



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

ENGLISH

F.M

01. Do you really think that Mrs.Pamphrey was very caring to her pet? Suggest any three points either in favour of or in against of this question in not more than 30 words.
02. If you could read only one book for the rest of your life. What would it be and why? Answer this question in 40-50 words.
03. Write your experience about the place you visited in summer vacation. Answer it in not more than 75-80 words.
04. Prepare a project on A4 size page (chart paper) about the autobiography of William Wordsworth. Description should not be in more than 75-80 words.
05. Use the following words in two different ways of parts of speech
One has been done for you as anexample

Water- (noun) - I drink water for sustaining my life.

Water - (Verb)- She waters her plants of garden every day.

A. Plant

B. Institute

C. Educate

D. Cricket



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

MATHEMATICS

F.M

1. Find the quadratic polynomial sum and product of whose zeros are -1 and -20 respectively. . Also find the zeros of the polynomial so obtained.
2. A fraction becomes $\frac{1}{3}$ when 2 is subtracted from the numerator and it becomes $\frac{1}{2}$ when 1 is subtracted from its denominator. Find the fraction.
3. Vijay studying in class X participated in a periodic test having multiple choice questions. Vijay scored 40 marks in the test by getting 3 marks for each right answer and losing 1 mark for each wrong answer. Had 4 marks been awarded for each correct answer and 2 marks been deducted for each incorrect answer, then Vijay would have scored 50 marks. How many questions were there in the test?
4. Find the largest number which on dividing 1251, 9377 and 15628 leaves remainders 1, 2 and 3 respectively.
5. Find HCF of $(x^2 - 3x + 2)$ and $(x^2 - 4x + 3)$.
6. Find the least number that is divisible by first five even numbers.
7. Show that $\sqrt{2} + 3$ is an irrational number.
8. If a and b are the zeros of the quadratic polynomial $f(x) = 2x^2 - 5x + 7$, find a polynomial whose zeros are $2a + 3b$ and $3a + 2b$.
9. If a and b are the zeros of the quadratic polynomial $f(x) = x^2 - 4x + 3$, find the value of $a^2b^2 + a^2b$.
10. If one zero of the polynomial $3x^2 - 8x + 2k + 1$ is seven times the other, find the value of k.
11. Solve: $ax + by = a - b$ and $bx - ay = a + b$
12. For what value of k, will the following pair of equations have infinitely many solutions?
 $2x + 3y = 7$ and $(k + 2)x - 3(1 - k)y = 5k + 1$
13. Draw the graph of $2x + y = 6$ and $2x - y + 2 = 0$. Shade the region bounded by these lines and x-axis. Find the area of the shaded region.

14. A part of monthly hostel charges in a college hostel are fixed and the remaining depends on the number of days one has taken food in the mess. When a student A takes food for 25 days, he has to pay 4,500, whereas a student B who takes food for 30 days, has to pay 5,200. Find the fixed charges per month and the cost of food per day.
15. On a morning walk, three persons step off together and their steps measure 40 cm, 42 cm and 45 cm respectively. What is the minimum distance each should walk so that each can cover the same distance in complete steps?
16. If a and b are zeros of polynomial $f(x) = 2x^2 + 11x + 5$, then find $a^2 + b^2$.
17. On dividing the polynomial $f(x) = x^3 - 5x^2 + 6x - 4$ by a polynomial $g(x)$, the quotient and remainder are $x - 3$ and $-3x + 5$ respectively. Find the polynomial $g(x)$.
18. Find whether the following pair of linear equations has a unique solution. If yes, find the solution.
 $7x - 4y = 49$ and $5x - 6y = 57$
19. A father's age is three times the sum of the ages of his two children. After 5 years his age will be two times the sum of their ages. Find the present age of father.
20. Show graphically the given system of equations $2x + 4y = 10$ and $3x + 6y = 12$ has no solution.
21. A man travels 600 km partly by train and partly by car. If he covers 400 km by train and the rest by car, it takes him 6 hours and 30 minutes. But, if he travels 200 km by train and the rest by car, he takes half an hour longer. Find the speed of the train and that of the car.
22. If $\frac{2}{3}$ and -3 are the zeros of the polynomial $ax^2 + 7x + b$, then find the values of a and b.
23. 2 women and 5 men can together finish a piece of embroidery in 4 days, while 3 women and 6 men can finish it in 3 days. Find the time taken by 1 woman alone, and that taken by 1 man alone to finish the embroidery.
24. If one root of the polynomial $f(x) = x^2 + 5x + k$ is reciprocal of the other, find the value of k.
25. Draw the graphs of the equations $y = -1$, $y = 3$ and $4x - y = 5$. Also, find the area of the quadrilateral formed by the lines and the y-axis.

