

**DR. VIRENDRA SWARUP PUBLIC SCHOOL,
KALYANPUR**

SESSION-2022-23

SUMMER HOLIDAY HOMEWORK

CLASS: IX

Dear Parents,

Season's Greetings! Vacation is the most beautiful moment of every student's life. They wait eagerly for the same. They need it for relaxation and hone their skills. They feel fresh which enhances their concentration towards studies. In vacation, students try to learn new things and enjoy it with their holiday homework. We have announced our Summer Vacation from May 30, 2022; this definitely comes along with the 'Holiday Homework'! Our Holiday Homework has been carefully planned to cater to the diversified interests of students and help them revise for the upcoming assessments. We are looking forward to children coming back to school after rejuvenating holidays, with smiling faces and joy in their hearts.

INSTRUCTIONS FOR THE HOLIDAY HOMEWORK NOTE: - Holiday homework carries marks, hence submission of work post vacation is compulsory for all the students.

1. Start the revision for all the subjects as per the syllabus of the periodic assessment which is scheduled from July onwards.
2. Written homework of all the subjects: - English, Hindi, Maths, Science, Social Science, and Computer is to be done as per the instructions.
3. The holiday homework must be done in a very neat and presentable manner. Questions must be done in the given sequence.
4. The child will be assessed for the handwriting, presentation, neatness, completion of all the given questions, indexing of the work.
5. For the project wherever it is mentioned in the question, strictly adhere to the instructions.
6. The child must present his/her work very neatly.
7. Enrich your vocabulary by learning the vocabulary words from English and Hindi textual books.
8. Subject teachers have further imparted specific instructions for their subjects. Before attempting the question, you must read them thoroughly.
9. Also download the worksheets attached herewith for practice from the schoolpad.

English Language & Literature

A portfolio on "Tenses"

- *Use comment sheets & art sheets for the portfolio.
- * A proper hardbound file should cover the entire project.
- * Cover page should be creative depicting relevance to the topic.
- * Colours & other decorative materials can be used.
- * Presentation should be neat & innovative.
- * Illustrations can be used for explanation.

NOTE: Submit the project to the subject teacher.

हिंदी परियोजना कार्य

मुंशी प्रेमचंद (Portfolio)

1. आवरण पृष्ठ(कवर पेज)
2. परिचय (स्वयं का)
3. विषय सूची
4. लेखक का जीवन परिचय चित्र सहित ।
5. रचनाएं (अलग-अलग विधाओं की)
6. भाषा शैली व साहित्यिक योगदान ।
7. पाठ्यपुस्तक की कथा "दो बैलों की कथा : का सारांश
8. प्रेमचंद जी द्वारा लिखित कहानी " प्रायश्चित " पढ़कर उसकी समीक्षा कीजिए ।
9. धन्यवाद पत्र ।

उपरोक्त हिंदी परियोजना समस्त कार्य A4 शीट में किया जाएगा ।

Mathematics

Copy down the given activity in an inter-leave notebook.

ACTIVITY 2: To prove an identity by paper cutting method

Aim: To verify the algebraic identity $(a+b)^2 = a^2 + 2ab+b^2$.

Materials Required :1. Drawing sheet

2.Pencil

3.Cello-tape

4.Coloured papers

5.Cutter

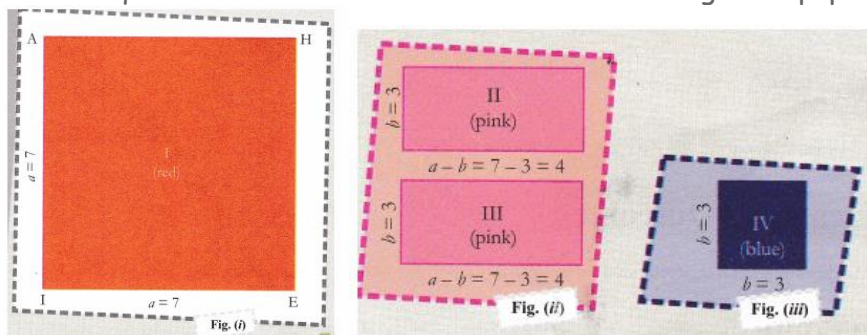
6.Rule

Theory

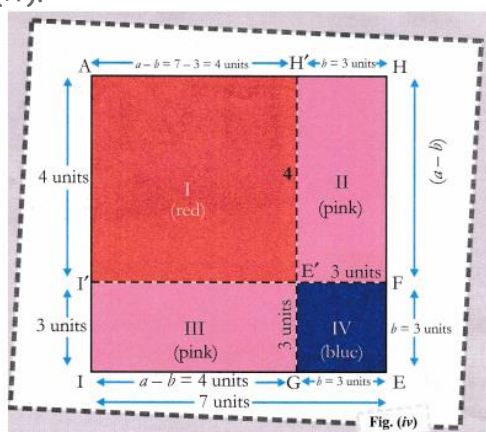
Take two distinct values of a and b, say $a=7$ units and $b = 3$ units.

1. Draw a square I of side a (say 7 units) on the white sheet of paper, fill with red colour and name it as AHEI, fig. (i).
2. Find the value of $a - b$, i.e., $7 - 3 = 4$ units.
3. Now, draw two rectangles II and III each having length $(a - b)$, i.e., $7 - 3 = 4$ units and breadth $b =$ units, on a pink glazed paper, fig. (ii)

4. Draw a square IV of side $b = 3$ units on a different glazed paper, say, blue, fig. (iii).



5. Now, cut rectangles II and III and square IV from glazed papers and paste them on white sheet of paper. Arrange all these pieces inside the square AHIE as shown in fig. (iv).



Science

Biology: A project on the topic 'BIOGEOCHEMICAL CYCLES OCCURING IN NATURE'

Biogeochemical cycle, is the natural pathways by which essential elements of living matter are circulated. Taking clues from the Chapter- Natural Resources and the sub-topic 'Biogeochemical Cycles', prepare a project on the topic mentioned above.

Points to note:

1. Use A4 size sheets
2. It should be a hand written project (blue or black pen should be used)
3. You can use diagrams and material from the web
4. Each illustration should be supported with a write up/relevance to the topic
5. The cover page should be written in bold letters with the topic, name and roll number Follow the sequence of pages as given below:
 - a. Acknowledgement
 - b. Index
 - c. Introduction
 - d. Different biogeochemical cycles and their importance
 - e. Bibliography
6. Use a hard bound cover file.

