

SHARDA VIDYALAYA, RISALI
SUMMER VACATION H.W-(2026-27)

SUB- ENGLISH

CLASS -10

Q.(i) Objective type questions – total (25)

1. On reading the letter , the postmaster was-----

- (a) surprised (b)dismayed (c)pleased (d)puzzled

ANS-_____

2. How did the postman feel when he found the letter?

- (a) Amused (b) Amaze (c)Generous (d) Sympathy

ANS_____

3. What was the family's attitude the night after the hailstorm?

- (a) Frustrated (b)Optimistic (c)Confident (d)Happy

ANS_____

4 .Which of the following best describes the speaker's attitude towards destruction caused by ice?

- (a) Indifferent (b) fearful (c)Dismissive (d)Respectful

ANS_____

5.What is the mood of the poet now ?

ANS_____

- (a)appreciative of nature (b)thoughtful (c)happy (d)cool

6.What is the symbol represented by Hemlock tree?

- (a)Longevity (b) Togetherness (c)Healing (d) protected

ANS _____

7. In 'A LETTER TO GOD' what was the only thing the Earth needed according to Lencho?

- (a) A downpour or at least a shower (b) New seeds (c) Strong winds (d) Chemical fertilizer

ANS _____

8. What is the tone of the poem, Dust of snow ?

- (a) Transformative and uplifting (b) Sarcastic (c) Happy (d) sorrowful

ANS _____

9. How did the lencho feel when he counted the money?

- (a) Angry (b) Surprised (c) Relieved (d) Grateful

ANS _____

10. What did the hailstone resemble in the story?

- (a) Diamonds (b) Silver coins (c) Ice cubes (d) Whites

ANS _____

11. According to the Robert Frost, What would suffice if the world had to perish twice?

- (a) Ice (b) Fire (c) Wind (d) Water

ANS _____

12. In 'Fire and Ice', what does the poet hold with those who favour fire?

- (a) Because fire is more powerful than ice (b) Because he is a scientist
(c) Because he like the warmth (d) Because he taste

ANS _____

13. What is the irony present at the end of the lesson 'A letter to God'?

- (a) The hail destroyed the project (b) Because he is a scientist
(c) The people who helped him are called crooks (d) Lencho gets money

ANS _____

14. Why did the postmaster decide to reply to lencho's letter?

(a)To preserve Lencho unwavering faith (b) To shake Lencho unwavering faith

(c)He was bored (d)To show off his wealth

ANS_____

15. Where was Lencho house situated?

(a)On the crest of a low hill (b)In a deep valley

(c)By the seashore (d)In a city

ANS_____

16. The poem Fire and Ice is a highly ----- poem.

(a)Narrative (b)Symbolic (c)Humorous (d)Romantic

ANS_____

17.What does the poet mean when he says he has saved some part of a day?

(a)He escaped a dangerous situation (b)He stored some snow for later

(c)He finished his work early (d) The rest of the day was not wasted in sadness

ANS_____

18.Who does Lencho think has taken the rest of the money?

(a)God (b) His neighbours (c)The tax collectors (d) The post office employees

ANS_____

19. What is the rhyme scheme of the poem.?

(a)abab cdcd (b)Free verse (c)aba abc bcb (d)aabb cddd

ANS_____

20.In 'Dust of snow ,' which tree is mentioned by the poet ?

(a)Oak tree (b)Maple tree (c)Pine tree (d)Hemlock tree

ANS_____

21.What was the post master's first reaction when he saw Lencho letter ?

(a)He felt sad (b)He got angry (c)He broke out laughing (d)He ignored it

ANS _____

22. In 'Fire and Ice' what does that ice symbolize?

- (a) Desire and passion (b) Love and care (c) Hatred and indifference (d) Greed and lust

ANS _____

23. How much money did Lencho ask for in his first letter?

- (a) 50 pesos (b) 100 pesos (c) 1000 pesos (d) 70 pesos

ANS _____

24. In 'Dust of Snow' what does the 'dust of snow' represent?

- (a) The death of the poet (b) Healing power of nature (c) Impending danger (d) The winter

ANS _____

25. What did Lencho compare the large raindrops to?

- (a) Diamonds (b) New coins (c) Silver coins (d) Pearls

ANS _____

Q.(ii) SUBJECTIVE QUESTIONS - (TOTAL-25) (40 -50 words)

26. What is the underlying idea of the poem 'Fire and Ice'?

27. Why did the poet choose a crow and a hemlock tree instead of more pleasant symbols?

28. How did the "dust of snow" affect the poet's mood?

29. Describe the transformation of Tricki in the hospital.

30. Why did Dr. Herriot call Tricki's recovery "a triumph of surgery"?

31. What did Lencho hope for and why?

32. How did the rain change, and what happened to Lencho's fields?

33. Why was Lencho angry after counting the money?

34. What was the postmaster's reaction after reading Lencho's letter?

35. Explain the irony at the end of the story.

Q.(iii) SUBJECTIVE QUESTIONS - (TOTAL) (100-120)

36. "Humanity still exists." Evaluate this statement with reference to the postmaster's actions.

37. Describe the character of Lencho in light of his faith in God.

38. Do you think Lencho was right to call the post office employees a 'bunch of Crooks'?

39. There are two kinds of conflict in the story: between humans and nature, and between humans themselves. How are the conflicts related?

40. In what manner did Lencho's cornfield suffer damage? Did he hold any expectations of receiving assistance?

41. How far would you agree that one's positivity can bring in a spark of brightness even in adverse circumstances?

42. How does the interaction between the natural elements (crow, snow, hemlock tree) contribute to the speaker's emotional transformation?

43. Small moments can change our outlook." Discuss this statement with reference to the poem.(DUST OF SNOW)

44. What lesson can we learn about dealing with bad days from the poem Dust of snow?

45. Analyze the harmful effects of over-pampering.

WRITING SKILL QUESTIONS

46. You got an opportunity to take part in a medical camp organized by Health Club of your school in a remote village near Delhi. You are surprised to find that most of the people there have no awareness of basic health and hygiene. As a concerned citizen you decide to take up their cause and organize camps to make the villagers aware of the importance of hygiene. Taking ideas from the given notes and the unit on 'Health and Medicine' along with your own ideas, write a letter to the editor of a newspaper, in about 120 words, expressing your concern and encouraging youngsters to take part in such campaigns.

47. You are Bela / Baloo of Palanpuri. You recently visited a 'craft mela'. You were delighted to see the diversity of handicrafts, handlooms and cultural fabric of India. However, you were dismayed that not many people were there to encourage the artisans. Write a letter to the editor in 100-120 words, expressing your views on the situation and the need to support indigenous art and craft.

48. As Shobita/Shobhit Das, a responsible citizen, residing in 14-A, GVR Colony, Hoshiyarbad, you have noticed that a road crossing in your area does not have a traffic signal which leads to chaos and traffic jams during peak hours. It is also an accident-prone area. Despite writing numerous letters to the Traffic Commissioner, no action has yet been taken. Write a letter to the editor of a national daily, in about 120 words, to draw the attention of concerned authorities to address the pressing issue affecting the commuters.

49. You are Mahima/Manoj, a resident of B/20, Shastri Road, Mumbai and a volunteer with 'Clean India'. As a concerned citizen, you have noticed that Marine Lines has become heavily polluted with plastic and garbage. Write a letter to the editor of a prominent newspaper to raise

awareness about this issue. In your letter, explain how environmental damage can be reduced through the help of NGO's, individuals and government organisations.

50. The recent cyclone in the states of West Bengal and Odisha highlights the need for India to have dedicated funds that can be used to rebuild areas destroyed during natural calamities. As Devesh/Devika, write a letter in 120 words to the editor of a national daily drawing the attention of the authorities towards the need for a Natural Calamity Fund. Give suggestions on how funds for the same must be collected and how they must be utilized during natural calamities.

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PORTFOLIO

1Portfolio Task: The Duality of Faith and Humanity

Objective: To analyze the character of Lencho and the irony of human kindness.

Question Parts:

- 1. Analytical Sketch: Compare Lencho's "unshakable faith" in God with his "total lack of faith" in fellow humans. Support your answer with specific instances from the text where he interacts with the post office employees.**
- 2. Creative Reflection (Diary Entry): Imagine you are the Postmaster on the day you read Lencho's second letter calling you and your staff a "bunch of crooks." Write a diary entry (100–120 words) expressing your feelings. Will you help him again? Why or why not?.**

SHARDA VIDYALAYA, RISALI, BHILAI
VACATION HOMEWORK(2026-27)
SUBJECT-HINDI

निर्देशानुसार सही विकल्प का चयन कीजिए--

1. लोग कह रहे थे कि कल बिजली नहीं आएगी।

(क) संज्ञा उपवाक्य (ख) सर्वनाम उपवाक्य (ग) विशेषण उपवाक्य (घ) क्रियाविशेषण उपवाक्य
उत्तर:-----

2. मेरे पिताजी के पास एक घड़ी है जो बहुत पुरानी है।

(क) संज्ञा उपवाक्य (ख) सर्वनाम उपवाक्य (ग) विशेषण उपवाक्य (घ) क्रियाविशेषण उपवाक्य
उत्तर:-----

3. यह वही बच्चा है जिसे बंदर ने काटा था।

(क) संज्ञा उपवाक्य (ख) सर्वनाम उपवाक्य (ग) विशेषण उपवाक्य (घ) क्रियाविशेषण उपवाक्य
उत्तर:-----

