1. **Read the passage carefully and answer the questions that follow.** **(10 × 1 = 10)**

(Factual Passage – 250–300 words)

The habit of reading is one of the greatest gifts a person can develop. Reading not only increases knowledge but also improves imagination and language skills. A regular reader learns new words, ideas, and cultures through books. In today's digital age, many students prefer mobile phones over books, which affects their concentration and thinking ability.

Reading helps in improving memory and focus. Students who read daily perform better academically as they develop better comprehension skills. Reading also reduces stress and provides mental peace. Fiction helps readers escape reality, while non-fiction helps them understand the world better.

Parents and teachers should encourage students to read books regularly. Schools should organize reading activities, book fairs, and library periods. Developing the habit of reading at a young age helps students become confident and knowledgeable individuals in the future.

Read the passage and answer the following questions in complete sentences:

1. What is one of the greatest gifts mentioned in the passage?   1
2. How does reading help students academically?   1
3. Why do many students avoid reading today?   2
4. What type of books help us understand the world better?   1
5. Give one benefit of reading mentioned in the passage.   1
6. Answer the following in **one word/phrase**:   (1 x 5)
    (a) Improves imagination and language -
    (b) Reduces stress -
    (c) Organized by schools to promote reading -
    (d) A book type that helps escape reality -
    (e) The age at which reading habit should be developed -

Q2. Read the poem and answer the questions below. **(5 × 2 = 10)**

Read the passage carefully and answer the questions that follow:

Earth is the only known planet in the universe that supports life. It has a unique atmosphere and suitable conditions which help various forms of life to thrive. The surface of Earth is covered with water, land, forests, mountains, and deserts. Water plays a crucial role in maintaining life on the planet. About 71% of the Earth's surface is covered with water, yet only a small portion of it is fresh and fit for human use.

Forests are often called the lungs of the Earth. They provide oxygen, support biodiversity, and help control the climate. Sadly, rapid urbanisation and deforestation are causing serious environmental problems. Many species of plants and animals are endangered because their natural habitats are disappearing. To protect Earth and its biodiversity, it is important for humans to practice sustainable living and environmental conservation.

Climate change is another major challenge faced by humanity. It refers to long-term changes in temperature and weather patterns. Human activities like burning fossil fuels and cutting down trees increase the amount of greenhouse gases in the atmosphere, leading to global warming. Rising sea

levels and extreme weather events such as floods, droughts, and storms are consequences of climate change. People must understand that small steps like saving energy, planting trees, and reducing waste can make a big difference in protecting the environment for future generations.

Comprehension Questions (10 marks)

A. Read the passage and answer the following questions in complete sentences:
1. What makes Earth different from other planets? (1)
2. Why is water important for life on Earth? (1)
3. What are forests called and why? (1)
4. Name two environmental problems mentioned in the passage. (1)
5. What causes climate change according to the passage? (1)

B. Answer the following in detail:
6. Why is it important to conserve the environment? Give two reasons. (2)
7. Explain how human actions contribute to global warming. (2)
8. Suggest **two ways** individuals can help protect the environment, as mentioned in the passage. (1)
9. Find words from the passage that mean the same as: (2)
   a) Endangered
   b) Changes over a long time

SECTION B – WRITING SKILLS (15 Marks)

3. You are the **Cultural Secretary of your school**. Write a notice informing students about an **Inter- School Debate Competition**.   05

<div align="center">OR</div>

Write a notice about **Cleanliness Drive in your school**.

4. Write a letter to the **Municipal Corporation** complaining about **irregular water supply in your locality**.   10

<div align="center">OR</div>

Write a letter to your **Principal** requesting permission to organize a **Book Fair** in school.

SECTION C – GRAMMAR & LANGUAGE (10 Marks)

5. Fill in the blanks (5 × 1 = 5)
1. She _____ (go/goes) to school daily.
2. The train arrived _____ time.
3. He is afraid _____ dogs.
4. We _____ (play/played) football yesterday.
5. Honesty is the best _____.
6. Choose the correct passive voice of the given sentence:
   "The teacher explained the lesson clearly."
   a) The lesson has been explained by the teacher.
   b) The lesson was explained clearly by the teacher.
   c) The lesson is explained by the teacher.
   d) The lesson will be explained by the teacher.

6. Identify the correct active voice of the given sentence:
   "The match was won by our team."
   a) Our team wins the match.
   b) Our team had won the match.
   c) Our team won the match.
   d) Our team has won the match.