Physics

3- Project: Make a working model on the given topics

1. Non-Conventional Source Of Energy (Roll no. 1 to 5)

2. Concept of Force and its application (Roll no. 6 to 10)
3. Pascal's Law (Roll no. 11 to 15)
4. Concept of Law of Conservation of Energy (Roll no. 16 to 20)
5. Tesla Coil (Roll No. 21 to 25)

Chemistry

Do the given worksheet and back exercises of Chapter 1: Is Matter Around Us Pure in your chemistry register

Social Science

Manual for Disaster Management

Choose to be any authority on Disaster Management, such as a village Sarpanch, District Magistrate, Police Inspector or Fire Services Officer. Formulate laws or rules to be followed in a disaster for the most vulnerable groups. Study the available precautions and Rules-Fire Safety. Prepare a manual for your department's officials to follow in an emergency. It should include rules to follow for health, safety, relief availability and distribution, law and order etc. Make separate pages for each.

Project should be developed and presented in this order:

1. Cover page showing project title, school's name, students name, class and section and academic session(year).
2. List of contents with page number (approx...15 pages)

Acknowledgements:

Acknowledging institution, offices and libraries visited and people who have helped.

Project Overview:

1. Purpose, aim, methodology and experience while doing the project.
2. Chapters with relevant headings.
3. Summary and conclusions based on findings.
4. Bibliography should have the title, pages referred, author, publisher, year of publication and if a website, the name of the website with the specific link which has been used.

NOTE: Only eco-friendly material to be used.

Art Integrated Project

Subject Integrated - English, Social Science & Art & Craft

Nature of activity - Individual

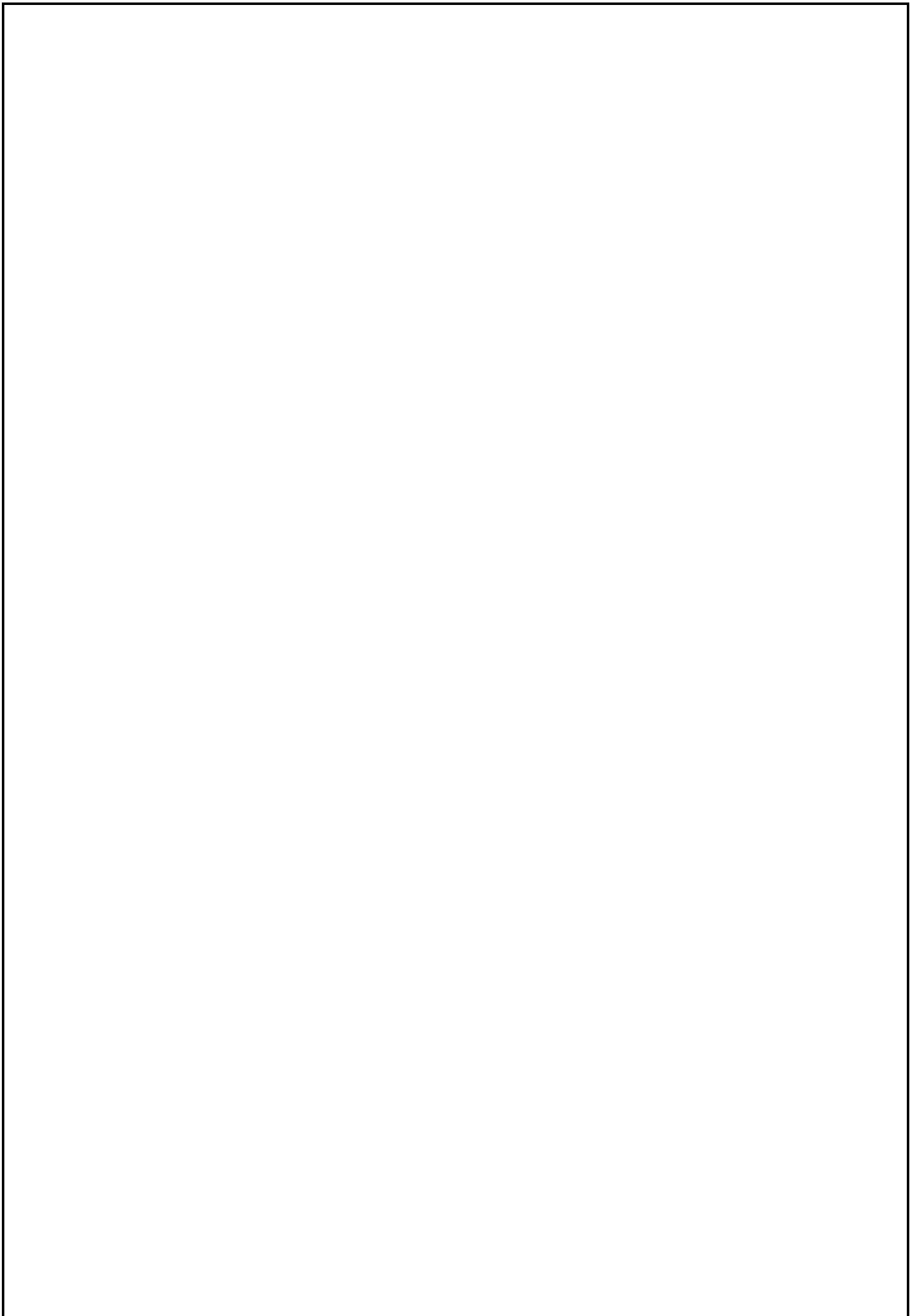
Procedure- Make a Scrap book on the paired State/UT (Meghalaya and Arunachal Pradesh) about important facts, basic knowledge, self-introduction, historical place, indigenous games, culture, food, languages, clothes, flora-fauna etc. and other important and interesting information about the States/UTs

Computer

PowerPoint Presentation

Make a PowerPoint presentation on Cyber Safety that should include safely browsing the web, Cyber stalking and Cyber crime. Mention the measures that one can take to safeguard him/herself from being a victim of any kind of Cyber crime.

No. of slides: 8 to 10





Note: All these questions must be attempted and written neatly in your English pc (personal copy).