4. हम सभी जानते हैं कि वह विद्वान है।

(क) संज्ञा उपवाक्य (ख) सर्वनाम उपवाक्य (ग) विशेषण उपवाक्य (घ) क्रियाविशेषण उपवाक्य
उत्तर:-----

5. काशवी वैसा ही करती है जैसा उसे सिखाया जाता है।

(क) संज्ञा उपवाक्य (ख) सर्वनाम उपवाक्य (ग) विशेषण उपवाक्य (घ) क्रियाविशेषण उपवाक्य
उत्तर:-----

6. 'मोहनदास, गोकुलदास सामान निकालकर बाहर रखते जाते थे।' संयुक्त वाक्य में बदलिए—

(क) मोहनदास, गोकुलदास जो सामान निकालते थे वे बाहर रखते जाते थे।

(ख) मोहनदास, गोकुलदास सामान निकालते थे और बाहर रखते जाते थे।

(ग) मोहनदास, गोकुलदास सामान बाहर रखते जाते थे और निकालते थे।

(घ) उपयुक्त सभी।

उत्तर:-----

7. 'हमें स्वयं करना पड़ा और पसीने छूट गए।' मिश्रवाक्य में बदलिए—

(क) जब हमें स्वयं करना पड़ा तब पसीने छूट गए।

(ख) हमें स्वयं करने में पसीने छूट गए।

(ग) हमारे पसीने छूट गए क्योंकि हमें स्वयं करना पड़ा।

(घ) उनके काम करने में पसीने छूट गए।

उत्तर:-----

8. निम्न में से संयुक्त वाक्य है—

(क) दर्द के कारण उससे चला नहीं जाता।

(ख) श्यामा सुबह-दोपहर के राग बखूबी गाती है।

(ग) वह नाचता है और गाता है।

(घ) मेरी माँ चाहती है कि मैं पढ़-लिख कर विद्वान बनूँ।

उत्तर:-----

9. 'मैं विद्यालय पहुँची तो घंटी बज चुकी थी।' रचना के आधार पर वाक्य है—

(क) सरल वाक्य।

(ख) मिश्रवाक्य।

(ग) संयुक्त वाक्य।

(घ) साधारण।

उत्तर:-----

10. कॉलम 1 को कॉलम 2 के साथ सुमेलित कीजिए और सही विकल्प चुनकर लिखिए—

कॉलम 1

कॉलम 2

- (1) मंदिर छोटा-सा है और जिसमें तीन मूर्तियाँ हैं।
(2) यह छोटा-सा मंदिर है जिस में तीन मूर्तियाँ हैं।
(3) इस छोटे-से मंदिर में तीन मूर्तियाँ हैं।

- (i) सरल वाक्य।
(ii) संयुक्त वाक्य।
(iii) मिश्र वाक्य।

विकल्प—

- (क) 1-(ii), 2-(i), 3-(iii)
(ख) 1-(i), 2-(ii), 3-(iii)
(ग) 1-(iii), 2-(ii), 3-(i)
(घ) 1-(ii), 2-(iii), 3-(i)

उत्तर:-----

11. पानवाला आँखों ही आँखों में क्यों हँसा?

- (i) अजीबजनक वस्तु की बात पर, उसे उसकी व्यंग्यात्मक हँसी थी।
(ii) वह हालदार साहब पर अपनी हँसी जाहिर नहीं देना चाहता था।
(iii) हालदार साहब उसकी बात सुनकर, भी मान गया था।
(iv) आँखों ही आँखों में हँसना पानवाले की बहुत पुरानी आदत थी।

उत्तर:-----

12. 'अब हालदार साहब को बात कुछ-कुछ समझ में आई।' इस पंक्ति के संदर्भ में लिखिए कि हालदार साहब क्या समझ गए?

- (i) मूर्ति के रूप के बार-बार बदल जाने का कारण।
(ii) मूर्ति की आँखों पर चमक न होने का कारण।
(iii) पानवाले और कप्तान की परस्पर दोस्ती का कारण।

उत्तर:-----

13. कथन और कारण का चयन उपयुक्त रूप से चुनिए—

कथन: ग्राहक नेताजी की मूर्ति पर लगा चमक का प्रेम से लेते हैं।

कारण: नेताजी पर प्रेम होने के कारण वह चमक उन्हें पसंद आ जाता था।

- (i) कथन और कारण दोनों गलत हैं।
(ii) कथन सही है किंतु कारण गलत है।
(iii) कथन गलत है किंतु कारण सही है।
(iv) कथन और कारण दोनों सही हैं।

उत्तर:-----

14. 'मूर्ति का चमक खोकर उतरते हुए उसमें क्षमा भी माँगता होगा' लेखक के इस अनुमान का क्या कारण रहा होगा?

- (i) नेताजी के प्रति लेखक की विश्वास से भरा व्यवहार।
(ii) नेताजी के प्रति लेखक की दिखावे से भरा आचारण।
(iii) लेखक के मन में नेताजी के प्रति तल्लीनता में है।
(iv) कप्तान की सोच के बारे में लेखक का अनुमान सर्वथा गलत होना।

उत्तर:-----

15. 'मास्टर बनाना भूल गया।' यहाँ मास्टर के संदर्भ में अनुयुक्त विकल्प है—

- (i) मूर्तिकार
(ii) मोतीलाल
(iii) कप्तान
(iv) इंचार्ज टीचर

उत्तर:-----

16. गोपियों ने अब तक धीरज क्यों धारण कर रखा था?

- i. प्रेम की मर्यादा का पालन करते हुए
ii. कृष्ण के लौटकर आने की उम्मीद में

III. समाज के नियमों को ध्यान में रखकर

विकल्प :

- (A) केवल I और III सही हैं।
- (B) केवल II और III सही हैं।
- (C) केवल I और II सही हैं।
- (D) I, II और III तीनों सही हैं।

उत्तर:-----

17. गोपियों की अभिलाषाएँ मन में ही क्यों रह गई ?

- (A) सांस्कृतिक लोक-लाज के कारण
- (B) कृष्ण के मथुरा गमन के कारण
- (C) कृष्ण के स्थान पर उद्धव के आने के कारण
- (D) प्रेमाभिव्यक्ति के लिए उचित शब्द न मिलने के कारण

उत्तर:-----

18. योग-संदेश को सुन गोपियों की क्या दशा हुई ?

- (A) उद्धव के संदेश से गोपियों का दुख कुछ कम हुआ।
- (B) श्रीकृष्ण के आने की उम्मीद को बल मिला।
- (C) गोपियाँ मानो विरह के दुख से जल उठीं।
- (D) गोपियों युवती हो श्रीकृष्ण को पुकारने लगीं।

उत्तर:-----

19. कथन — गोपियाँ उद्धव के समक्ष अपनी विरह व्यथा कह रही हैं।

कारण — उद्धव श्रीकृष्ण द्वारा भेजे गए उनके दूत हैं।

विकल्प :

- (A) कथन सही है, किंतु कारण गलत है।
- (B) कथन और कारण दोनों गलत हैं।
- (C) कथन और कारण दोनों सही हैं और कारण, कथन की उचित व्याख्या करता है।
- (D) कथन और कारण दोनों सही हैं, किंतु कारण, कथन की उचित व्याख्या नहीं करता है।

उत्तर:-----

20. मर्यादा का पालन किसने नहीं किया ?

- (A) कृष्ण ने
- (B) उद्धव ने
- (C) गोपियों ने
- (D) सुदामा ने

उत्तर:-----

21. 'उसने स्टेडियम जाकर क्रिकेट मैच देखा।' संयुक्त वाक्य में बदलिए।

- (क) जब वह स्टेडियम गया तब उसने क्रिकेट मैच देखा।
- (ख) वह स्टेडियम गया और उसने क्रिकेट मैच देखा।
- (ग) वह स्टेडियम जाता है और मैच देखता है।
- (घ) स्टेडियम जाओ और मैच देखो।

उत्तर:-----

22. 'जैसे ही बच्चे को खिलौना मिला वह चुप हो गया।' सरल वाक्य में बदलिए।

- (क) बच्चे को खिलौना मिला और वह चुप हो गया।
- (ख) वह बच्चा जिसे खिलौना मिला चुप हो गया।
- (ग) खिलौना मिलते ही वह बच्चा चुप हो गया।
- (घ) बच्चे ने खिलौना प्राप्त किया इसलिए वह च

उत्तर:-----

23. गोपियों को योग-साधना कैसी लगती है?

- (i) हारिल की लकड़ी की तरह
- (ii) हारिल पक्षी के समान
- (iii) जिसे कभी देखा न हो
- (iv) कड़वी ककड़ी के समान

उत्तर:-----

24. गोपियाँ योग का संदेश किनके लिए उपयुक्त समझती हैं?

- (i) जो श्रीकृष्ण से प्रेम नहीं करते।
- (ii) जिनका मन स्थिर नहीं है।
- (iii) जिनका मन स्थिर है।
- (iv) श्रीकृष्ण के लिए।

उत्तर:-----

25. गोपियाँ किसे व्याधि कह रही हैं?

- (i) उद्धव की बातों को
- (ii) उद्धव के योग ज्ञान को
- (iii) श्रीकृष्ण के विरह को
- (iv) श्रीकृष्ण के प्रेम को

उत्तर:-----

निम्नलिखित प्रश्नों के उत्तर 25 से 30 शब्दों में लिखिए-

26- कृष्ण किस प्रकार की राजनीति कर रहे हैं ? गोपिया कृष्ण से क्यों नाराज हैं?

