume there are four families in a country. The average per capita income of these families is ₹6000. If the income of three families is ₹ 4000, ₹ 7000 and ₹ 3000 respectively, what is the income of the fourth family?

A ₹5000

B ₹10000

C ₹7500

D ₹4500

13. Net Attendance Ratio is the total number of children of the age group _____ attending school as a percentage of the total number of children in the same age group.

A 14 and 15 years

B 17 and 18 years

C 9 and 10 years

D 12 and 13 years

14. In the question given below there are two statements marked as Assertion (A) and Reason (R). Read the statements and select the correct

option.

Assertion (A) : Different people have different developmental goals.

Reason (R) : People want freedom, equality, security and respect

A Both A and R are correct and R is the correct explanation of A.

B Both A and R are correct but R is not the correct explanation of A.

C A is correct but R is incorrect.

D A is incorrect but R is correct.

SUBJECT- HINDI

[1] अनुच्छेद लेखन 150 शब्दों में

[i] सौर ऊर्जा - सस्ती और अच्छी

[ii] सड़क सुरक्षा जीवन रक्षा

[III] जल बचाओ, पृथ्वी बचाओ

[2] पत्र लेखन 100 शब्दों में

[I] वास्तविक या काल्पनिक वायुयान यात्रा के आनंद का वर्णन करते हुए अपने मित्र/सखी को एक पत्र लिखिए।

[II] अपने क्षेत्र में पार्क विकसित करने के लिए नगर निगम अधिकारी को पत्र लिखिए।

[3] दिए गए गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दिए गए विकल्पों में से चुनकर लिखिए।

हालदार साहब को हर पंद्रहवें दिन ----- बल्कि उसके भी एक छोटे-से हिस्से के बारे में।

1. हालदार साहब हर पंद्रहवें दिन किस कस्बे से गुजरा करते थे?

(क) जहाँ कैप्टन रहता था।

(ख) जहाँ हालदार साहब का ड्राइवर रहता था।

(ग) जहाँ नेताजी की मूर्ति थी।

(घ) जहाँ नगरपालिका का गठन किया जाना था।

2. उस कस्बे के मकानों के बारे में कौन-सा कथन सत्य है?
- (क) सभी मकान पक्के थे।
 (ख) कुछ ही मकान पक्के थे।
 (ग) कोई मकान पक्का नहीं था।
 (घ) मकानों की जगह बहुमंजिला फ्लैट थे।
3. नगरपालिका निम्नलिखित में से कौन-सा कार्य नहीं करती थी?
- (क) पक्की सड़क बनाना।
 (ख) कबूतरों की छतरी बनवाना।
 (ग) कवि-सम्मेलन करवाना।
 (घ) अस्पताल खुलवाना।
4. सुभाष चंद्र बोस की प्रतिमा निम्नलिखित में से किसके द्वारा लगवाई गई?
- (क) शहर के प्रसिद्ध नेता द्वारा
 (ख) राज्य सरकार द्वारा
 (ग) शहर के उद्योगपति द्वारा
 (घ) नगरपालिका के अधिकारी द्वारा
5. निम्नलिखित कथन (A) तथा कारण (R) को ध्यानपूर्वक पढ़िए। उसके बाद दिए गए विकल्पों में से कोई एक सही विकल्प चुनकर लिखिए। [CBQ]
- कथन (A) - हालदार साहब उस कस्बे से आते-जाते रहते थे।
 कारण (R) - हालदार साहब को हर पंद्रहवें दिन कंपनी के काम के सिलसिले में उस कस्बे

से गुजरना

- (क) कथन (A) गलत है किंतु कारण (R) सही है।
 (ख) कथन (A) और कारण (R) दोनों ही गलत हैं।
 (ग) कथन (A) सही है और कारण (R) कथन (A) की सही व्याख्या है।
 (घ) कथन (A) सही है, किंतु कारण (R) कथन (A) की सही व्याख्या नहीं है।

[4] रूपक अलंकार की परिभाषा लिखिए ।

[5] उपमा अलंकार की परिभाषा लिखिए ।

[6] सूरदास के पद पाठ के आधार पर पूछे गए प्रश्नों के उत्तर दिए गए विकल्पों में से चुनकर लिखिए-

[1] पुरइनि पात रहत जल भीतर ता रस देह नाती पंक्ति में किस स्थिति की ओर संकेत है?