PROJECT WORK

1. Make a project on Real Life Situations where we find Application of Linear Equations in two Variables.
2. Complete 5 activities in your Mathematics Lab Manual.

श्री अय्यप्पा पब्लिक स्कूल
बोकारो इस्पात नगर
ग्रीष्मावकाश गृहकार्य 2022-23

वर्ग:- दशम

विषय :- हिन्दी

खंड - (क)

अतिलघुत्तरीय प्रश्न

निम्नलिखित प्रश्नों के उत्तर एक- एक वाक्य में लिखें-

- 1 श्रीकृष्ण के मित्र का क्या नां था?
- 2 गोपियों ने खुद की तुलना किससे की?
- 3 राजा का क्या धर्म होता है?
- 4 'मधुकर' शब्द का प्रयोग किसके लिए हुआ है?
- 5 नेताजी की मूर्ति किसने बनाई थी?
- 6 हालदार साहब कितने दिनों के अन्तराल पर कस्बे से गुजरते थे?
- 7 हिन्दी में रसों की संख्या कितनी बताई गई है?
- 8 सूरदास के पद किस ग्रंथ से लिए गए हैं?
- 9 अलंकार के कितने भेद होते हैं?
- 10 सुभाष चंद्र बोस का जन्म कब और कहाँ हुआ था?

खंड-(ख)

लघुत्तरीय प्रश्न

निम्नलिखित प्रश्नों के उत्तर 4-5 वाक्यों में दें-

- 11 'अब गुरु ग्रंथ पढाए'पंक्ति में क्या भाव छुपा है?
- 12 सूरदास के काव्य भाषा की दो प्रमुख विशेषताओं को लिखे।
- 13 हारिल पक्षी की क्या विशेषता होती है?
- 14 गोपियों का मन किसने चलते समय चुरा लिया था? अब वे क्या चाहती है?
- 15 किसी स्थानिय कलाकार को ही मूर्ति बनाने का अवसर क्यों दिया गया होगा?

खंड-(ग)

निम्नलिखित प्रश्नों के उत्तर 8-10 वाक्यों में दीजिए-

- 16 नगर निगम या नगर पालिका के क्या कार्य होते हैं?
- 17 पानवाले व्यक्ति का चारित्र चित्रण करें।
- 18 सूरदास जी ने करूई ककरी किसे कहा है और क्यों?
- 19 क्या आप उद्धव को भाग्यशाली मानते हैं? यदि नहीं तो क्यों?
- 20 नेताजी का चश्मा पाठ का मूल भाव क्या है?

खंड-(घ)

दीर्घ उत्तरीय प्रश्न

- 21 अलंकार की परिभाषा लिखकर उसके भेदों का वर्णन करें।
- 22 अर्थ की दृष्टि से वाक्य के कितने भेद होते हैं? प्रत्येक का वर्णन करें

खंड-(ङ०)

क्रियाकलाप(Activity)

- 23 सूरदास के ही समान मीराबाई ने भी कृष्णभक्ति से सराबोर पदों की रचना की है। मीराबाई के किसी एक पद को पूरा लिखकर उसका भावार्थ भी स्पष्ट करें।

खंड-(च)