उत्तर:-----

27- गोपियों का मन चलते समय किसने चुरा लिया था और अब वह क्या चाहती है?

उत्तर:-----

28- 'सूरदास के पद' के आधार पर बताइए कि उद्धव गोपियों की मनोदशा क्यों नहीं समझ सके?

उत्तर:-----

29- हारिल पक्षी की क्या विशेषता है?

उत्तर:-----

30- गोपियाँ 'तन-मन की व्यथा को किसके सहारे सहन कर रही थी? उनकी व्यथा क्यों बढ़ गई?

उत्तर:-----

31- गोपियों ने श्री कृष्ण को अपने हृदय में किस प्रकार बसाया हुआ है? 'सूरदास के पद' के आधार पर स्पष्ट कीजिए ?

उत्तर:-----

32- 'सूरदास के पद' के आधार पर कृष्ण भक्ति का महत्व बताने के लिए किन-किन प्रतीकों का प्रयोग किया गया है?

उत्तर:-----

33- 'उद्धव भले लोग आगे के पर हित डोलत धाय' पंक्ति के द्वारा गोपियाँ क्या बताना चाहती है ? 'सूरदास के पदों' के आधार पर स्पष्ट कीजिए ?

उत्तर:-----

निम्नलिखित प्रश्नों के उत्तर 25 से 30 शब्दों में लिखिए-

34- कस्बे में लगी नेताजी की मूर्ति कैसी थी? मूर्ति के चश्मे में परिवर्तन का कारण क्या था?

उत्तर:-----

35- पानवाले ने हालदार साहब को कैप्टन के बारे में क्या बताया?

उत्तर:-----

36- हालदार साहब का अचानक जीप रुकवाने का क्या कारण था? 'नेताजी का चश्मा' पाठ के आधार पर स्पष्ट कीजिए।

उत्तर:-----

37- कैटन चश्मे वाले की मृत्यु पर हालदार साहब की क्या स्थिति थी? 'नेताजी का चश्मा' पाठ के आधार पर स्पष्ट कीजिए?

उत्तर:-

38- यदि हालदार साहब को कैटन की मृत्यु के पश्चात मूर्ति पर चश्मा नहीं मिलता तो उनके मन में किस प्रकार का भाव आता? 'नेताजी का चश्मा' पाठ के आधार पर उत्तर दीजिए।

उत्तर:-

39- देशभक्ति की भावना भरी होने के कारण लोग चश्मे वाले को क्या कहते थे? 'नेताजी का चश्मा' पाठ के आधार पर बताइए?

उत्तर:-

40- 'नेताजी का चश्मा' पाठ में नगर पालिका की कार्य पद्धति पर व्यंग्य छिपा है, उसे अपने शब्दों में लिखिए।

उत्तर:-

41- 'नेताजी का चश्मा' पाठ को पढ़कर आप जो अनुभव करते हैं उसे अपने शब्दों में लिखिए तथा बताइए आज जबकि देशभक्ति मजाक की चीज होती जा रही है, ऐसे वातावरण में भी निराश होने की आवश्यकता क्यों नहीं है? तर्क सहित उत्तर दीजिए।

उत्तर:-

निम्नलिखित प्रश्नों के उत्तर 50 से 60 शब्दों में दीजिए-

42- 'माता का अंचल' नामक पाठ में लेखक ने तत्कालीन समाज के पारिवारिक परिवेश का जो चित्रण किया है उसे शब्दों में लिखिए?

उत्तर:-

43- 'माता का अंचल' पाठ में भोलानाथ के पिता की दिनचर्या पढ़ी उनकी दिनचर्या आपके पिताजी की दिनचर्या से किस प्रकार मिलती है?

उत्तर:-

44- 'माता का अंचल' पाठ में बच्चों की जो दुनिया रची गई है वह आपके बचपन की दुनिया से किस तरह भिन्न है?

उत्तर:-

45- 'माता का अंचल' पाठ में वर्णित बचपन और आज के बचपन में क्या अंतर है? क्या इस अंतर का प्रभाव दोनों बचपनों के जीवन मूल्य पर पड़ा है?

उत्तर:-

46- जब पंगत बैठ जाती है तब बाबूजी भी धीरे-धीरे जाकर जीमने के लिए बैठ जाते थे, उन्हें देखकर बच्चे बहुत हंसते थे। "लेखक के पिताजी का बच्चों के साथ खेलना उचित है?" 'माता का अंचल' पाठ के आधार पर इस कथन के पक्ष या विपक्ष में अपना मत प्रस्तुत कीजिए?

उत्तर:-

47- आप मेंहुल वर्मा हैं। आप अपने क्षेत्र में फैली गंदगी से परेशान हैं इससे आपको आने-जाने में बहुत दिक्कत होती है। इस ओर स्वास्थ्य अधिकारी का ध्यान आकृष्ट कराने हेतु किसी समाचार पत्र के संपादक को एक समाचार प्रकाशित करने का अनुरोध करते हुए 100 शब्दों में पत्र लिखिए?

उत्तर:-

48- आप संगीता कोठारी हैं। चुनाव के दिनों में राजनीतिक कार्यकर्ता घरों विद्यालयों और मार्गदर्शन चित्रों आदि पर पोस्टर लगा देते हैं। इससे लोगों को होने वाली असुविधा पर अपने विचार व्यक्त करते हुए किसी प्रतिष्ठित दैनिक समाचार पत्र के संपादक को लगभग 100 शब्दों में पत्र लिखिए।

उत्तर:-

49- आप शुभम शर्मा हैं। आपके पिता परिवार से दूर रहकर नौकरी कर रहे हैं। इसलिए उनके कुशल क्षेम जानने के लिए 100 शब्दों में एक पत्र लिखिए।

उत्तर:-

50- आप कुशल आर्य हैं। आप अपने मित्र को वार्षिक परीक्षा में प्रथम स्थान प्राप्त करने के उपलक्ष्य में बधाई देते हुए 100 शब्दों में एक पत्र लिखिए।

उत्तर:-

51- पोर्टफोलियो

उत्तर:-

SHARDA VIDYALAYA RISALI SECTOR

SUMMER VACATION H.W (2026-27)

CLASS -10 SUBJECT –MATHEMATICS

MCQ QUESTIONS

1. If $m = pq^3$ and $n = p^3q$, then HCF (m, n) =

- a) pq b) pq^3 c) p^3q^3 d) p^2q^3

2. HCF of co-primes a and b is

- a) ab b) 1 c) a d) b

3. The LCM of smallest composite number and the smallest prime number is

- a) 2 b) 1 c) 4 d) 3

4. If the LCM of a and 18 is 36 and the HCF of a and 18 is 2, then a =

- a) 2 b) 3 c) 4 d) 1

5. The smallest number which gives remainders 8 and 12 when divided by 28 and 32 respectively is..

- a) 180 b) 240 c) 204 d) 210

6. The LCM of two numbers is 1200, Which of the following cannot be their HCF?

- a) 600 b) 500 c) 400 d) 200

7. The number of zeroes of the given polynomial, $(x+1)^2(x+2)(x-3)$ is

- (a) 2 (b) 3 (c) 4 (d) 1

8. If one of the zeroes of the quadratic polynomial $(k-1)x^2 + kx + 1$ is -3 , then the Value of k is

- (a) 4 (b) -4 (c) 2 (d) -2

9. If α and β are zeroes of the polynomial $f(x) = x^2 - x - 4$, then the value of

$$\left(\frac{1}{\alpha}\right) + \left(\frac{1}{\beta}\right) - \alpha\beta$$

- (a) $\frac{15}{4}$ (b) $\frac{-15}{4}$ (c) 4 (d) 15

10. If the zeroes of the quadratic polynomial $x^2 + (a + 1)x + b$ are 2 and -3 , then

- (a) $a = -7, b = -1$ (b) $a = 5, b = -1$
(c) $a = 2, b = -6$ (d) $a = 0, b = -6$

11. The graph of the polynomial $ax^2 + bx + c$ is an upward parabola if

- (a) $a > 0$ (b) $a < 0$ (c) $a = 0$ (d) none

12. A quadratic of polynomial, whose zeroes are 5 and -8 is

- (a) $x^2 + 13x - 40$ (b) $x^2 + 4x - 3$ (c) $x^2 - 3x + 40$ (d) $x^2 + 3x - 40$

13. The number of polynomials having zeroes as -2 and 5 is

- (a) 1 (b) 2 (c) 3 (d) more than 3

14. If 2 and α are zeroes of $x^2 - 3x + 2$, then the value of α is

- (a) 2 (b) 3 (c) 1 (d) 5

15. The pair of linear equations $2x + 3y = 5$ and $4x + 6y = 10$ is

- (a) inconsistent (b) consistent (c) dependent consistent (d) none of these

16. The ratio of LCM and HCF of the least composite number and the least prime number is :

- (a) 3:2 (b) 2:7 (c) 2:1 (d) 1:2

17. There are 312, 260 and 156 students in class X, XI and XII respectively. Buses are to be hired to take these students to a picnic. Find the maximum number of students who can sit in a bus if each bus takes equal number of students:

- (a) 34 (b) 52 (c) 48 (d) 63

18. Three bells ring at intervals of 4, 7 and 14 minutes. All the three rang at 7 AM. When will they ring together again?