THE FUN THEY HAD

Answer the following questions briefly, (40-50 words)

- Q1. What did Margie hate?
- Q2. What had the mechanical teacher been giving to Margie?
- Q3. Why did Margie's mother send for the County Inspector?
- Q4. What was wrong with the geography sector of Margie's mechanical teacher?
- Q5. What was meant by a regular teacher?
- Q6. What is the name of Margie's mother?
- Q7. On which two days were there no lessons for Margie?
- Q8. What did Margie write in her diary?
- Q9. Describe the book that Tommy had found in the attic.
- Q10. Had Margie ever seen a book before?
- Q11. What things about the book did Margie find strange?
- Q12. What were Tommy's and Margie's opinion about the book?
- Q13. "What a waste!" What is Tommy referring to as a 'waste'? Is it really a waste? Why/why not?
- Q14. What do you think a telebook is?
- Q15. How does Tommy find the telebooks of his own time to be better?
- Q16. Where was Margie's school? Did she have any classmates?
- Q17. Why had Margie started hating her school?
- Q18. Which part of her school did Margie hate the most?
- Q19. What kind of teachers did Margie and Tommy have?
- Q20. What was the County Inspector trained to do?
- Q21. What idea do you form of the County Inspector as a person?
- Q22. What had once happened to Tommy's teacher?
- Q23. How did Margie react when Tommy told her that twentieth-century schools had human teachers?
- Q24. Who interrupts Margie and Tommy's conversation about the book? Why?
- Q25. Why couldn't Margie concentrate on the Arithmetic lesson?

Answer the following in detail. (100-120 words)

- Q26. Why did Margie think that children must have loved to go to school when her grandfather's grandfather was a little boy?
- Q27. Will future schools be completely devoid of humans and human values? Give a reasoned answer.
- Q28. Describe the characteristics of the old school? How did it influence Margie?
- Q29. How did a chance discovery of a paper book leave Margie and Tommy awestruck?
- Q30. What are the main features of the mechanical teachers and the schoolrooms that Margie and Tommy have in the story?
- Q31. Suppose you are Margie. Write a diary entry dated 17th May 2157 about Tommy's real book that he found in his attic.

THE SOUND OF MUSIC (Part I)

Answer the following questions briefly. (40-50 words)

- Q32. What were Evelyn's feelings as she stood on the platform waiting for the London underground?
- Q33. How old was Evelyn when she went to the Royal Academy of Music? Why was she nervous on her way to the academy?
- Q34. Why was Evelyn Glennie going to face a bigger challenge at the prestigious Royal Academy of Music in London?
- Q35. When and how was Evelyn's hearing problem noticed?

- Q36. Who advised Evelyn's parents to take her to a specialist? Why?
- Q37. When was Evelyn's deafness confirmed? What advice was given to her?
- Q38. "Everything suddenly looked black". Why did Evelyn feel this way?
- Q39. How did Evelyn Glennie respond to the discovery of her deafness?
- Q40. How did Evelyn's teachers respond when she expressed her desire to play a xylophone?
- Q41. Most of the teachers discouraged her but percussionist Ron Forbes spotted her potential. How did he respond to it?
- Q42. "I had learnt to open my mind and body to sounds and vibrations," says Evelyn. How did she do this?
- Q43. What kind of recognition did Evelyn get at the Royal Academy of Music?
- Q44. Why did Evelyn say, "Men with bushy beards give me trouble"?
- Q45. Which qualities of character enabled Evelyn to achieve unprecedented success in life?
- Q46. What had happened to Evelyn?
- Q47. What was Evelyn determined to do?
- Q48. Who was Ron Forbes? What did he inspire Evelyn for?
- Q49. How does Evelyn regard her own success?
- Q50. Name the various places and causes for which Evelyn performs.
- Q51. What is Evelyn's contribution to percussion?

Answer the following questions in detail. (100-120 words)

- Q52. Evelyn did not succumb to her disability. Comment.
- Q53. "If you work hard and know where you are going, you'll get there," remarks Evelyn Glennie. What does it reveal about her character?

THE SOUND OF MUSIC (Part II)

Answer the following questions briefly. (40-50 words)

- Q54. Where and how did Bismillah Khan begin his career in music?
- Q55. What honours and awards were bestowed upon Ustad Bismillah Khan in foreign countries?
- Q56. Why did Bismillah Khan leave the glamour of the film world and return to Benaras? What does this tell you about him?
- Q57. How did India honour and reward the great musician, Bismillah Khan?
- Q58. What advice did Bismillah Khan give to the Indian youth?
- Q59. How does Bismillah Khan embody India's rich cultural and secular tradition?

Answer the following questions in detail. (100-120 words)

- Q60. How was Bismillah Khan associated with the film world?
- Q61. Why did Emperor Aurangzeb ban the playing of the pungi and how was it improved?
- Q62. Write a note on the life and achievements of Bismillah Khan as a 'shehnai vaadak'. What values of life do you derive from his story?
- Q63. What important lesson does the life of Evelyn Glennie and Bismillah Khan teach us?

THE LOST CHILD

Answer the following questions briefly. (40-50 words)

- Q64. Was the fair popular with people in general? Give reasons. /
Was the festival of spring an attraction for the people?
- Q65. Parents were in a hurry to reach the fair but the child was delaying them. How?
- Q66. Why does the child move on without waiting for his parents' answer whenever he asked for things that attracted him?
- Q67. When does the child realize that he had lost his way?
- Q68. How has the lost child's anxiety and insecurity been described?
- Q69. Compare the reactions of the father and mother at the child's request for a toy.
- Q70. What was the boy engrossed in when his parents sat in the shade of a grove, near a well?
- Q71. What diverted the child's attention from the shower of flower petals in the grove?

ssQ72. What made the child move on from the snake charmer?

Q73. Where did the child finally decide to ask his parents to let him enjoy the delights at the fair? Why?

Q74. How was the boy's reaction to the attractions of the fair different after getting separated from his parents?

Answer the following questions in detail. (100-120 words)

Q75. Describe in detail all the attractions that the child is drawn to till he gets lost in the fair.

Q76. Do you consider the child's behaviour as depicted in the story normal? Give reasons for your answer.

Q77. The story describes certain attractions which may not be so attractive to a modern child. Can you pick up some of them from the story – 'The Lost Child'.

Q78. Describe the character of the child as depicted in the story.

Q79. How does the child in the story lose himself? How far is he responsible for his predicament?

THE ROAD NOT TAKEN

Answer the following questions briefly. (40-50 words)

Q80. What is a wood? What did the narrator see in the wood? Were the paths similar?

Q81. What did the narrator hope that he would do one day? Was he sure of doing so?

Q82. Does one road seem to be more appealing than the other? Use examples from the poem to support your answer.