- (i) उद्धव के दर्भाग्यशाली होने की ओर।
 (ii) उद्धव के सौभाग्यशाली होने की ओर।
 (iii) कृष्ण के प्रेम से प्रभावित होने की ओर।
 (iv) कृष्ण के प्रेम से अप्रभावित होने की ओर ।

विकल्प-

- (क) कथन (1) सही है।
 (ख) कथन (i) और (ii) सही हैं।
 (ग) कथन (ii) और (iii) सही हैं।

(घ) कथन (i) और (iv) सही हैं।

[2] कथन (A) और कारण (R) को ध्यानपूर्वक पढ़कर सही विकल्प चुनकर लिखिए :

कथन (A) : गोपियों ने व्यंग्य कसते हुए उद्धव को भाग्यशाली कहा है।

कारण (R) : कृष्ण के सानिध्य में रहते हुए भी उद्धव के मन में कृष्ण के प्रति अनुराग उत्पन्न नहीं हुआ।

(क) कथन (A) गलत है, किंतु कारण (R) सही है।

(ख) कथन (A) और कारण (R) दोनों ही गलत हैं।

(ग) कथन (A) सही है और कारण (R) कथन (A) की सही व्याख्या है।

(घ) कथन (A) सही है, किंतु कारण (R) कथन (A) की सही व्याख्या नहीं है।

[3] 'गुर चाँटी ज्यों पागी' पंक्ति में कौन किसका प्रतीक है?

(क) गुर (गुड) उद्धव का, चाँटी (चींटी) सूरदास का।

(ख) गुर (गुड) उद्धव का, चाँटी (चींटी) श्रीकृष्ण का।

(ग) गुर (गुड) श्रीकृष्ण का, चाँटी (चींटी) उद्धव का।

(घ) गुर (गुड) श्रीकृष्ण का, चाँटी (चींटी) गोपियों का।

[4] उद्धव के व्यवहार की तुलना गोपियों ने किससे की है? सही विकल्प का चयन कीजिए-

(i) जल में पड़े रहने वाले कमल के पत्ते से।

(ii) जल में पड़ी रहने वाली तेल की गागर से।

(iii) गुड से चिपकी रहने वाली चींटी से।

(iv) कृष्ण की प्रीति-नदी में पाँव डुवाने से।

विकल्प-

(क) कथन (i) सही है।

(ख) कथन (i) और (ii) सही हैं।

(ग) कथन (ii) और (iii) सही हैं।

(घ) कथन (i) और (iv) सही हैं।

[7] पोर्टफोलियो बनाना I

SANSKRIT

1 सन्धे: परिभाषाम् लिखत?

2 सन्धे: कति प्रकाराः सन्ति? तेषां नामानि लिखत।

3 स्वरसन्धिः किम्? उदाहरणेन सह लिखत।

4 व्यञ्जनसन्धिः प्रकाराः लिखत।

5 विसर्गसन्धिः किम्? उदाहरणेन सह लिखत।

6 रामेन्द्रः " इत्यस्य सन्धि-विच्छेदं कृत्वा लिखत।

7 "यद्यपि " इत्यत्र कस्य सन्धेः प्रयोगः अस्ति? विच्छेदं अपि कुरुत।

8 पावनः → सन्धि-विच्छेदं कुरुत।

9 नरेन्द्रः → अत्र का सन्धिः अस्ति?

- 10 गिरि + ईश्वरः → सन्धिं कृत्वा सन्धि-नाम लिखत।
 - 11 देवोपकारः → सन्धि-विच्छेदं कुरुत।
 - 12 तत् + जनाः → सन्धिं कुरुत तथा परिवर्तनं लिखत।
 - 13 सद्गुणः → सन्धि-विच्छेदं कुरुत।
 - 14 स्वागतम् → अत्र का सन्धिः अस्ति?
 - 15 नमः + ते → सन्धिं कुरुत।
 - 16 वाक् + ईशः → सन्धिं कृत्वा सन्धि-प्रकारं लिखत।
- अधोलिखित रेखांकितपादानाम् सन्धिम् विच्छेदम् वा कुरुत
- 17 सद्गुणाः मनुष्यस्य भूषणम्।
 - 18 सत् + जनः परोपकारं करोति।
 - 19 कः + चित् छात्रः शीघ्रं पठति।
 - 20 उत् + गमः जलस्य पर्वते भवति।

Art Integrated Project" "कला एकीकृत परियोजना"

मणिका-भाग-२ इत्यस्य 'कालोज्झम्' पाठस्य आधारेण चित्रैः सह समयं लिखत।"

'कालोज्झम्' पाठ के अनुसार समय लेखन चित्र सहित

Subject : Artificial Intelligence (417)

Section 1: Assertion-Reasoning Questions (20 Questions)

Instructions: For the following questions, two statements are given—one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c), and (d) as given below:

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is NOT the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

Unit 1: Communication Skills - II

1. **Assertion (A):** Constructive feedback is essential for continuous improvement.
Reason (R): It points out mistakes respectfully and provides actionable suggestions for better performance.
2. **Assertion (A):** Written communication is the most effective method to use during a sudden fire emergency in a building.
Reason (R): Written communication provides a permanent record for future reference.
3. **Assertion (A):** Nodding your head while someone is speaking shows active listening.
Reason (R): Nodding your head is an example of verbal communication.
4. **Assertion (A):** Jargon and highly technical terms should generally be avoided when speaking to a layperson.