7.   Choose the correct conjunction to complete the sentence:
     "She was tired _____ she continued to work."
     a) because
     b) but
     c) and
     d) so
8.   Fill in the blank with the most suitable conjunction:
     "We will wait here _____ you return."
     a) or
     b) until
     c) unless
     d) although
9.   Identify the adverb in the given sentence:
     "The child spoke politely to the guests."
     a) Child
     b) spoke
     c) politely
     d) guests

SECTION D – LITERATURE (35 Marks)

10.   Read the extract given below and answer the questions that follow:

All these thoughts led me to question myself as to why people climb mountains. It is not easy to answer the question. The simplest answer would be, as others have said, "Because it is there." It presents great difficulties. Man takes delight in overcoming obstacles. The obstacles, in climbing a mountain are physical. A climb to a summit means endurance, persistence and will power. The demonstration of these physical qualities is no doubt exhilarating, as it was for me also. I have a more personal answer to the question. From my childhood I have been attracted by mountains. I had been miserable, lost, when away from mountains, in the plains. Mountains are nature at its best. Their beauty and majesty pose a great challenge, and like many, I believe that mountains are a means of communion with God.

(a) What is the meaning of 'a climb to a summit'?   2
(b) What quality is 'exhilarating' for him?   1
(c) What was his childhood belief about mountain?   1
(d) Find the suitable word with the same meaning as state or feeling of close relationship.   1

11.   Read the extract given below and answer the questions that follow:
      I love to rise in a summer morn,
      When the birds sing on every tree;
      The distant huntsman winds his horn,
      And the skylark sings with me.
       0! What a sweet company.

      (a) What does the child love about summer morning?   2
      (b) What does child speak about huntsman?   1
      (c) Name the poem from which these lines have been extracted.   1
      (d) What is the rhyming scheme followed in the poem?   1

12. Answer the following questions.   2x4=8
    (a)   What had happened to Jody's father?
    (b)   What is the scientist's message for the disabled?
    (c)   Why is the author not able to see Bijju?
    (d)   The poetry of earth is not made of words. What is it made of, as suggested
           in the poem?

13. The writer expresses his great gratitude to Stephen Hawking. What is the   3
    gratitude for?

                                    OR

    The poetry of earth continues round the year through a cycle of two seasons.
    Mention each with its representative voice.

14. Answer these questions.   2x3=6
    (a)   What was Princess September's reaction to the loss of her parrot?
    (b)   Why didn't he pay the school fees on the day he brought money to school?
    (c)   Why were travellers attracted towards India?

15. In what way is the forest pool different from the one which Ranji knew in the 4
    Rajputana desert ?

                                    OR

    Why didn't the narrator eat all the jalebis he had bought? What did he do with
    the remaining jalebis?

16. How did the deer drink milk from the gourd?   4

                                    OR

    What made Bepin Choudhury realize his mistake?

O.P. JINDAL SCHOOL, PATRATU
MODEL QUESTIONS : 2025-26

Class – VIII   Time: 3 Hrs.
Sub. – HINDI   F.M : 80

खंड -क

- इस प्रश्न-पत्र में चार खंड है -क,ख,ग,घ
- चारों खण्डों के प्रश्नों के उत्तर देना अनिवार्य है ।
- यथासंभव उत्तर क्रमशः दीजिए ।

1. निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर दिए गए प्रश्नों के उत्तर लिखिए -   1X5=5

पत्रों की दुनिया भी अजीबो गरीब है और उसकी उपयोगिता हमेशा से बनी रही है। पत्र जो काम कर सकते हैं, वह संचार का आधुनिकतम साधन नहीं कर सकता है। पत्र जैसा संतोष फोन या एसएमएस का संदेश कहाँ दे सकता है। पत्र एक नया सिलसिला शुरू करते हैं और राजनीति, साहित्य तथा कला के क्षेत्रों में तमाम विवाद और नयी घटनाओं की जड़ भी पत्र ही होते हैं। दुनिया का तमाम साहित्य पत्रों पर केंद्रित है और मानव सभ्यता के विकास में इन पत्रों ने अनूठी भूमिका निभाई है।

i.'पत्र' किसे कहते हैं?

 (क) लिखित प्रारूप   (ख) एक पुस्तक (ग) समाचार पत्र   (घ) पोस्टकार्ड

ii . आधुनिक संचार के साधन होते हुए भी पत्रों का स्थान महत्वपूर्ण क्यों है?