Q83. Why does the poet say he shall tell people "this with a sigh"? Why do you think the final stanza starts with a sigh?

Q84. Bring out the symbolism in the poem "The Road Not Taken".

Q85. The road is used as a metaphor for life in this poem. Can you think of another metaphor and explain why that has been used to describe life.



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विषय– हिन्दी

कक्षा–9

कार्यपत्रक ल्हासा की ओर

प्र01. नीचे लिखे गद्यांश को ध्यानपूर्वक पढ़कर उससे पूछे गये प्रश्नों के उत्तर लिखिए।

ऐसा ही परित्यक्त चीनी किला था। हम वहाँ चाय पीने के लिए ठहरे। तिब्बत में यात्रियों के लिए बहुत सी तकलीफें भी हैं और कुछ आराम की बातें भी। वहाँ जाति-पाँति, छुआछूत का सवाल ही नहीं है और न औरतें परदा ही करती हैं। बहुत निम्नश्रेणी के भिखमंगों को लोग चोरी के डर से घर के भीतर नहीं आने देते, नहीं तो आप बिलकुल घर के भीतर चले जा सकते हैं। चाहे आप बिलकुल अपरिचित हों, तब भी घर की बहू या सासु को अपनी झोली में से चाय दे सकते हैं। वह आपके लिए उसे पका देगी।

1. तिब्बत में यात्रियों के लिये क्या-क्या सुविधाजनक बातें हैं?
2. तिब्बती समाज की दो विशेषतायें बताइए।
3. तिब्बती लोग किनको घर के अन्दर नहीं आने देते थे?

अतिरिक्त प्रश्न

प्र02. सुमति गडे कैसे बनाते थे? वह यह काम क्यों करते थे?

प्र03. 'ल्हासा की ओर' पाठ के आधार पर सुमति की चारित्रिक विशेषताओं का उल्लेख कीजिए।

प्र04. डाँडे तथा निर्जन स्थलों पर डाकू यात्रियों का खून पहले ही क्यों कर देते हैं?

प्र05. भारत की तरह तिब्बत में भी 'अतिथि देवो भव' की प्रथा है, पाठ के आधार पर स्पष्ट कीजिए।

प्र06. तिब्बत में तत्कालीन कानून व्यवस्था भारत से किस प्रकार भिन्न थी?

प्र07. सुमति तिब्बतवासियों की धार्मिक आस्था का अनुचित लाभ किस तरह उठाते थे?

प्र08. लेखक ने अपने यात्रा-वृत्तान्त में तिब्बत की भौगोलिक यात्रा का जो चित्र खींचा है, उसे अपने शब्दों में लिखिए।

प्र09. 'ल्हासा की ओर' यात्रा—वृत्तान्त के आधार पर स्पष्ट कीजिए कि तिब्बत में महिलाओं की स्थिति अच्छी है।

प्र010. नेपाल से होकर तिब्बत जाने वाले रास्ते में जगह—जगह फ़ौजी चौकियाँ क्यों बनी थीं?

प्र011. तिब्बत में यात्रियों के लिए क्या—क्या कठिनाइयाँ थीं?

प्र012. तिब्बत की जलवायु भारत से किस प्रकार भिन्न है, और तिब्बत की धूप की क्या विशेषता है?

प्र013. 'मैं अब पुस्तकों के भीतर था' — ऐसा लेखक ने क्यों कहा?

प्र014. तिब्बत में कृषि योग्य जमीन की क्या स्थिति है?

प्र015. लेखक ने जब तिब्बत यात्रा की थी तब वहाँ कानून और सुरक्षा की स्थिति कैसी थी?

प्र016. डाँडे के देवता का स्थान कहाँ था? उसे किस प्रकार सजाया जाता था?

प्र017. कंजुर क्या है? इसकी विशेषताएँ लिखिए।

प्र018. तिब्बत में डाँडे क्या हैं? उनकी विशेषताएँ लिखिए।

प्र019. लेखक का भिखमंगों जैसा वेश तथा सुमति का साथ उसकी यात्रा में किस तरह सहायक हुआ?

प्र020. डाँडे के आस—पास के प्राकृतिक सौंदर्य का वर्णन अपने शब्दों में कीजिए।

प्र021. भिक्षु नम्से की चारित्रिक विशेषताएँ लिखिए।

मूल्यपरक प्रश्न

प्र01. ल्हासा की ओर पाठ के आधार पर अपनी किसी यात्रा का वर्णन कीजिए।

प्र02. ल्हासा की ओर पाठ के आधार पर आप अपने सामाजिक परिवेश में अतिथियों का कैसे स्वागत करते हैं। स्पष्ट करें।



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कक्षा–9

समास कार्यपत्रक

प्र01. निम्नलिखित सामासिक शब्दों के विग्रह करते हुए समास का नाम बताएं।

1. बेखटके
2. उदारहृदय
3. चौराहा
4. रातोंरात
5. मेघनाद
6. पीतांबर
7. वनवास
8. हस्तलिखित
9. राजा–रंक
10. बाकायदा
11. शरणागत
12. अकालपीड़ित
13. पाठशाला
14. पर्वतारोही
15. गंगातट
16. शरणागत
17. अकालपीड़ित
18. पाठशाला
19. पर्वतारोही
20. गंगातट
21. मोहमाया
22. चक्रपाणि
23. अष्टाध्यायी
24. आजकल
25. गंगा–यमुना
26. षटरस
27. त्रिवेणी
28. चक्रधर
29. स्नानगृह
30. नवनिधि
31. भवसागर
32. शक्तिसंपन्न
33. गुरुदक्षिणा
34. सुख–शांति

35. नवरात्रि
36. सप्तर्षि
37. भारतरत्न
38. रसोईघर
39. रात-दिन
40. पाप-पुण्य
41. आजीवन
42. यथानियम
43. प्रतिदिन
44. बस-चालक

प्र02. नीचे कुछ शब्दों के विग्रह दिए गए हैं। इनसे सामासिक शब्द बनाइए और समास का नाम भी लिखिए।