परियोजना कार्य(Project Work)

- 24 'गावों एवं शहरों में महिलाओं की सुरक्षा'- इस विषय पर एक परियोजना तैयार करें।

SREE AYYAPPA PUBLIC SCHOOL
SECTOR - 5, B.S CITY.
SUMMER ASSIGNMENT: 2022- 23

Class - 10

Sub - Sanskrit

1. प्रथम वर्ण का तृतीय वर्ण में परिवर्तन, प्रथम वर्ण का पंचम वर्ग में परिवर्तन, उत्त्व एवं रत्व सन्धि के 5-5 उदाहरण लिखकर उनका सन्धि विच्छेद करे।
2. पर्यावरण के विषय से 10 वाक्य संस्कृत भाषा में लिखें।

SANSKRIT PROJECT

1. वन में स्थित गुरुकुल का चित्र बनाकर उसके विषय में 5 वाक्य संस्कृत भाषा में लिखें।
(USE ONLY A4 SIZE PAPER)



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

S.ST

F.M

1. Make an individual project file on: -
Election of Municipal Corporation in Chas.
(Political, Social awareness and Logical thinking based)
2. Write in details about LTTE of Sri Lanka. (with map of Sri Lanka)
3. Explain the various reforms introduced by Napoléon in France under his control.
(The Civil Code of 1804 or Napoleonic code)
4. Show major soil types on India's outline map and diagram of soil profile.
5. Write in details about development goals or aims of your life.
6. Collect current comparative data of different states of India regarding: -
 - a. Infant Mortality rate. (IMR)
 - b. Literacy Rate. (LR)
 - c. Net Attendance Ratio. (NAR)
 - d. Per Capita Income. (PCI)
7. What steps did French revolutionaries take to create a sense of collective identity among French revolution?
8. Explain the nation building process of Germany after 1848.
9. Explain any five reforms introduced by Napoleon in the regions under the control.
10. Differentiate between horizontal and vertical division of power sharing.
11. Compare the situation of Belgium and Sri Lanka considering their location, Size and cultural aspects.
12. 'Both Belgium and Sri Lanka are democracies but they follow different systems of power sharing'. Support the statement by giving five points of differences.
13. 'Human activities have contributed significantly in land degradation '. Justify the statement with five examples.
14. Suggest any five measure of soil conservation.
15. What are the main factors affecting the formation of soil? Describe each factors briefly.

Note: - 1. Project work must be done in A4 size paper in file.

2. Question and answers must be done in a copy.



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

PHYSICS

F.M

Activity:

Draw and write the image formation by concave mirror and convex mirror for different positions of object.

Questions for summer assignment

Q1. Write the properties of image formed by a plane mirror.

Q 2. An object, 4 cm in size, is placed 25 cm in front of a concave mirror of focal length 15 cm.

At what distance from the mirror should a screen be placed in order to obtain a sharp image ?

Find the nature and size of the image.

Q 3. A ray of light incident normally on a plane mirror. What will be the

(a) angle of incidence, and

(b) angle of reflection.

Q 4. When an object is placed at a distance of 15 cm from a concave mirror, its image is formed at the distance of 10 cm in front of the mirror. Calculate the radius of curvature of the mirror.

Q 5. An object 3 cm high is placed at a distance of 8 cm from a concave mirror which produces a virtual image of 4.5 cm high.

(i) What is the focal length of the mirror?

(ii) What is the position of image?

(iii) Draw a ray diagram to show the formation of the image.

Q 6. What is the minimum number of rays required for locating the image formed by a concave mirror for an object ? Draw a ray diagram to show the formation of a virtual image by a concave mirror.

Q 7. With the help of a ray diagram, determine the position, nature and size of the image formed of an object placed at the centre of curvature of a concave mirror.

Q 8. With the help of a diagram, the nature, size and position of the image formed when an object is placed beyond the centre of curvature of a concave mirror.