- (a) 7:28 AM (b) 7:54 AM (c) 7:32 AM (d) 7:40 AM

19. 8 chairs and 5 tables cost Rs 10,500, while 5 chairs and 3 tables cost Rs 6,450. The cost of each chair will be.

- (a) 750 (b) 600 (c) 850 (d) 900

20. Sum of two numbers is 35 and their difference is 13, then the numbers are.

- (a) 24 and 12 (b) 24 and 11 (c) 12 and 11 (d) None of these

21. The value of k for which the system of equation $kx - y = 2$, and $6x - 2y = 3$ has a unique solution is.

- (a) Not equal to 3 (b) Not equal to (-3) (c) Not equal to 0 (d) Not equal to 1

In the following questions, a statement of assertion (A) is followed by a statement of Reason (R). Choose the correct answer out of the following choices.

- (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. Assertion (A): For no value of n , where n is a natural number, the number $6n$ ends with the digit zero.

Reason (R): For a number to end with digit zero, its prime factors should have 2 and 5.

23. Assertion (A): If LCM of two numbers is 2475 and their product is 12375, then their HCF is 5.

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

(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

24. Assertion (A): $x^2 + 4x + 5$ has two real zeroes.

Reason (R): A quadratic polynomial can have at most two zeroes.

25. Assertion (A): If the sum of the zeroes of the quadratic polynomial $x^2 - 2kx + 8$ are is 2 then value of k is 1.

Reason (R): Sum of zeroes of a quadratic polynomial $ax^2 + bx + c$ is $-b/a$

VERY SHORT ANSWER QUESTIONS:

Q26 In a school, there are two sections of class X. There are 40 students in the first section and 48 students in the second section. Determine the minimum number of books required for their class library so that they can be distributed equally among students of both sections.

Q27 Find the greatest number which divides 85 and 72 leaving remainders 1 and 2 respectively.

Q28 If α and β are the zeros of the polynomial $5x^2 - 7x + 1$ then find the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$.

Q29. If α and β are the zeros of the polynomial $x^2 - 4\sqrt{3}x + 3$, then find the value of $\alpha + \beta - \alpha\beta$.

Q30. Solve for x and y : $2x + 3y = 7$; $4x + 3y = 11$

SHORT ANSWER QUESTIONS:

Q31. Given that $\sqrt{3}$ is an irrational, prove that $5 + 2\sqrt{3}$ is an irrational number.

Q32. Prove that $(\sqrt{2} + \sqrt{3})^2$ is irrational number, given that $\sqrt{6}$ is an irrational number.

Q33. Find HCF and LCM of 26, 65 and 117 using prime factorization.

Q34. Find the zeros of the quadratic polynomial $6x^2 - 3 - 7x$ and verify the relationship between zeros and coefficients.

Q35. Find the zeros of the quadratic polynomial $x^2 - 15$ and verify the relationship between zeros and coefficients.

Q36. Solve the following pair of linear equations graphically $x + 3y = 6$, $2x - 3y = 12$

Q37. Find the value of k such that the following pair of linear equations has unique solution. Solve the equations. $4x + ky + 8 = 0$, $2x + 3y + 7 = 0$

Q38. Explain why $(7 \times 13 \times 11) + 11$ and $(7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1) + 3$ are composite numbers.

Q39. Find HCF and LCM of 378, 180 and 420 by prime factorization. Verify that $HCF \times LCM =$ product of two numbers.

Q40. Four bells toll at an interval of 8, 12, 15 and 18 seconds respectively. All the four begin to toll together. Find the number of times they toll together in one hour excluding the one at the start.

Q41. If α and β are the zeros of a polynomial $2x^2 - 3x + 1$ then find the quadratic polynomial whose zeros are 3α and 3β .

LONG ANSWER QUESTIONS:

Q42.

If α, β are zeroes of polynomial $p(x) = 5x^2 + 5x + 1$ then find the value of
(i) $\alpha^2 + \beta^2$ (ii) $\alpha^{-1} + \beta^{-1}$ (iii) $\alpha^3 + \beta^3$

Q43. Solve the following system of equations graphically for x and y : $3x + 2y = 12$; $5x - 2y = 4$. Find the co-ordinates of the points where the lines meet the y -axis.

Q44. The sum of the digits of a two digit number is 9. The number obtained by reversing the order of digits of the given number exceeds the given number by 27. Find the given number. Find the values of a and b for which the following pair of linear equations has infinitely many solutions: $2x + 3y = 7$; $(a + b)x + (2a - b)y = 21$

Q45. The sum of the digits of a two digit number is 9. The number obtained by reversing the order of digits of the given number exceeds the given number by 27. Find the given number.

CASE STUDY QUESTIONS

Q46. February 14 is celebrated as International Book Giving Day and many countries in the world celebrate this day. Some people in India also started celebrating this day and donated the following number of books of various subjects to a public library: History = 96, Science = 240, Mathematics = 336.

These books have to be arranged in minimum number of stacks such that each stack contains books of only one subject and the number of books on each stack is the same.

Based on the above information, answer the following questions:

- (i) How many books are arranged in each stack?
- (ii) How many stacks are used to arrange all the Mathematics books?
- (iii) Determine the total number of stacks that will be used for arranging all the books.

OR

(iii) If the thickness of each book of History, Science and Mathematics is 1.8 cm, 2.2 cm and 2.5 cm respectively, then find the height of each stack of History, Science and Mathematics books.

Q47. Three sets of English, Hindi and Mathematics books have to be stacked in such a way that all the books are stored topic wise and the height of each stack is the same. The number of English books is 96, the

number of Hindi books is 240 and the number of Mathematics books is 336. Assuming that the books are of the same thickness.



- (i) Find the number of stacks of Hindi books?
- (ii) Find the number of stacks of English books?

OR

Find the number of stacks of Mathematics books?

- (iii) What is the number of books that can be stored in each stack?

Q48. Teaching Mathematics through activities is a powerful approach that enhances students' understanding and engagement. Keeping this in mind, Ms. Muktha planned a prime number game for class 5 students. She announces the number 2 in her class and asked the first student to multiply it by a prime number and then pass it to second student. Second student also multiplied it by a prime number and passed it to third student. In this way by multiplying to a prime number, the last student got 173250. Now, Muktha asked some questions as given below to the students:

- (i) What is the least prime number used by students?
- (ii) How many students are in the class?

OR

What is the highest prime number used by students?

- (iii) Which prime number has been used maximum times?

Q49. Quadratic polynomial can be used to model the shape of many architectural structures in the world. The Lusitania Bridge is a bridge in Merida, Spain. The bridge was built over the Gadiana River in 1991 by a Spanish consortium to take the road traffic from the Romano bridge. The architect was Santiago Calatrava. The bridge takes its name from the fact that Emerita Augusta (present day Merida) was the former capital of Lusitania, an ancient Roman province.



Based on the above information, answer the following questions.

- (i) If the Arch is represented by $10x^2 - x - 3$, then find its zeroes.
- (ii) Find the quadratic polynomial whose sum of zeroes is 0 and product of zeroes is ?

OR

- (ii) Find the sum and product of zeroes of the polynomial $\sqrt{3}x^2 - 14x + 8\sqrt{3}$.

Q50. The figure given alongside shows the path of a diver, when she takes a jump from the diving board. Clearly it is a parabola. Annie was standing on a diving board, 48 feet above the water level. She took a dive into the pool. Her height (in feet) above the water level at any time 't' in seconds is given by the polynomial h(t) such that $h(t) = -16t^2 + 8t + k$.



- (i) What is the value of k ?
- (ii) At what time will she touch the water in the pool?

OR

- (ii) Rita's height (in feet) above the water level is given by another polynomial p(t) with zeroes 1 and 2. Then find p(t)

Sharda Vidyalaya ,Risali Sector
Summer Vacation Home work
Class -10th Subject- Science

Physics:

Multiple Choice Questions (MCQs):

1. Convex mirrors are used as rear-view mirrors in vehicles because:
A) They form real images
B) They form an erect and larger image
C) They have a wider field of view and form erect images
D) They are cheap

2. What type of image is always formed by a convex mirror?
A) Real, inverted, and diminished
B) Virtual, erect, and magnified
C) Real, erect, and diminished
D) Virtual, erect, and diminished

3. A ray of light passing through the centre of curvature of a concave mirror, after reflection, will:
A) Pass through F
B) Become parallel to the principal axis
C) Retrace its path
D) Pass through the pole

4. Which mirror is used by dentists to see a magnified image of teeth?
A) Convex mirror
B) Concave mirror
C) Plane mirror
D) Both convex and concave

Assertion (A) and Reason (R) Questions:

For the following questions, use these options:

- (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.

5. Assertion (A): The image formed by a plane mirror is always virtual and erect.
Reason (R): The reflected rays from a plane mirror actually meet behind the mirror

6. Assertion (A): A concave mirror is used as a shaving mirror.
Reason (R): It forms a magnified and erect image when the object is placed close to the mirror.

7. Assertion (A): A concave mirror always forms a virtual image.
Reason (R): It always diverges the light rays.

8. Assertion (A): Convex mirrors are used as rear-view mirrors in vehicles.
Reason (R): They provide a wider field of view.

Very Short Answer Question:

9. Write any two applications of concave mirror.

10. Write application of convex mirror.

Short Answer Question:

11. Draw ray diagram for concave mirror when object is placed in between centre of curvature (C) and focus (F). Also write the nature of image.