	सामासिक शब्द	समास का नाम
1. मान और अपमान
2. गिरि को धारण करता है जो अर्थात् श्री कृष्ण
3. आँखों के सामने
4. स्वर्ग को प्राप्त
5. तुलसी के द्वारा किया हुआ
6. गंगा और यमुना
7. महान है जो आत्मा
8. चार आनन का समाचार
9. लोक और परलोक
10. तीन गुणों का समूह
11. मन का योग
12. मरण तक
13. कामना पूर्ण करने वाली गाय
14. नीला कमल
15. पूरी तरह भरा हुआ
16. युद्ध के लिए भूमि
17. मानव द्वारा बनाया हुआ
18. राम और लक्ष्मण
19. नीला है जो गगन
20. आठ अध्यायों का समूह
21. घोड़े का सफर
22. राष्ट्र का पति
23. राजा और रंक
24. चार मंजिल वाला
25. नर और नारी
26. एक दाँत है जिसका अर्थात् गणेश

प्र03. नीचे कुछ सामासिक पदों का विग्रह और समास का नाम लिखा, पर उनका क्रम गलत होने से अशुद्धियाँ हो गईं। आप सामासिक शब्द का उचित विग्रह और समास का नाम लिखिए।

1. गुरुदक्षिणा	संचार के लिए घर	द्विगु समास
2. गृहगत	पीत वस्त्र हैं जिसके अर्थात् विष्णु	कर्मधारय समास
3. संचारगृह	सात पदों का समाहार	बहुब्रीहि समास
4. भाई-बहन	गुरु के लिए दक्षिणा	द्वंद्व समास

5. पीतांबर	घर को गया हुआ संप्रदान	तत्पुरुष समास
6. महात्मा	भाई और बहन कर्म	तत्पुरुष समास
7. सप्तपदी	महान है जो आत्मा संप्रदान	तत्पुरुष समास
8. ऋणमुक्त	तीन फलों का समूह	द्विगु समास
9. दिगंबर	दिशाएँ हैं वस्त्र जिनके अर्थात् जैन मुनि	द्वंद्व समास
10. अपना-पराया	पाँच आनन का समूह	अव्ययीभाव समास



Name

Subject : Maths

Class : 9

TOPIC: LINEAR EQUATION IN TWO VARIABLE

Section : A

- Through which of the following points, the graph of $y = -x$ passes?
(i) (1, 1) (ii) (0, 1) (iii) (-1, 1) (iv) none
- Through which of the following points, the graph of the linear equation $3x - 2y = 0$, passes?
(i) $\left(\frac{2}{3}, -\frac{2}{3}\right)$ (ii) $\left(\frac{2}{3}, \frac{3}{2}\right)$ (iii) $\left(\frac{1}{3}, \frac{1}{2}\right)$ (iv) none
- On which of the following equations, the point of the form $(m, -m)$ lies?
(i) $x = -m$ (ii) $x + y = 0$ (iii) $y = x$ (iv) none
- One of the solutions of the linear equation $4x - 3y + 6 = 0$ is
(i) (3, 2) (ii) (3, 2) (iii) (3, 2) (iv) none
- Which equation shows on a graph a distance of 3 units to the left of y-axis?
(i) $x = 3$ (ii) $x = -3$ (iii) $y = x$ (iv) none
- The graph of which of the following equations passes through the origin?
(i) $y = 2x + c$ (ii) $y = 2x - c$ (iii) $y = 2x$ (iv) none
- Which of the following is not a linear equation in two variables?
(i) $px + qy + c = 0$ (ii) $ax^2 + bx + c = 0$ (iii) $3x + 2y = 5$ (iv) none

Section : B

- Do the points (2, 0), (-3, 0), (0, 2), (0, -5) lie on x-axis or y-axis?
- Write the linear equation whose solution is $x = -1, y = 1$?
- The point (m, m) always lies on which of the following lines?
 $x - y = 0$ or $x + y = 2m$
- How many linear equations in x and y can have a solution as $(x = 1, y = 3)$?
- Show that $x = 1, y = 3$ satisfy the linear equation $3x - 4y + 9 = 0$.
- Look at the following graphical representation of an equation. Which of the points (0, 0) (0, 4) or (-1, 4) is a solution of the equation?
- Look at the following graphical representation of an equation. Which of the following is not its solution?
(a) (6, 0) (b) (4, 0) (c) (2, 3)
- (i) Write the equation of x-axis.
(ii) Write the equation of y-axis.
- Express $-2x + \frac{3}{2}y - 4 = 0$ in the form of $ax + by + c = 0$ and write the value of a, b and c.
- Express $2x = 5$ in the form $ax + by + c = 0$ and find the value of a, b and c.
- Write two solutions of $3x + y = 8$.

12. a. If $x = -1$ and $y = 2$ is a solution of $kx + 3y = 7$, find the value k .
- b. Show that $x = 2$ and $y = 1$ satisfy the linear equation $2x + 3y = 7$.
13. Write four solutions of $2x + 3y = 8$.
14. Draw the graph of the equation $2x - 3y = 12$. At what points, the graph of the equation cuts the x-axis and the y-axis?
15. Draw the graph of $9x - 5y + 160 = 0$. From the graph find the value of y when $x = 5$.
16. From the following graph, find four solutions of the equation representing the line AB.
17. The following observed values of x and y are thought to satisfy a linear equation.

x	6	-6
y	-2	6

- Draw the graph using the values of x and y as given in the above table.
At what points the graph of the linear equation cuts the x-axis?
18. The taxi fare in a town is Rs. 10 for the first kilometre and Rs 6 per km for the subsequent distance. Taking the distance as x km and total fare as Rs. y , write a linear equation for this information, and find the total fare for 15 km?
19. Draw the graph of the equation $x - y = 4$. From the graph, find the coordinates of the point when the graph line meets the x-axis.
20. Draw the graph $x + 2y = 6$ and from the graph, find the value of x when $y = -3$.
21. How many linear equations in x and y can have a solution as $(x = 1, y = 3)$?
22. Draw the graph of each of the following linear equations in two variables:
- (i) $x + y = 4$ ii) $x - y = 2$ (iii) $y = 3x$ (iv) $3 = 2x + y$
- 23-. Yamini and Fatima are two students of Class IX of a school, together contributed Rs. 100 towards the Prime Minister's Relief Fund to help the earthquake victims. Write a linear equation which satisfies this data. (You may take their contributions as X and y .) Draw the graph of the same.
24. Cost of a pen is two and half times the cost of a pencil. Express this situation as a linear equation in two variables.
25. In a cricket match, Raina and Dhoni together scored 198 runs. Express the statement as a linear equation in two variables.
26. Write the equation of a line which is parallel to x-axis and is at a distance of 2 units from the origin.
27. Find 'a', if linear equation $3x - ay = 6$ has one solution as $(4, 3)$.
28. The cost of a notebook is Rs. 5 less than twice the cost of a pen. Write this statement as a linear equation in two variables.
29. Total cost of a laptop and a mobile phone is Rs. 60000. Write a linear equation in two variables to represent this statement.
30. The cost of a table is Rs. 100 more than half the cost of a chair. Write this statement as a linear equation in two variables.