Q 9. How far should an object be placed from the pole of a converging mirror of focal length 20 cm to form a real image of the size exactly $\frac{1}{4}$ th of the size of the object?

Q 10. A diverging mirror of radius of curvature 40 cm forms an image which is half the height of the object. Find the object and image positions.



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

CHEMISTRY

F.M

1. (i) Complete and Balance the following reactions.

- (a) Barium Chloride reacts with sodium sulphate
- (b) Dinitrogen combines with dihydrogen
- (c) Thermal decomposition of Ferrous sulphate
- (d) Photolysis of Silver Bromide
- (e) Lead Nitrate + Potassium Iodide
- (f) Aluminium metal reacts with Hydrochloric acid

(ii) *M.C.Q.*

(A) Magnesium ribbon is rubbed before burning because it has a coating of

- (a) basic magnesium carbonate
- (b) basic magnesium oxide
- (c) basic magnesium sulphide
- (d) basic magnesium chloride

(B) Which of the following are exothermic processes?

- (i) Reaction of water with quick lime
 - (ii) Dilution of an acid
 - (iii) Evaporation of water
 - (iv) Sublimation of camphor (crystals)
- (a) (i) and (ii)
 - (b) (ii) and (iii)
 - (c) (i) and (iv)
 - (d) (ii) and (iv)

(C) Oxidation is a process which involves

- (a) addition of oxygen
- (b) addition of hydrogen
- (c) removal of oxygen
- (d) removal of hydrogen

(D) Which among the following statement(s) is (are) true?

Exposure of silver chloride to sunlight for a long duration turns grey due to

- (i) the formation of silver by decomposition of silver chloride
 - (ii) sublimation of silver chloride
 - (iii) decomposition of chlorine gas from silver chloride
 - (iv) oxidation of silver chloride
- (a) (i) only
 - (b) (i) and (iii)
 - (c) (ii) and (iii)
 - (d) (iv) only

(E) A substance 'X' is used in white-washing and is obtained by heating limestone in the absence of air. Identify 'X'.

- (a) CaOCl_2
- (b) Ca(OH)_2
- (c) CaO
- (d) CaCO_3

(F) Which of the following is an endothermic process?

- (a) Dilution of sulphuric acid
- (b) Sublimation of dry ice
- (c) Condensation of water vapours
- (d) Respiration in human beings

(G) In the double displacement reaction between aqueous potassium iodide and aqueous lead nitrate, a yellow precipitate of lead iodide is formed. While performing the activity if lead nitrate is not available, which of the following can be used in place of lead nitrate?

- (a) Lead sulphate (insoluble)
- (b) Lead acetate
- (c) Ammonium nitrate
- (d) Potassium sulphate

(H) What type of chemical reactions take place when electricity is passed through water?

- (a) Displacement
- (b) Combination
- (c) Decomposition
- (d) Double displacement

(I) A substance added to food containing fats and oils is called:

- (a) Oxidant
- (b) Rancid
- (c) Coolant
- (d) Antioxidant

(J) Name the products formed when iron filings are heated with dilute hydrochloric acid

- (a) Fe (III) chloride and water
- (b) Fe (II) chloride and water
- (c) Fe (II) chloride and hydrogen gas
- (d) Fe (III) chloride and hydrogen gas

(K) Which of the following gases can be used for storage (a) Carbon dioxide or Oxygen

- (b) Nitrogen or Oxygen
- (c) Carbon dioxide or Helium
- (d) Helium or Nitrogen

(L) Fill in the Blanks

1. The addition of oxygen to a substance is called whereas removal of oxygen is called
2. The addition of hydrogen to a substance is called whereas removal of hydrogen is called
3. Precipitation reactions produce insoluble
4. Reactions in which energy is given out are known as
5. Reaction in which an element displaces another element from its compound is called

(M) Answer the following questions -

- (a) Why does the colour of copper sulphate solution change when an iron nail is dipped in it?
- (b) What happens when dilute hydrochloric acid is added to iron filings?
- (c) What does one mean by exothermic and endothermic reactions? Give examples.
- (d) What is the difference between displacement and double displacement reactions? Write equations for these reactions.
- (e) In the refining of silver, the recovery of silver from silver nitrate solution involved displacement by copper metal. Write down the reaction involved.
- (f) Oil and fat containing food items are flushed with nitrogen. Why?