12. Draw a table that summarizes the Image Formation by a Concave Mirror for different object positions.

Case Based Question-I:

13. In a professional beauty salon, a stylist uses a large concave mirror to help clients see detailed views of their face. A customer observes that when she sits very close to the mirror, her face appears upright and magnified. As she slowly moves away, the image becomes larger for a moment, then suddenly flips upside down and starts getting smaller. The stylist explains that this happens due to the changing position of the object relative to the mirror's focus and centre of curvature. Based on above statement give the answer of following:

1. When the customer is very close to the mirror, the image formed is:

- A. Real, inverted, diminished
- B. Virtual, erect, magnified
- C. Real, erect, magnified
- D. Virtual, inverted, diminished

2. The image becomes inverted when the object moves beyond:

- A. Pole
- B. Focus
- C. Centre of curvature
- D. Principal axis

3. Just after crossing the focus, the image is:

- A. Highly diminished
- B. Same size
- C. Highly enlarged
- D. Invisible

4. As the object moves far beyond the center of curvature, the image becomes:

- A. Larger and closer
- B. Smaller and nearer focus
- C. Same size at C
- D. Virtual and erect

OR

The magnification for a virtual image in this case is:

- A. Negative
- B. Zero
- C. Positive
- D. Equal to -1

Case Based Question-II:

14. A car driver depends on a convex mirror as a rear-view mirror while driving on a busy highway. He observes that vehicles behind him always appear smaller but upright. Even distant vehicles are visible, allowing him to judge traffic conditions and make safe decisions. However, he is aware that the actual distance of vehicles is different from how they appear in the mirror. Based on above statement give the answer of following:

1. The nature of the image formed by the mirror is:

- A. Real and inverted
- B. Virtual and erect
- C. Real and erect
- D. Virtual and inverted

2. The size of the image compared to the object is:

- A. Enlarged
- B. Same size
- C. Diminished
- D. Highly enlarged

3. The image is formed:

- A. In front of the mirror
- B. Behind the mirror
- C. At infinity
- D. At centre of curvature

4. The main advantage of using this mirror is:

- A. It magnifies objects
- B. It produces real images
- C. It provides a wider field of view
- D. It inverts images

Long Answer Question:

15. Explain the formation of images by a concave mirror for different positions of an object. Describe the nature, position, and size of the image when the object is placed:

- At infinity
- Beyond the centre of curvature (C)
- At the center of curvature (C)
- Between C and focus (F)
- At focus (F)
- Between focus (F) and pole (P)

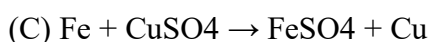
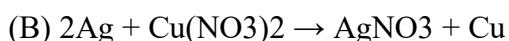
Support your answer with ray diagrams.

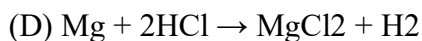
16. Describe the image formation by a convex mirror. Why does a convex mirror always form a virtual, erect, and diminished image? Explain this with proper ray diagrams and reasoning.

Chemistry:

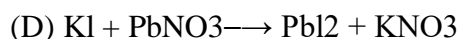
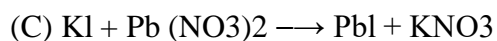
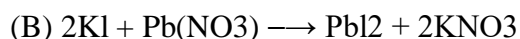
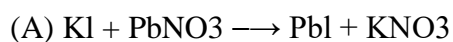
Multiple-choice questions.

1. Which of the following reactions is not correct





2. When aqueous solutions of potassium iodide and lead nitrate are mixed, an insoluble substance separates. The balanced chemical equation for the reaction involved is



3. Barium chloride, on reacting with ammonium sulphate, forms barium sulphate and ammonium chloride. Which of the following correctly represents the type of reaction involved?

i. Displacement reaction

ii. Precipitation reaction

iii. Combination reaction

iv. Double displacement reaction

(A) i only

(B) ii only

(C) iv only

(D) ii and iv only

4. In the double displacement reaction between 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

Assertion and Reason type questions

The following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option 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.

5. Assertion (A): Calcium carbonate, when heated, gives calcium oxide and water.

Reason (R): On heating calcium carbonate, a decomposition reaction takes place.

6. Assertion (A): AgBr is used on photographic and X-ray film.

Reason (R): AgBr is photosensitive, and changes to Ag and bromine in the presence of sunlight undergo a decomposition reaction.

7. Assertion (A): A lead nitrate on thermal decomposition gives lead oxide, brown coloured nitrogen dioxide and oxygen gas.

Reason (R): Lead nitrate reacts with potassium iodide to form yellow ppt. of lead iodide, and the reaction is a double displacement as well as a precipitation reaction.

8. Assertion (A): Brown fumes are produced when Lead nitrate is heated

Reason (R): Nitrogen dioxide gas is produced as a by-product due to the decomposition of Lead nitrate.

Very short type questions.

9. Write a balanced chemical equation for the following reaction.

- Hydrogen sulphide gas burns in air to give water and Sulphur dioxide.
 - Natural gas burns in air to form carbon dioxide and water.
-

10. What is observed when a solution of potassium iodide is added to a solution of Lead nitrate? Name the type of reaction; write a balanced chemical equation for the reaction.

11. What is observed after about 1 hour of adding the strips of copper and aluminium separately to ferrous sulphate solution filled in two beaker? Name the reaction if any change in colour is noticed .Also, write chemical equation for reaction.

Short type of questions

12. a. Write one example for each of the decomposition reactions carried out with the help of

(I) Electricity, (ii) Heat, (iii) Light

b. Which of the following statements is correct and why? Copper and displace silver from silver nitrate solution, and silver can displace copper from copper sulphate solution.

13. Balance the following chemical equations and identify the type of reaction they represent.

- $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$
 - $\text{NH}_3 + \text{O}_2 \rightarrow \text{NO} + \text{H}_2\text{O}$
 - $\text{Na}_2\text{O} + \text{H}_2\text{O} \rightarrow \text{NaOH}$
-

Case-Based Question

14. A student performs a sequence of reactions using an unknown metal M.

Observations- When M is added to dilute H_2SO_4 , a gas G is released, which burns with a pop sound. The remaining solution S1 is pale green. When NaOH is added to S1, a green precipitate P is formed. On heating P, a reddish-brown solid R is obtained.

- Identify metal M
- What is gas G give its test?
- Write the reaction for the formation of green precipitate P.
- Write a balanced equation for the formation of R on heating P.

e. What type of reaction occurs when p is heated?

15. Read the source below and answer the following questions.

Shruti performed an experiment in laboratory where she burned a magnesium ribbon in the presence; of oxygen .She noticed, that the ribbon burned with bright white flame and the white powder was formed as a product.

- Identify the chemical reaction-taking place and write balanced chemical equation.
 - Explain why magnesium needs to be cleaned with sandpaper before burning.
 - Identify and explain the type of reaction occurring in this experiment.
-

Long answer questions

16. Identify the unknown and complete the reaction for each case (i) Identify X, Y, Z (W if present)

(ii) Write balanced chemical equations and (iii) state the type of reaction.

(A). A shiny metal X burns in air with dazzling white flame to form a white powder Y.

(B). A white solid X reacts vigorously with water, producing a slurry Y. When carbon dioxide Z is passed through the clear solution of Y, it turns milky.

(c) A white solid X kept in sunlight slowly turns grey, forming a grey solid Y and releasing a pale green gas Z. (X is used in photographic materials).

(D) A grey metal X is placed in a blue solution of Y. The blue color fades, and a reddish-brown deposit Z appears.

17. Write the balanced chemical equations for the following reactions and identify the type of reaction in each case.

(a) In the thermite reaction, iron (III) oxide reacts with aluminum and gives molten iron and aluminum oxide.

(b) Magnesium ribbon is burnt in an atmosphere of nitrogen gas to form solid magnesium nitride.

(c) Chlorine gas is passed in an aqueous potassium iodide solution to form a potassium Chloride solution and solid iodine.

(d) Ethanol is burnt in the air to form carbon dioxide and water, and releases heat.

Biology:

Multiple-choice questions.

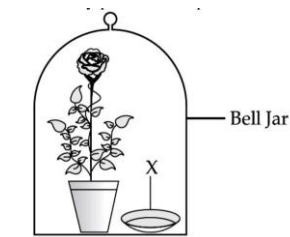
1. If salivary amylase is lacking in the saliva, which of the following events in the mouth cavity will be affected?

- Proteins breaking down into amino acids
- Starch breaking down into sugars

(c) Fats breaking down into fatty acids and glycerol

(d) Absorption of vitamins

2. Observe the experimental setup shown below. Name the chemical indicated as 'X' that can absorb the gas which is evolved as a by-product of respiration.



(a) NaOH

(b) KOH

(c) Ca(OH)₂

(d) K₂CO₃

3. Which is the correct sequence of parts in the human alimentary canal?

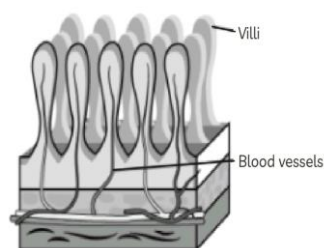
(a) Mouth → stomach → small intestine → oesophagus → large intestine

(b) Mouth → oesophagus → stomach → large intestine → small intestine

(c) Mouth → stomach → oesophagus → small intestine → large intestine

(d) Mouth → oesophagus → stomach → small intestine → large intestine

4. The image below shows a cross-section of small intestine.



What will likely happen if the number of villi increases in the intestine?