DR. VIRENDRA SWARUP PUBLIC SCHOOL, KALYANPUR

Session 2022-23

FUNDAMENTAL UNIT OF LIFE –THE CELL

WORKSHEET 1

Q1 Draw diagrams of plant and animal cells and label the following

1. protein factory
2. scavengers of cell
3. site of synthesis of ribosomes.
4. semi-autonomous organelle which is also known as the powerhouse of cell
5. site of protein synthesis
5. site of lipid synthesis
6. controlling center of cell
7. outer covering which is semipermeable and also responsible for the exchange of nutrients from the external environment in unicellular organism
8. part which prevents bursting of plant cell in hypotonic solution.
9. Semi-autonomous organelle in plants which is absent in animals
10. organelle responsible for modification, packaging and transport of materials
11. organelle which occupies maximum space in plant cell and provides rigidity to the cell.

Q2 Draw nucleus and label

- a. Double-layered structure which encloses the nucleus.
- b. Visibly entangled mass of thread-like structures.
- c. A darkly stained round structure inside the nucleus.
- d. Part which maintains communication between nucleus and cytoplasm.

Q 3. Draw a neat and well labelled diagram of chloroplast and mitochondria

Q 4. Give reasons for the following

- a. Chromosomes are visible at the time of cell division
- b. Mitochondria and chloroplast can synthesize some of their proteins
- c. ATP is called the energy currency of cell.
- d. Plant cells have large vacuole

Q5. Differentiate between:

1. Plasmolysis and deplasmolysis
2. Endocytosis and exocytosis
3. Cytosol and cytoplasm
4. Plasma membrane and cell wall
5. Nucleoplasm and cytoplasm
6. Diffusion and osmosis

Q6. Assess the statements given below and comment on them giving reason

- a. Endoplasmic reticulum is responsible for membrane biogenesis.
- b. Mitochondria show structural similarity with chloroplasts.
- c. Skin of your finger shrinks when you wash clothes for a long time.
- d. Fungi can withstand very dilute external medium without bursting.
- e. Water comes out of fruits if we sprinkle salt over it.

Q7. Two beakers A and B were taken. Beaker A was filled with normal water and beaker B was filled with Concentrated sugar solution. A few raisins were put in both the beakers. After some time raisins in beaker A swell up and those in beaker B shrank. When the shrank raisins from beaker B were put in beaker A, they regained their shape after sometime. Analyze the above information and write the process in your own words.

Q8 The cells of onion peel and RBC were kept separately in hypotonic solution. After sometime it was observed that the cells of RBC burst, while the cells of onion peel resist from bursting, analyse the above statement and discuss your observation in your own words.

Q9. Enlist the functions of chromosomes. Where are these located?

Q10. Relate chromatin network, chromosome and DNA.

Q11. How does chromatin material change just before cell division?

Q12. Discuss cell theory and also name the scientists who had formulated it.

Q13. Discuss the consequences of absence of golgi apparatus in living cell.

Q14. How do lysosomes originate?

Directions: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

(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.

Q.1. Assertion : A cell swells up when present in a hypotonic solution.

Reason : More water molecules enter the cell than they leave.

Q.2. Assertion : The endoplasmic reticulum which lacks ribosomes is called smooth endoplasmic reticulum

Reason : SER is mainly involved in protein synthesis.

Q.3. Assertion : Mitochondria and chloroplasts are semiautonomous organelles.

Reason : They are formed by division of pre-existing organelles and contain DNA but lack protein synthesizing machinery.

Q.4. Assertion : Plasma membrane is selectively permeable.

Reason : Plasma membrane allows some molecules to pass through it more easily than others.

Q.5. Assertion : Leucoplasts perform photosynthesis.

Reason : Chloroplasts store fats, starch and proteins.

Q.6. Assertion : Cell wall is a non-living part of the cell.

Reason : It offers protection, definite shape and support.

Q.7. Assertion : A cell membrane shows fluid behaviour.

Reason : A membrane is a mosaic of lipids and proteins.

Q.8. Assertion : A plant cell bursts if placed in water.

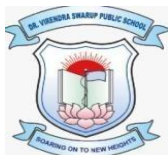
Reason : High turgor pressure causes bursting of plant cells.

Q.9. Assertion : Mitochondria are called 'powerhouses' of the cell.

Reason : Mitochondria produce cellular energy in the form of ATP.

Q.10. Assertion : Plant cells have very large vacuoles.

Reason : In plant cells, vacuoles are full of cell sap.



**DR. VIRENDRA SWARUP PUBLIC SCHOOL,
KALYANPUR SESSION -2022-23**

CLASS: 9th

**Subject: Computer Applications (165)
Holiday Homework Worksheet 1**

Q1: Tick (✓) the correct option.

1. While chatting if someone says that he is 16, you should
 - a. Believe him; he has no reason to lie
 - b. Not trust anyone you don't personally know
 - c. Give them your age
 - d. Meet up with him because he may be someone cool to hang out with
2. Who is the most common victim of online predators?
 - a. Infants
 - b. Adults
 - c. 5-9 year olds
 - d. Teenagers
3. Which among the following is not a malicious website?
 - a. Address, Phone Number and/or Email address is present.
 - b. The website address is not mis-spelled.
 - c. The https:// at the beginning of the web site.
 - d. The link shows a different address than what is mentioned.
4. When visiting sites where you win something or they are giving something away
 - a. Give your name, phone number, and address
 - b. Give parents information
 - c. Give no personal information (If it sounds too good to be true, it is)
 - d. Give whatever information they request
5. You are online and you get an instant message from your internet service provider needing your password
 - a. I give it to them because they are my ISP
 - b. I ask them why they need it
 - c. I never give my password to anyone
 - d. I log off without giving any information
6. _____ is a fraudulent practice of directing Internet users to a bogus website that mimics the appearance of a legitimate one.