2. Define the following term with example of each-

- (a) Electrolysis
- (b) Precipitation Reactions
- (c) Decomposition reactions
- (d) Oxidising and Reducing Agents

3. (a) What do you mean by Chemical Equations?

(b) The gases hydrogen and chlorine do not react with each other even if kept together for a long time. However, in the presence of sun light, they readily combine. What does actually happen?

4. A water insoluble substance 'X' on reacting with dilute H_2SO_4 released a colourless and odourless gas accompanied by brisk effervescence. When the gas was passed through water, the solution obtained turned blue litmus red. On bubbling the gas through lime water, it initially became milky and the milkiness disappeared when the gas was passed in excess. Identify the substance 'X' and write the chemical equations of the reactions involved.

5. A strip of a metal X is immersed in the aqueous solution of salt YSO_4 blue in colour. After sometime, a layer of the metal Y from the salt solution is deposited on the strip of the metal X. Whereas the metal X is used for galvanisation, the metal Y is employed in making electric cables.

- (a) Predict the metal X.
- (b) What could be the metal Y?
- (c) Can you name the salt YSO_4 ?

What is the nature of the chemical reaction taking place?

CHEMISTRY ACTIVITY-

(1.) Write an activity to find out the dissolution of substance into water is exothermic or endothermic. (Note- This activity must be submitted in stick file)



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

BIOLOGY

F.M

- A. Draw a well labelled diagram of human digestive system and human respiratory system and make a model of any one of these.
- B. Answer the following questions:-

1. How is the gallbladder involved in digestion, even though it is considered accessory organs?
2. Give reason:
 - i) The wall of trachea is supported by cartilage rings.
 - ii) Small intestine in herbivorous is longer than in carnivorous.
 - iii) Aquatic animals breathe faster than the terrestrial animals.
3. Write one feature which is common to each of the following pairs of term/organs?
 - i) glycogen and starch
 - ii) Chlorophyll and haemoglobin
 - iii) gills and lungs
4. Write a note on the mechanism of breathing?
5. What is the structure and function of the pancreas in human digestive system?
6. Name the enzyme present in saliva. What is the substance on which it acts?
7. What is photosynthesis? Give the overall chemical equation for photosynthesis?
8. What are the important events that takes place during photosynthesis?
9. Name the glands present in the wall of the stomach and name the substance released by this gland?
10. What are the functions of hydrochloric acid?
11. What are the functions of bile juice?
12. What is the role of pancreas in digesting the food in small intestine?
13. What is emulsification? why is it necessary?
14. Name the two glands that are attached to the alimentary canal from outside and open into the small intestine. What do they produce?
15. Describe the nutrition in Amoeba with the help of labelled diagram.
16. Write the differences between aerobic respiration and anaerobic respiration with example?
17. What are the different pathways in which glucose is oxidized in various organisms?
18. Why is more carbon dioxide transported by plasma than oxygen?
19. What are the different steps for starch test?
20. Explain why respiration is considered as exothermic reaction?
21. Describe an experiment to show that sunlight is necessary for photosynthesis.
22. What are the foods stored in autotrophs and heterotrophs respectively?
23. Draw a neat labelled diagram of open stomata and their functions.

24. Differences between: -

- i) Pepsin and Trypsin
- ii) Photosynthesis and Respiration
- iii) Breathing and Respiration

25. i) Why are cramps caused in our muscles during sudden activity?
ii) Name the type of respiration that takes place in yeast during fermentation.