(क) स्थायी होते है   (ख) पूर्ण गोपनीय रूप में रखे जा सकते हैं।

(ग) पूरी तरह से भावनाओं को उजागर करते हैं।   (घ) दिए गए सभी

iii . पत्रों की क्या विशेषता होती हैं ?

(क) ये सुन्दर होते हैं।   (ख) ये लिखित और स्थायी होते हैं।

(ग) ये किसी एक विशेष के लिए होते हैं।   (घ) ये आसानी से पहुँचाए जा सकते हैं।

iv.मानव सभ्यता के विकास में पत्रों ने अनूठी भूमिका कैसे निभाई है?

 (क) पत्र संदेशवाहक माने जाते हैं।

(ख) पत्रों ने ही एक पौड़ी का ज्ञान दूसरी पीढ़ी को दिया है।

(ग) पत्रों ने विकास का स्तर निश्चित किया है।

(घ) ये आसानी से पहुँचाए जा सकते हैं।

v.'पत्र' का पर्यायवाची शब्द है -

क)पक्षी   ख)पंख   चिट्ठी

 2. निम्नलिखित पद्यांश को पढ़कर दिए गए प्रश्नों के उत्तर लिखिए -   1x5=5

पक्षी और बादल,

ये भगवान के डाकिए हैं.

जो एक महादेश से

दूसरे महादेश को जाते हैं।

हम तो समझ नहीं पाते हैं।

मगर उनकी लाई चिट्ठियाँ

पेड़, पौधे, पानी और पहाड़

बाँचते हैं ।

i . बादल व पक्षी' क्यों डाकिए कहलाते हैं?

(क) क्योंकि वे ईश्वर का संदेश लाते हैं।   ख)क्योंकि वे चिठियाँ बाँटते हैं ।

(ग) क्योंकि ये लोगों के सुख-दुख जान लेते हैं।   घ) इनमें से कोई नहीं ।

ii. इनके संदेश कौन पढ़ने में सक्षम होते हैं?

(क) प्रकृति अर्थात् पेड़-पौधे, सरोवर, सरिताएँ, समुद्र व पर्वत   (ख) सभी जीव-जंतु

(ग) संसार में रहने वाले सभी लोग   (घ) इनमें से कोई नहीं।

iii. 'महादेश' शब्द से क्या तात्पर्य है?

(क) महान देश   (ख) विशेष देश

(ग) विशाल देश   (घ) दूर-दराज का

iv. भगवान के डाकिए इस संसार को क्या संदेश देना चाहते हैं?

(क) आपसी प्रेम का   (ख) विश्वबंधुत्व का

(ग) जातिभेद न करने का   (घ) निरंतर आगे बढ़ने का

V. 'भगवान के डाकिए' के रचियता कौन है ?

क) हरिशंकर परसाई   ख) रामदरश मिश्रा

ग) भगवती चरण वर्मा   घ) रामधारी सिंह 'दिनकर'

<center>खंड -ख</center>

3. निम्नलिखित वाक्यों में से विशेषण -विशेष्य छांटकर लिखिए-   1x2=2

क) आज दो हजार रूपये का लाभ हुआ ।

ख) बुआ जी सात पुस्तकें लाई थी ।

4. उचित शब्द छाँटकर रिक्त स्थान में लिखिए -   1x2=2

क) इस --------- में आम और अमरुद के पेड़ हैं ।   (बाग़/बाघ)

ख) अगले सप्ताह चुनावों के ----------निकलेंगे ।   (परिमाण/परिणाम)

5. निम्नलिखित वाक्यों के अर्थ की दृष्टि से भेद लिखिए -   1x4=4

क) क्या तुम सो रही हो ?

ख) यहाँ कूड़ा मत डालो

ग) मैं गाना नहीं गा सकती ।

घ) शायद मैं कल न आऊं ।

6. निम्नलिखित वाक्यों में उद्देश्य तथा विधेय को अलग करके लिखिए -   1x2=2

क) पुलिस के आने से पहले ही चोर भाग गए ।

ख) पक्षियों ने दाने चुग लिए ।

7. निम्नलिखित वाक्यों को कर्मवाच्य में बदलिए   -   1x2=2

क) बालक ने फूल तोड़े ।

ख) अमित पतंग उड़ा रहा है

8. निम्नलिखित वाक्यों को भाववाच्य में बदलिए -   1x2=2

क) वह उठ नहीं सकती ।

ख) प्रतीक दौड़ नहीं पाया ।

9. निम्नलिखित क्रियाओं के काल बदलकर वाक्य दुबारा लिखिए- -   1x2=2

क) बस सदियों के निशान लिए हुए थी   (वर्त्तमान काल)