- a. Virus
 - b. Malware
 - c. Pharming
 - d. Chatting
7. What is the private browsing mode in Internet Explorer/Edge called?
- a. InPrivate
 - b. Incognito
 - c. PrivateIn
 - d. All of these
8. Which among the following is not a social networking site?
- a. Facebook
 - b. Gmail
 - c. Twitter
 - d. LinkedIn
9. _____ monitors user activity and transmit that information in the background to someone else.
- a. Malware
 - b. Spyware
 - c. Adware
 - d. None of these
10. Viruses are _____.
- a. Man-made
 - b. Naturally occurring
 - c. Machine made
 - d. All of these

Q2: Fill in the blanks with the given words.

1. Unsolicited commercial email is called _____.
2. _____ your computer and smartphone with strong, up-to-date security/anti-malware software.
3. A _____ is a piece of code which is capable of replicating itself and typically has a detrimental effect, such as corrupting the system or destroying data.
4. _____ Information is submitted voluntarily in social networking sites.
5. The default privacy settings in social networking site is _____.
6. _____ refers to assigning a keyword or phrase that describes the theme of a group of articles, photos, videos, or other types of media files in social networking sites.
7. _____ of information is defined as information to which the public does not have general access.
8. _____ is a crime in which the attacker harasses a victim using electronic communication.
9. An _____ process ensures that authorized users are assigned confidential user identification and passwords.
10. A _____ is a broad term used to describe all sorts of unwanted or malicious code.

Q3: State whether the following statements are True (T) or False (F).

1. Computer “virus” is a program which is developed by human whose malicious Intent is to disrupt

the normal activity that can be done using a computer.

2. A virus can spread if you are using an infected media like Pen drives, CD, DVD, etc, which may have itself got infected from some other computer.
3. Worms are usually parasitic in nature.
4. Macro viruses infect files with .exe extension.
5. Privacy is used to verify that a user sending a message is who he or she claims to be, and to provide the receiver with the means to encode a reply.
6. Identity protection refers to the protection of personally identifiable information.
7. Confidentiality of information is defined as information to which you do not have general access.
8. Cyber safety refers to safe and responsible use of Information and Communication Technologies (ICT).
9. Facebook is a malware.
10. Polymorphic viruses have the capability of changing itself after infecting a Computer.



DR. VIRENDRA SWARUP PUBLIC SCHOOL, KALYANPUR

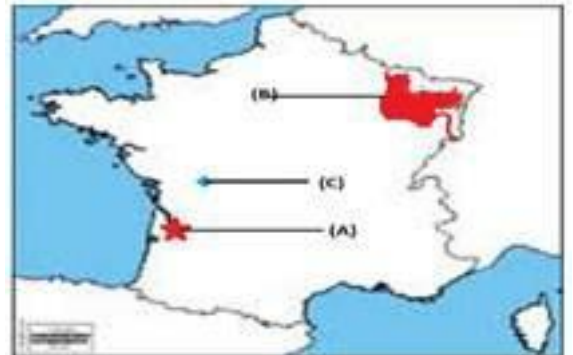
Session-2022-2023

Chapter: 1 (History): French Revolution

Class IX

Worksheet

1. Name the book that has proposed a division of power within the government?
2. What was Livre?
3. Define Tithe
4. Who was the king of France at the time of French revolution?
5. The eighteenth century France witnessed the emergence of the middle class'. Who were they and what were their ideas?
6. Describe any three causes for the fall of the Jacobin government in France.
7. What do you understand by the term "Reign of Terror"?
8. Highlight the provisions of the constitution which was introduced after the fall of Jacobin club.
9. What role did women play during the revolutionary years?
10. Three items A, B, and C are shown in the given outline map of France. Identify these items with the help of the following information and write their correct names on the lines marked on the map.
 1. Port-related to slave trade
 2. Region not affected by the great fear
 3. Epicenters of main panic movement
11. Describe the main features of the constitution of 1791. Mention any five points.
12. Write a short note on the Reign of Terror in France.
Describe any five steps taken by him to consolidate his power in France.





DR. VIRENDRA SWARUP PUBLIC SCHOOL, KALYANPUR

Session-2022-2023

Chapter: 1 (Geography): India: Size And Location

Class IX

Worksheet

1. Write down the easternmost longitude of India.
2. Write down the western most longitude of India.
3. Write down the northern most latitude of India.
4. Write down the southernmost latitude of India.
5. Name the southernmost point of India. Is it visible today?
6. Which is the most important latitude of the country? Give reason.
7. Which is most important longitude of the country? Give reason.
8. Why is the difference between the duration of day and night hardly felt at Kanyakumari but this is not so in Kashmir?
9. Why countries of the world selected their own Standard Meridians?
10. Two features A and B are marked in the given political map of India. Identify

these features with the help of the following information and write their correct names on the lines marked on the map. On the same political map locate and label the following

1. Southernmost Point of India
 2. Southernmost tip of Indian mainland
 3. Easternmost Meridian
11. The sun rises two hours earlier in eastern parts of Arunachal Pradesh as compared to Jaisalmer in the west but the watches show the same time. How does it happen?
 12. The central location of India at the head of Indian Ocean is considered to be of great significance. Why?





Dr VIRENDRA SWARUP PUBLIC SCHOOL, KALYANPUR

Session-2022-2023

Chapter: 1 (Economics): The story of village Palampur

Class IX

Worksheet

Multiple Choice Questions-

Q1. 'Bigha' and 'Guintha' are

- (a) the type of village houses
- (b) the type of hybrid seeds
- (c) the measuring units of grain
- (d) the measuring units of land area in village

Q2. Finance raised to operate a business is called

- (a) labour
- (b) enterprise
- (c) land
- (d) capital

Q3. Minimum wages for a farm labourer set by the government is

- (a) ₹80
- (b) ₹90
- (c) ₹115
- (d) ₹120

Q4. The Green Revolution introduced the farmers to

- (a) cultivation of wheat and rice
- (b) cultivation of green vegetables
- (c) cultivation of sugarcane
- (d) cultivation of forests

Q5. The small farmers constitute about _____ per cent of total farmers in India.

- (a) 50
- (b) 60
- (c) 70
- (d) 80

Q6. The new ways of farming need

- (a) less land
- (b) more capital
- (c) machinery
- (d) all of the above

Q7. The most abundant factor of production is

- (a) labour
- (b) land
- (c) machinery
- (d) all of the above

Q8. Multiple Cropping refers to :

- (a) Cultivation of wheat and rice
- (b) cultivation of two crops in alternate rows
- (c) cultivating more than one crop on the same field each year
- (d) cultivating crops and rearing animals on the same farm

Q9. Working capital stands for :

- (a) Tools, machines and buildings
- (b) raw materials and money in hand
- (c) total share capital
- (d) fixed deposits in financial institutions

Q10. Which one of the following is not an effect of modern farming?