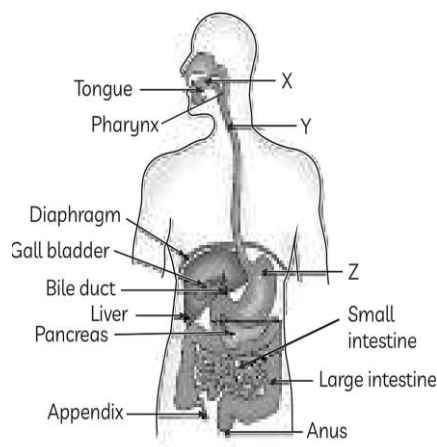
(a) Increase in the absorption of food.

(b) Fast elimination of waste from the body.

(c) Increase in flow of blood in the small intestine.

(d) Fast breakdown of larger food particles into smaller ones.

5. The diagram below shows the human digestive system.



Identify the organ, where the digestion of food starts in the digestive system.

- (a) X, due to the presence of saliva.
- (b) X, that moves the food in gut.
- (c) Z, that release juices for fat breakdown.
- (d) X, which helps in mixing food with digestive juices.

Assertion and Reason type questions

The following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option 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.

6. **Assertion (A):** The inner lining of the small intestine does not have numerous finger-like projections called villi.

Reason (R): The villi increase the surface area for absorption.

7. **Assertion (A):** Hydrochloric acid helps in the digestion of food in the stomach.

Reason (R): Hydrochloric acid creates an acidic medium to activate protein digesting enzymes.

8. **Assertion (A) :** Bile is essential for digestion of lipids.

Reason (R) : Bile juice contains enzymes.

9. **Assertion (A) :** Carbohydrate digestion mainly takes place in small intestine.

Reason (R) : Pancreatic juice contains the enzyme lactase.

Very short type questions.

10. The pancreas of a person suddenly stopped functioning. How will digestion be affected in such a person?

11. Write the function of the following in the human alimentary canal:

- (A) Saliva (B) HCl in stomach (C) Bile juice (D) Villi

Short type questions.

12. a) Why is small intestine in herbivores longer than in carnivores?

(b) What will happen if mucus is not secreted by the gastric glands?

13. Jeet's mother often complains about indigestion and hyperacidity in the stomach and she takes antacid to get relief from the pain.

(A) (i) Over production of which substance is the probable reason for such complaint?

(ii) Why is the production of this substance necessary?

(B) (i) Does this substance serve any other function for the stomach?

(ii) How does the stomach prevent itself from the harmful effects of over production of this substance?

(C) (i) How does the stomach regulates the flow of partially digested food?

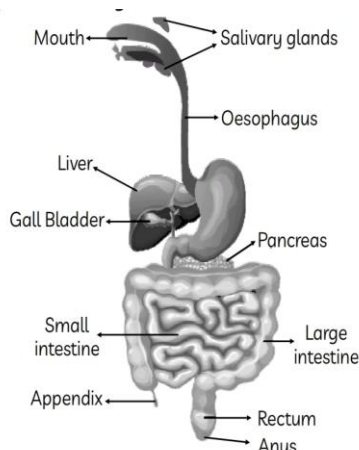
(ii) Which part of the alimentary canal receives the food from the small intestine?

Case based Question -I:

14. In 2015, one of the popular noodles brands was banned in India since it was concluded to be unhealthy to eat. Though the ban was removed after some time, it triggered debates which continue till date in some groups of people. Who decides if a packed food product can be sold in the market or not? In India, the Food Safety and Standards Authority of India (also known as FSSAI) is responsible for protecting people's health by supervising the quality of food. FSSAI regulates the quality of packed food products by issuing rules and guidelines which each manufacturer needs to comply with. For example, as per the FSSAI rules, each packed food item must have a green dot or red dot to indicate whether it is a veg or non-veg product. Another regulation ensures that packed food items have labels showing the nutritional value of the food product including the information on how much energy can one derive from that food product. The food's energy value is measured in this unit called calorie. If a food packet says that 100 g of that food would give us 400 calories, does our body get the full 400 calories or less than that? Note that some energy is spent in digesting the food as well. Digestion is essential for extracting the energy from the food.

(A) Figure given below shows the different organs of the human body, which take part in the digestion of food.

In which organ (if any) of the digestive system does the food get converted to usable energy? How is the energy transferred from that part to the rest of the body?



(B) There are various muscles present in the human digestive system known as sphincters. Two examples of those are given below:

(i) Pyloric sphincter - At the junction of stomach and small intestine

(ii) Anal sphincter - At the anus

Give ONE most likely consequence of malfunctioning of each of these sphincters.

(C) Table below shows the average pH levels of different organs of the digestive system.

Organs	pH level
Mouth	6.5 to 7.5
Oesophagus	7
Stomach	1 to 2
Liver	7 to 7.5
Pancreas	8 to 8.3
Small intestine	6.5 to 7
Large intestine	5.5 to 7

(i) Stomach secretes acidic juices with pH having 1 to 2 but lining of the stomach rarely gets corroded. Explain.

(ii) The pH of the pancreas is 8 to 8.3, it means pancreas secretes alkaline juices in the small intestine. How is the alkaline nature of pancreatic juices helpful in the digestion of food?

Case based Question -II:

15. Not all plants carry out photosynthesis by the same mechanism. In most plants, photosynthesis depends directly on the gaseous carbon dioxide that diffuses into the leaf through the stomata. However, some plants such as pineapple have the ability to store carbon dioxide in the vacuoles of the leaf cells as part of a complex carbon compound. This complex compound is transported to the chloroplasts and releases carbon dioxide when required, for photosynthesis to occur.

(A) This special photosynthesis mechanism is believed to have evolved as an adaptation to conserve water for survival in dry conditions.

(i) Which process in the plants does this photosynthesis mechanism minimise to help the plant survive in dry conditions?

(ii) How is the ability to store carbon dioxide as a complex compound likely to help minimise the process referred to in (i)?

(iii) When are such plants likely to take in carbon dioxide from the environment?

(iv) What is the source of oxygen produced during the process of photosynthesis?

Long Answer Type Questions:

16. (i) Draw a well-labelled diagram of the human digestive system.

(ii) Describe the role of following in digestion.

- a) Bile b) Salivary amylase c) HCl

SHARDA VIDYALAYA, RISALI SECTOR
SUMMER VACATION HOME WORK 2026-27
SUBJECT- SOCIAL SCIENCE

CLASS-X

NOTE- Write all the questions/answers in your class work copy.

1. A researcher is examining a soil type which is formed by the weathering of volcanic rock and is rich in minerals. Which one of the following soil is it?

- a) Laterite soil b) Alluvial soil c) Black soil d) Desert soil

Ans. _____

2. Identify the crop with the help of information given in the box-

*This crop is a major cash crop in India
*It is cultivated mainly in the states of Karnataka and Tamil Nadu
* It is known for its aroma

- a) Tea b) Coffee c) Jute d) Cotton

Ans. _____

3. Assertion (A) - The French speaking community was rich in comparison to Dutch speaking community in Belgium.

Reason (R)- Dutch speaking community got the benefit of economic development and education much later.

Alternatives-

- 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 and 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

Ans- _____

4. Which of the following is an example of horizontal power sharing in Indian democracy?

- a) Division of power between central and state governments.
b) Division of power between Rural and Urban governments.
c) Division of power among Administration, Judiciary and Army.
d) Division of power among Legislative, Executive and Judiciary.

Ans. _____

5. In which of the following states is terrace cultivation practiced?

- a) Punjab b) Plains of Uttar Pradesh c) Uttarakhand d) Haryana

Ans. _____

6. Which of the following is not a measure for soil conservation?

- a) Strip cropping b) Terrace cultivation c) Shelter belts d) Overdrawing of ground water

Ans. _____

7. Match the following-

	COLUMN I	COLUMN II
A	Plain area	i) 3028 million sq.km
B	Total geographical area	ii) 43 percent
C	National forest policy	iii) 27 percent
D	Plateau region	iv) 1952

- a) A –ii, B-I, C-iv, D-iii b) A-i, B-ii, C-iv, D-iii c) A-iii, B-iv, C-i, D-iii d) A-iv, B-iii, C-ii, D-i

Ans. _____

8. Which of the following soil has self-aeration capacity?
 a) Alluvial soil b) Red soil c) Black soil d) Mountain soil
 Ans. _____
9. Assertion (A) - Red soil is red in colour
 Reason (R)- These soil develop a reddish colour due to diffusion of iron in crystalline and metamorphic rocks.
 Alternatives-
 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 and 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
 Ans. _____
10. Which of the following countries does not share its boundary with Belgium?
 a) France b) Netherlands c) Sweden d) Luxembourg
 Ans. _____
11. Belgium has worked on the principal of _____.
 a) Majoritarianism b) Accommodation c) Dictatorship d) Monarchy
 Ans. _____
12. Srilanka is an island nation, just a few kilometers from the southern coast of _____.
 a) Goa b) Kerala c) Tamil Nadu d) Lakshadweep
 Ans. _____
13. When power is shared among different organs of the government it is called as _____.
 a) Horizontal distribution of power b) Community government
 c) Coalition government d) Federal distribution of power
 Ans. _____
14. An act of recognizing Sinhala as the official language was signed in _____.
 a) 1942 b) 1956 c) 1954 d) 1948
 Ans. _____
15. Power struggle demanding separate Eelam was launched by –
 a) Sinhalese community b) Dutch community c) Tamilian community d) French community
 Ans. _____
16. Which language is dominantly spoken in Belgium?
 a) Spanish b) Dutch c) French d) Italian
 Ans. _____
17. Assertion (A) – Tyranny of majority is highly desirable.
 Reason (R)- Even non-democratic countries prefer democracy.
 Alternatives-
 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 and 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
 Ans. _____
18. What was the central theme of Frederic Sorrieu's series of four prints created in 1848?
 a) The absolute power of European monarchs b) The unification of Italy
 c) A world made up of 'democratic and social Republics' d) The French colonial expansion
 Ans. _____
19. In Sorrieu's vision, what do the shattered remains of symbols on the ground represent?
 a) The triumph of democracy b) The remnants of absolutist institutions
 c) The failure of the French Revolution d) The power of the church
 Ans. _____

33. Distinguish between prudential and moral reasons for power sharing.

Ans-_____

34. How can power be shared among political parties and pressure groups?

Ans-_____

35. What measure was adopted by the democratically elected government of Sri Lanka to establish Sinhala Supremacy?

Ans-_____

36. Indiscriminate use of resources has led to numerous problems. Justify the statement

Ans-_____

37. Explain any 3 factors responsible for the formation of soil

Ans-_____

38. Mention any 3 characteristics of black soil.

Ans-_____

39. `Resource planning has received importance in our country like India`. Justify the statement with the help of a suitable example.