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Summer Holiday Assignment: 2022-2023

Class - X

IT

F.M

I. Multiple choice Question: -

1. An oral communication is based on _____
a) Facial expressions. b) Listening and hearing. c) Body language. d) Language and tone of voice.
2. A word used to express emotion and is often followed by an exclamation mark is called _____
a) Preposition. b) conjunction. c) Interjection. d) Adverb.
3. _____ is an instance of non-verbal communication.
a) A speech. b) Proximity. c) A notice. d) An e-mail.
4. What is the final step in the communication cycle?
a) Encoding. b) Decoding. c) Feedback. d) Receiving.
5. Is there is absence of feedback then it will lead to _____.
a) Mistrust. b) Communication Barrier. c) Interference. d) None of the above.
6. Speaking louder to drown out the noise is a _____ barrier to communication.
a) type of b) Factor causing a c) measure to overcome d) None of these.
7. Visual communication among the people are dependent on _____.
a) Signs, Symbols and pictures b) Text messages. c) Posture. d) Body language.
8. It is a word used in place of noun that is _____
a) Adverb b) verb c) Pronoun d) Preposition
9. which of the following is the process in which the receiver interprets and understand the message?
a) Decoding. b) Encoding. c) Feedback. d) None of these.
10. Which type of feedback supports student development from their current level of achievement?
a) Physical Barrier b) Semantic Barrier. c) Inter personal Barrier. d) None of the above.

Very Short Answer Type Questions.

11. Define Verbal Communication.
12. Explain the process of decoding.
13. What do you understand by feedback?

14. How writing skills are important part of communication?

15. Describe what we mean by encoding message.

Short Answer Type Questions.

16. What are the factors that causes barriers to communication? Explain any three.

17. Which measures must be adopted to overcome the factors causing communication Barriers?

18. What are the various forms of communication? Describe them in one sentence each with examples.

19. In a communication cycle, explain the term 'medium'. What problems may the medium create and how?

20. Describe the term descriptive feedback.

Long Answer Type Questions.

21. Explain the communication Cycle briefly with diagram.

22. Explain the different types of sentences with one example each.

23. Explain the principles of effective communication in details.

24. Explain the difference between specific feedback and non-specific feedback by giving examples of each.

25. What are the Eight parts of Speech? Give one Examples.



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Class - X

ART

F.M

Make a Glass painting using glass colour. (Size– A4)

Theme: Village Scene

Materials required

1 . Village scene picture

Example:



2 . Glass or OHP (transparent) sheet 3 Glass colour.

4 . Brush, black sketch pen

5 . Glass outliner in black colour.



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

MUSIC

F.M

01. Learn and sing school prayer and two patriotic song. (Prayer to be learn from school dairy/video/audio to be presented)
02. Collect the basic knowledge of notation system.
03. Collect brief introduction of Indian music.
04. Knowledge of terms:
 1. Sangeet
 2. Raaga
 3. Swar
 4. Saptak
05. Collect the photographs of five famous Indian musicians and write a short notes about them.



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

DANCE

F.M

1. Cut and paste the pictures of any 2 famous Bharatnatyam and kathak dancers in your copy.
Give a brief account on the dance style in 20 words.
2. Types of expressions in abhinaya.
3. Different types of postures for different gods, that we can use in dance. (Deva hastas)
4. Neck movements. (Greevabhed)



SREE AYYAPPA PUBLIC SCHOOL

Summer Holiday Assignment: 2022-2023

Class - X

PHYSICAL EDUCATION

F.M

1. Write the terminologies, fundamental skills, rules and diagram with measurements (in meters) of the following games (any one). Make a Collage of famous Players on A4 sheet of the same.

- a) Kho Kho
- b) Basketball
- c) Football
- d) Cricket
- e) Volleyball
- f) Kabaddi
- g) Handball

2. Write the steps of yoga asana and draw diagram or paste the picture.

- a) Sun Salutation
- b) Warrior Pose
- c) Wheel Pose
- d) Cobra Pose

Write five advantages and disadvantages of the above.

3. Write short notes on

- a) Arjuna Award
- b) Chacha Nehru Award