- (a) Soil degradation
- (b) Deforestation
- (c) Decrease in groundwater
- (d) Water pollution

II. Make correct pairs between Set A and Set B:

Set A:

- (a) Agricultural labourers
- (b) Multiple cropping
- (c) Guintha
- (d) Rabi
- (e) Kharif
- (f) Yield
- (g) Irrigation
- (h) Green Revolution

Set B:

1. Growing more than one crop on same piece of land during the year.
2. Crop produced on a given piece of land during a single season.
3. Artificial application of water to the soil for growth of plants.
4. Landless farmers or those who do not own sufficient land for cultivation.
5. Autumn harvest or summer crops
6. An increase in food grain production due to the use of modern technology.
7. Spring harvest or winter crop.
8. Unit of measuring land in India.

III. Very short answer type questions-

- Q1. What are the main activities of the people in the village Palampur?
- Q2. What was the benefit of electricity in Palampur?
- Q3. Define working capital. Give examples.
- Q4. What was the main reason behind growth of three different crops in a year in Palampur?
- Q5. From where do small farmers borrow money?
- Q6. Farmers of which states were the first to use modern farming methods in India?

IV. Short answer type questions-

- Q7. What is the multiple cropping system?
- Q8. State any three efforts which can be made to increase non-farming production activities in villages.
- Q9 Define-
a) HYV seeds b) Fixed capital c) Human capital
- Q10. What are the harmful effects of chemical fertilizers?

V. Long questions-

- Q11. Which farmers have surplus wheat and are able to sell in the market? What do they do with their savings?
- Q12. Explain any five non-farm production activities undertaken in village Palampur.
- Q13. What are the different ways of increasing production on the same piece of land? Explain.
- Q14. State the main factors for production of goods and services. Explain the same with the help of a flowchart.



DR. VIRENDRA SWARUP PUBLIC SCHOOL, KALYANPUR

SESSION 2022-23

HISTORY WORKSHEET

CHAPTER- THE FRENCH REVOLUTION

Multiple Choice Questions-

1. When did Louis XVI become the king of France?
 - (a) In 1770
 - (b) In 1772
 - (c) In 1774
 - (d) In 1787
2. Consider the following statements and select the correct one-
 - (a) First estate in France demanded that each member of an estate would have one vote.
 - (b) Second estate in France demanded that each member of an estate would have one vote.
 - (c) Third estate in France demanded that each member of an estate would have one vote.
 - (d) Both second and third estate in France demanded that each member of an estate would have one vote.
3. The book 'The Spirit Of The Laws' was written by-
 - (a) John Locke
 - (b) Montesquieu
 - (c) Rousseau
 - (d) None of these
4. Consider the following statement and select the correct one-
 - (a) Tax to be paid directly to the state in French society was known as Tithes.
 - (b) Tax to be paid directly to the state in French society was known as Taille.
 - (c) Tax to be paid directly to the state in French society was known as Livre.
 - (d) Tax to be paid directly to the state in French society was known as Directory.
5. The 18th century witnessed the emergence of which new social group in France?
 - (a) Middle Class
 - (b) Nobility
 - (c) Working Class
 - (d) None of these
6. Which of the following statements defines convent?
 - (a) Building belonging to a community devoted to religious life.
 - (b) Building belonging to a community devoted to social life.
 - (c) Building belonging to a community devoted to political life.

(d) Building belonging to a community devoted to economic life.

7. An extreme situation in which the basic means of livelihood are endangered is known as-

- (a) Subsistence crisis
- (b) Struggle to survive
- (c) Economic crisis
- (d) None of these

8. Which of the following statement defines chateau?

- (a) Castle belonging to a king.
- (b) Stately residence belonging to a noble man.
- (c) Castle belonging to the Army Chief.
- (d) Both (a) and (b)

9. When did Louis XVI call an assembly of the Estates General to pass proposals for new taxes?

- (a) On 5th May, 1789
- (b) On 4th April 1789
- (c) On 5th May, 1788
- (d) On 3rd February, 1788

10. Arrange in sequence-

- i. France became a republic.
- ii. Louis XVI became the King of France
- iii. A constitution was framed to limit the powers of the king
- iv. Napoleon became the Emperor of France

Codes-

- (a) ii, iii, i and iv
- (b) ii, i, iii and iv
- (c) i, ii, iv and iii
- (d) iv, i, ii and iii

11. Match the following-

	LIST-I	LIST-II
1.	French Colonies	Bordeaux, Nantes
2.	Port Cities related to Slave Trade	Extravagant Court
3.	Palace of Versailles	Martinique, San Domingo
4.	The Broken Chains	Symbol of royal power
5.	The Bundle of Rods	Act of becoming free
6.	Sceptre	Strength lies in unity
7.	Unit of Currency	Tax levied by the Church
8.	Tithe	Livre
9.	Toulle	Tax directly to be paid to the state

Picture Based Questions-

12. What did the artist want to depict through this picture?



13. Give the special features of the painting shown below.



Fill in the blanks-

14. Louis XVI of the Bourbon Family was married to _____ princess, Marie Antoinette.

15. In France the burden of financing activities of the state through taxes was borne by the _____ estate alone.

16. In his book 'Two Treatises of Government' _____ sought to refute the doctrine of the divine and absolute right of the monarch.

17. 'What is the Third Estate' was written by _____

18. During the Reign of Terror, the _____ issued laws ordering closure of women's clubs and banning their political activities.

Correct and rewrite-

19. Slavery was finally abolished in French colonies in 1748.

20. The period from 1790 to 1794 is referred to as the Reign of Terror.

Assertion/Reason

21. (A) Women's struggle for equal political rights continued for more than two hundred years after the French Revolution.

(R) Finally in 1946 the women in France won the right to vote.

Codes-

- (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.

22. (A) After his accession, Louis XVI found an empty treasury.

(R) Long years of war had drained the financial resources of France.

Codes-

- (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.

Very Short Answer Type Questions-

23. When did the French revolution begin?

24. Louis XVI belonged to which dynasty?

25. Which family was ruling in France when the French Revolution took place?

26. Name the classes which formed the privileged estates.

27. When and where was Napoleon Bonaparte finally defeated?

28. Mention the name of the Indians who responded to the ideas coming from revolutionary France?