Ans-_____

40. Distinguish between renewable and non-renewable resources.

Ans-_____

Long answer type questions- Answers to each question should not exceed 120 words

41. `Human activities responsible for land degradation`. Explain the statement.

Ans-_____

42 33% of the total land area of a country should be under forests. Justify the statement highlighting the environmental values of forest

Ans-_____

43. Explain the concept of Sustainable Development and why it is necessary for our survival.

Ans-_____

44. Classify soils of India based on their formation and characteristics. Describe Alluvial and Mountain soil.

Ans-_____

45. Distinguish between red and laterite soils stating 5 points of distinction

Ans-_____

46. Why is power sharing good for democracy? Give any three suitable arguments

Ans-_____

47. Why was it felt earlier that undivided political power was better? What changed this notion and why?

Ans-_____

48. "Power sharing is desirable not only for reducing conflict but also for better outcomes." Justify the

statement.

Ans- _____

49. Till mid-18th century there was know national state in Europe. Support the statement with examples.

Ans- _____

50. `The first clear expression of nationalism come with the French revolution in 1789. ` Examine the statement.

Ans- _____

Portfolio activity

1. Write a detailed report on Rio de Janeiro Earth summit

2. Prepare a file

Topic-CONSUMER AWARENESS

Project format

1. Cover page

2. Acknowledgement

3. Index

4. Main project

5. Conclusion

SHARDA VIDYALAYA, RISALI SECTOR
SUMMER VACATION HOME WORK (2026-27)

CLASS- X

SUBJECT- AI/ IT

NOTE- Write all the questions and answers in the class work copy. Print out will not be accepted.

OBJECTIVES:

- 1. Communication skills are very important in any _____.**
a. Occupation b. Business c. Both a) and b) d. None of the above
- 2. Effective communication helps us _____ properly.**
a. Read b. Write c. Listen d. All of the above
- 3. 'Communication' is derived from the Latin word _____, which means 'to share'.**
a. Communicate b. Communication c. Commitment d. None of the above
- 4. _____ and _____ communication is very important in work and business environments.**
a. Listening and Writing b. Clear and Concise c. Both a) and b) d. None of the above
- 5. To communicate effectively, you must be able to _____ properly.**
a. Read b. Write c. Speak and Listen d. All of the above
- 6. 'Communication' is derived from the _____ word.**
a. Latin Word b. Devanagari Word c. Latin Work d. None of the above
- 7. The verbal communication process includes _____.**
a. Sounds b. Words c. Speech d. All of the above
- 8. Sharing the information with the help of _____ is known as verbal communication.**
a. Sign b. Word c. Visual d. Writing
- 9. _____ ability to express our feelings in words.**
a. Listening b. Writing c. Speaking d. None of the above
- 10. Advantages of verbal communication.**
a. Easy and Quick b. Quick response c. Exchange ideas d. All of the above
- 11. _____ Communication takes place between two individuals and is therefore a one-on-one discussion. It can be formal or informal.**
a. Interpersonal Communication b. Written Communication
c. Small Group Communication d. Public Communication
- 12. The sharing of information through the words is known as _____ .**
a. Non-Verbal communication b. Visual Communication
c. Verbal communication d. Sign language
- 13. _____ This type of communication is based on writing words. It can be letters, circulars, reports, manuals, SMS, social media chats, etc. It can be between two people or between groups of people.**
a. Interpersonal Communication b. Written Communication
c. Small Group Communication d. Public Communication

14. Depending on the words used, sometimes the meanings can be confusing and difficult to comprehend if the right words are not used, is an example of _____ communication.

- a. Verbal Communication
- b. Non – Verbal Communication
- c. Visual Communication
- d. None of the above

15. Which of the following describes oral communication?

- a. Newspapers
- b. Letters
- c. Phone call
- d. E-mail

16. Why do we use e-mails?

- a. To communicate with a large number of people at once.
- b. To share documents and files.
- c. to communicate with each other in real-time
- d. To keep a record of communication.

17. _____ communication refers to the process of exchanging information or messages without using any spoken or written words.

- a. Verbal Communication
- b. Non – Verbal Communication
- c. Visual Communication
- d. None of the above

18. When you raise your hand to greet or say goodbye, or point at someone, these are examples of _____.

- a. Expressions
- b. Gestures
- c. Written
- d. None of the above

19. When the sender's message is received differently than how it was intended, _____ barriers occur.

- a. Cultural Barriers
- b. Organizational Barriers
- c. Interpersonal barriers
- d. Linguistic Barriers

20. What can we do to overcome the communication barrier?

- a. Use simple language
- b. Do not form assumptions on culture, religion or geography
- c. Try to communicate in person as much as possible
- d. All of the above

21. Remya traveled to Sweden from India to pursue her higher education. But she doesn't know how to speak Swedish (language of Sweden). Because of this, she was unable to find a part time job. This is an example of _____.

- a. Interpersonal barrier
- b. Physical barrier
- c. Organisational barrier
- d. Linguistic barrier

22. Self-management, also known as _____, is the ability to effectively control one's emotions, behavior and thoughts.

- a. Self – control
- b. Self – innovative
- c. Self – Design
- d. None of the above

23. Self management is also useful in:

- a. Reaching your goals
- b. Overcoming bad habits
- c. Creating positive habits
- d. All of the above

24. Our emotional, mental, physical, and social responses to perceived demands or threats are referred to as _____.

- a. Stress
- b. Blood pressure
- c. Constipation
- d. Heart attack

25. Stress can be defined as our mental, emotional, physical and social reaction to any perceived demands or threats. These demands or threats are called _____.

- a. Blood pressure
- b. Stress
- c. Stressors
- d. Constipation

SUBJECTIVES:

1. What is Communication? What are various elements of a communication cycle?

2. What is 7 C's effective communication?

3. What are the key components of effective communication?

4. Write own the different types of verbal communication. Give an example for each type.

5. What is public speaking?

6. Identify different types of non-verbal communication.

7. What are the common mistakes in non-verbal communication?

8. What is feedback in communication skills?

9. What are the Barriers of Effective Communication?

10. To become successful in life, which basic self – management skills do you require?

11. What is stress? What are the three steps to manage Stress?

12. What is emotional Intelligence in Self – Management skills?

13. How can you identify your Strengths and Weaknesses?

14. What are the two types of Motivation?

15. What are the qualities of Self – motivated people?

16. How to Set Goals in Self-Management Skills?

17. What are the benefits of time management? What are the four steps for effective time management?

18. Elaborate the term SMART goals.

19. Explain the importance of feedback.

20. What is the best way to work on long-term goals?

21. Write the difference between Interests and abilities.

22. Gautam was selected for the Cricket Team of India. He was experiencing positive stress as he was going to represent India in the upcoming World Cup. List some of the characteristics experienced by Gautam ?

23. What are the advantages of the ability to Work Independently?

24. Name the Stress causing agents.

25. How do you experience stress? Share your experiences and also write the actions you take for managing your emotions/ stress.

PROJECT:

AI:

1. Instagram Post Caption:

"@ BIG SALE ALERT @ Get 50% off on all our summer essentials! 🛒

☀ Don't miss out, only for today! Shop now at www.summeressentials.com 💻🔥

#Sale #SummerReady #Fashion"

Analyze above post according to the 7 Cs (e.g., Was the message clear and concise?

Was the tone courteous?)

Write a short paragraph on how the post could have been improved using the 7 Cs.

2. Design a poster that gives 5–7 tips for effective verbal communication

Include catchy slogans like:

Think before you speak!

Pause. Listen. Respond.

Clarity is key!

Students can draw or use Canva/PowerPoint

3. Choose a specific local issue in Bhilai that could benefit from increased awareness and positive change through social media (e.g., supporting a local environmental initiative, promoting a community arts program, encouraging responsible pet ownership, highlighting the achievements of local students, any social issues etc).

Task: Record an audio episode as a podcast host on any topic.

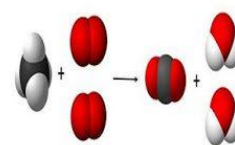
Objective: Work on voice modulation, flow, and confidence.