- Reason (R):** Using complex words always ensures the message is understood perfectly.
5. **Assertion (A):** Specific feedback is much more helpful than general feedback.
Reason (R): General feedback tells the receiver exactly what they need to change or improve.
6. **Assertion (A):** Cultural and language differences can act as barriers to effective communication. **Reason (R):** Different cultures may interpret words, body language, and gestures differently.
7. **Assertion (A):** "Concise" communication means keeping the message brief and to the point.
Reason (R): Concise messages save time for both the sender and the receiver.

Unit 2: Self-Management Skills - II

8. **Assertion (A):** Stress is always a harmful and negative experience.
Reason (R): Eustress is a type of positive stress that motivates us to perform better, such as before an exam.
9. **Assertion (A):** Effective time management helps in significantly reducing stress.
Reason (R): Prioritizing tasks prevents last-minute panic and missed deadlines.
10. **Assertion (A):** Self-motivation implies doing things only when someone forces you to do them.
Reason (R): Self-motivated individuals have an internal drive to achieve their goals without external pressure.
11. **Assertion (A):** Working independently requires a high degree of self-awareness.
Reason (R): Knowing your strengths and weaknesses helps you manage tasks effectively without constant supervision.
12. **Assertion (A):** Regular physical exercise is a highly recommended technique for managing stress.
Reason (R): Exercise releases endorphins, which act as natural mood elevators.
13. **Assertion (A):** A self-reliant person is incapable of working within a team.
Reason (R): Independent people take ownership of their tasks and require less micromanagement.

Unit 3: ICT Skills - II

14. **Assertion (A):** Windows 10 is an example of Application Software.
Reason (R): An Operating System manages computer hardware and software resources.
15. **Assertion (A):** It is important to regularly scan your computer with an updated antivirus program.
Reason (R): Antivirus software protects the computer from malicious threats like trojans and worms.
16. **Assertion (A):** A file extension helps the computer identify the type of file and which program to open it with.
Reason (R): A .docx extension represents an image file.
17. **Assertion (A):** Defragmenting a hard drive can speed up file access and improve computer performance.
Reason (R): Defragmentation reorganizes data on the disk so that related pieces of a file are stored contiguously.
18. **Assertion (A):** It is completely safe to click on hyperlinks received in emails from unknown senders.
Reason (R): Phishing emails often contain malicious links designed to steal personal information or install malware.
19. **Assertion (A):** Creating strong passwords is a fundamental computer security practice.

Reason (R): Strong passwords prevent unauthorized access to your personal data and accounts.

20. **Assertion (A):** Keeping your laptop plugged in and charging 100% of the time extends its battery life.

Reason (R): Continuous overcharging can degrade the battery's health and reduce its lifespan over time.

Section 2: Subjective Questions (20 Questions)

Unit 1: Communication Skills - II

1. Define the term 'Communication'. Briefly explain the role of feedback in the communication cycle.
2. Differentiate between verbal and non-verbal communication. Provide two examples of each.
3. What are communication barriers? Explain any two types of barriers and suggest one way to overcome them.
4. List the "7Cs" of effective communication. Explain what it means for communication to be 'Clear' and 'Courteous'.
5. What is constructive feedback? Give a brief scenario demonstrating how you would provide constructive feedback to a classmate who spoke too softly during a presentation.
6. Compare specific feedback with general feedback using suitable examples. Why is specific feedback considered better?
7. State any three effective practices that can help improve your active listening skills.

Unit 2: Self-Management Skills - II

8. Define stress management. What are three common signs of stress in a student?
9. Distinguish between 'Eustress' and 'Distress'. Provide an example of each from a student's life.
10. What does it mean to have the ability to work independently? List two advantages of this skill.
11. Define self-motivation. State two ways you can build or maintain self-motivation.
12. Why is self-awareness considered the first step towards effective self-management?
13. Explain the importance of time management. Mention any two steps involved in managing time effectively.

Unit 3: ICT Skills - II

14. What is an Operating System (OS)? Mention any two of its primary functions.
15. Differentiate between a file and a folder in an operating system. Write down the steps to create a new folder on the desktop.
16. List four common symptoms that might indicate your computer is infected with a virus.

17. Explain the importance of keeping a computer physically clean. State two precautions you should take while cleaning computer hardware.
18. What is a computer virus? How does malware differ from a regular software application?
19. Write down the exact steps required to rename a file and to delete a file permanently in a Windows environment.
20. Explain the significance of taking regular data backups. Name two external storage devices commonly used for this purpose.