Submission: Audio file or short written script (using proper 7Cs).

IT-

1. Prepare a document in OO writer and do the following:

1. Create a new document in OO Writer and Type a paragraph.
2. Insert a picture of your choice.
3. Adjust the picture at top left to the paragraph.
4. Insert some shapes and write additional text into the shapes.



Chemical equations are used to graphically illustrate chemical reactions. They consist of chemical or structural formulas of the reactants on the left and those of the products on the right. They are separated by an arrow which indicates the direction and type of the reaction; the arrow is read as the word "yields". The tip of the arrow points in the direction in which the reaction proceeds. |

Chemical Equations and Mathematical Formulas refers to a formula which uses symbols.

The output should be something like this.

2. Follow the steps and prepare:

1. Create a new file in spreadsheet software.
2. Enter the data such as Roll no, GR NO, First Name, Last Name, Date of Birth, Father Name, Mother Name.
3. Enter records for at least 15 students.
4. Rename this worksheet as "Student Profile".
5. Insert 3 new worksheets and rename as "**Periodic Test I**", "**Periodic Test II**" and "**Periodic Test III**" respectively.
6. In the **Periodic Test I** worksheet create a reference for Roll No, First Name, and Last Name columns from Student Profile by using the keyboard.
7. In the **Periodic Test II** worksheet create a reference for Roll No, First Name, and Last Name columns from Student Profile by using the mouse.
8. In the **Periodic Test III** worksheet create a reference for Roll No, First Name, and Last Name columns from Student Profile as you wish.
9. Apply sheet tab color as follows:
 - o Profile – Red
 - o Periodic Test I – Green
 - o Periodic Test II – Blue
 - o Periodic Test III – Yellow

10. Now enter the marks for different subjects in the worksheets.

11. Delete the Worksheet **Perdioc Text III**.

[3] Data Consolidation and Hyperlink

1. Insert a new worksheet and rename as “**Consolidated Worksheet**“.
2. Create different references from the Student Profile and Marks to consolidate the result.
3. Move the worksheet to the end of the workbook sheet tab.
4. Insert a new worksheet at the beginning.
5. Create a hyperlink to move to a particular worksheet from the newly inserted worksheet.
6. Delete hyperlink for the consolidated worksheet

Write the steps and paste the images of the sheet after the actions are done.

SHARDA VIDYALAYA RISALI
SUMMER VACATION HOMEWORK
SUBJECT- MARKETING AND SALES

Class-X

1. Who is the father of modern Marketing?

2. Define Marketing Mix?

3. Marketing mix is the term used to describe the combination of the four inputs, which constitute the core of a company's marketing system, the product, the price structure, the promotional activities and the distribution system. Who has given this definition?

- a. William J Stanton b. Philip Kotler c. F. W Smith d. Taylor

ANS-----

4. A successful marketing strategy must consider:

- a. Marketing mix b. Target Market c. Both a and b d. Marketing segmentation

ANS-----

5. Marketing Mix depends on:

- a. Market Conditions b. Needs of the Customer c. Technological advancements d. All the above

ANS-----

6. What are 4Ps of marketing mix?

7. Define Marketing Mix of Services

8. Place in 4ps is same as:

- a. Promotion b. Distribution c. People d. Demand

ANS-----

9. Marketing mix accrues the following benefits to an organisation:

- I. Helps in consumer-oriented marketing II. Facilitates only one group of customers
III. Increases sales and profits IV. Elements are independent
V. Balanced relation between elements

a. II, III, IV

b. I, II, III

c. I, III, V

d. I, II, III

ANS-----

10----- is mainly used in case of tangible goods.

11. ----- are the three variables in service marketing mix.

- a. Product, Price, Promotion
b. Price, Place, Physical Evidence
c. Process, Promotion, Physical Evidence
d. Process, People, Physical Evidence

ANS-----

12. A business's marketing mix would NOT include:
a. Product b. Profit c. Place d. Promotion

ANS-----

13. Best definition of marketing mix:
a. Arrangement of products in store
b. Combination of elements to satisfy customers
c. Distribution through retailers
d. Pricing and packaging

ANS-----

14. What do the 4 P's achieve together?
a. Target customer b. Profit margins c. creating marketing plan d. None Of these.

ANS-----

15. Who proposed 4Ps classification?
a. Philip Kotler b. William J Stanton c. E Jerome McCarthy d. Henri Fayol

ANS-----

16. Distribution is part of:
a. Product b. Price c. Place d. Promotion

ANS-----

17. Name the two types of Marketing Mix.

ANS-----

18. Element dealing with value of goods:
a. Place b. Price c. Product d. Promotion

ANS-----

19. Element in service marketing but not product:
a. Price b. People c. Place d. Promotion

ANS-----

20. If value perceived high, price can be:
a. High b. Low c. Reasonable d. Minimum

ANS-----

21. Which of the following is NOT an element of communication within the communication process cycle?
(a) Channel (b) Receiver (c) Sender (d) Time

ANS-----

22. You need to apply leave at work? Which method of communication will you use?
(a) E-mail (b) Poster (c) Newsletter (d) Blog

ANS-----

23. By which action can senders send their messages?
(a) Gestures (b) Speaking (c) Reading (d) Writing

ANS-----

24. Which of the following is an example of oral communication?
(a) Newspapers (b) Letters (c) Phone call (d) e-mail Notes

ANS-----

25. What are the types of words we should use for verbal communication?
(a) Acronyms (b) Simple (c) Technical (d) Jargons

ANS-----

26. The below given statements are related to emails, choose the incorrect statement from the following?
(a) To communicate with many people at the same time.
(b) To share documents and files
(c) To talk to each other in real-time.
(d) To keep a record of communication

ANS-----

27. Which of these is a positive (good) facial expression?
(a) Frowning while concentrating (b) Maintaining eye contact
(c) Smiling continuously (d) Rolling up your eyes

ANS-----

28. What does an upright (straight) body posture convey or show?
a) Pride (b) Professionalism (c) Confidence (d) Humility

ANS-----

DESCRIPTIVE TYPE QUESTIONS

29. List the different types of verbal communication. Include examples for each verbal communication type.

30. Draw any five common signs used for Visual Communication. Explain what each conveys and where did you see it?

31. What do you mean by feedback? What is the importance of feedback?

32. Explain the common communication barriers you may come across when you move to a new city or country.

33. What is the importance of non-verbal communication?

34. Explain the parts of sentences.

35. Write two sentences of each type of sentence — statement, question, exclamatory and order.

36. What is Communication?

37. What is effective communication? List two best practices for effective communication.

38. Rajesh has placed an order for Samsung Ultra S25 mobile phone on Flipkart. He is located in Rajasthan. How will Samsung deliver the mobile phone to Rajesh?

39. Swathi is producing pickles and khakra and is selling directly to customers by visiting door to door. Identify and explain the marketing mix elements involved.-

Ans-----

40. A TV manufacturing company is spending substantial amount of money to persuade the target customers to buy its T.V. sets through advertisements, personal selling and sales promotion techniques. Identify and explain the element of marketing mix referred here.

Ans-----

LONG ANSWER QUESTION

41. Ambika is a famous chain selling a large variety of products in the Indian market. Their products include chips, biscuits, sweets and squashes. It charges a comparatively higher price than its competitors do as it sells quality products. Besides, it offers regular discounts to its customers and easy credit terms to its retailers. It has five of its own retail shops. It also sells its products through various grocery stores so that the products are made available to customers at the right place, in the right quantity and at the right time. It regularly uses different communication tools to increase its sales. Identify and explain the variables of marketing mix by quoting relevant lines.

Ans-----

42. Which element of marketing mix is also affected by distribution plans; value chain costs and why?

Ans-----

43. Advertising through various media is the most common and traditional form of promotion used by business firms. Discuss any four other ways to promote goods and services.

44. Promotion is the communication aspect of entire marketing function". What are the various tools used by the marketers to promote their products and services"? Explain
Ans-----

45. State any two points of significance of Marketing Mix.

Ans _____

46. Distinguish between direct distribution and indirect distribution.

Ans_____

47. Apart from advertising, explain four other promotion methods.

Ans_____

48. Tasty Treats wants to introduce its cookies into a crowded market. They have decided to set the price of their cookies lower than other brands. This helps them quickly break even and start making profits faster. By offering tasty cookies at a lower price, they can attract more customers. Eventually, lower price will help them to capture a bigger market share or increase it once they establish themselves. Identify the pricing strategy Adopted by Tasty Treats in the above example.

Ans_____

49. You visit "Hungry Wok," a restaurant with a clean dining area, comfortable seating, attractive menu, and visible logo. Identify and explain the service marketing mix element highlighted.

Ans_____

50. Dominos is the only pizza brand in India that has geared all its processes to meet its famous 30-minute deadline. The various tasks to be done is performed by the store staff, in given time slots. After the order flashes on kitchen screen, pizza maker immediately begins dough stretching, saucing, spreading cheese and the required toppings. All this is done in 4 minutes. Baking takes next 6 minutes. Then, cutting and packing of pizza is done in warm bags. This process takes another 5 minutes. Further, 8 minutes are assigned for delivery. In total 23 minutes are being allotted to entire process and 7 minutes are kept as buffer for unforeseen circumstances. This way, the 30-minutes pizza home delivery promise is being fulfilled. Which element of service Marketing Mix is highlighted in the above case? Explain briefly other elements also.

Ans_____