ख) वास्तव में पत्र किसी दस्तावेज़ से कम नहीं हैं (भविष्यत् काल)

10. निम्नलिखित शब्दों से नामधातु क्रिया बनाइए -   1x2=2

क) लालच   ख) लज्जा

11. - निम्नलिखित वाक्यों में दिए गए रेखांकित पदों का परिचय दीजिए -   **1x2=2**

क) गुफा में एक *साँप* रहता था ।

ख) मैंने *इधर-उधर* दृष्टि दौड़ाई

11. बहुविकल्पी प्रश्नोत्तर -   1x10=10

क) लहरों ने गीत किसके लिए गए ?

      i) साँप के लिए   ii) बाज के लिए   iii) नदी के जल के लिए

ख) बूंद की पुरखे कौन थे ?

      i) समुद्र का जल   ii) नदियों का जल   iii) ह्रदजन व ओषजन

ग) सुदामा को क्या नहीं मिल रहा था ?

      i) अपना गाँव   ii) अपनी झोपड़ी   iii) अपने परिवार के सदस्य

घ) गोपी ने यशोदा को किसकी शिकायत की ?

      i) श्रीकृष्ण की   ii) बलराम की   iii) राधा की

ङ) लहरें कैसा गीत गा रही थी ?

      i) रोमांचक   ii) मधुर एवं रहस्यमय   iii) वीरता

च भारतीय आर्य किस व्यस्था में विश्वास करते थे ?

      i) व्यक्तिवाद   ii) समाजवाद   iii) शिक्षावाद

छ) प्राचीन समय में भारत की राजधानी कौन- सी थी ?

      i) इन्द्रप्रस्थ   ii) केरल   iii) पटना

ज) महाभारत का मुख्य भाग कौन सा है ?

      i) भागवतगीता   ii) सुन्दरकाण्ड   iii) कामायनी

झ) 'पद्मावत' ग्रन्थ किस कवि की रचना है ?

      i) जायसी   ii) कबीर   iii) तुलसी

ञ) 'राजा राम मोहन राय' ने किस समाज की स्थापना की ?

      i) स्त्री समाज   ii) ब्रह्म समाज   iii) धार्मिक समाज

<center>खंड -ग</center>

12. निम्नलिखित प्रश्नों के उत्तर लिखिए- **(गद्य खंड)**   2x5=10

क) प्रारंभ में इस आंदोलन को चलाने में कौन-कौन सी बाधा आई ?

ख) बिलवासी जी ने रुपयों का प्रबंध कहाँ से किया ?

ग) बाज अपने जीवन में संतुष्ट क्यों था ?

घ) लेखक ने पानी की कहानी किसके माध्यम से दर्शायी है ?

ङ) जहांगीरी अंडा क्या है ? कहानी के आधार पर स्पष्ट कीजिए ।

13. निम्नलिखित प्रश्नों के उत्तर लिखिए - **(काव्य खंड)**

      2x5=10

क) अपने गाँव लौटने पर सुदामा के भ्रमित होने का क्या कारण था ?

ख) 'तलवार का महत्त्व होता है म्यान का नहीं'-उक्त उदहारण से कबीर क्या कहना चाहते हैं? स्पष्ट कीजिए ?

ग) गोपी यशोदा के पास क्यों आई ?

घ) श्रीकृष्ण माँ से क्या शिकायत करते है ?

ङ') दवारिका से लौटते समय सुदामा दुखी क्यों थे ?

14. निम्नलिखित पद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए -

      1x5=5   पक्षी और बादल,

ये भगवान के डाकिए हैं.

जो एक महादेश से

दूसरे महादेश को जाते हैं।

हम तो समझ नहीं पाते हैं।

मगर उनकी लाई चिट्ठियाँ

पेड़, पौधे, पानी और पहाड़

बाँचते हैं ।

i . बादल व पक्षी' क्यों डाकिए कहलाते हैं?

(क) क्योंकि वे ईश्वर का संदेश लाते हैं।   ख)क्योंकि वे चिठियाँ बाँटते हैं ।

(ग) क्योंकि ये लोगों के सुख-दुख जान लेते हैं।   घ) इनमें से कोई नहीं ।

ii. इनके संदेश कौन पढ़ने में सक्षम होते हैं?

(क) प्रकृति अर्थात् पेड़-पौधे, सरोवर, सरिताएँ, समुद्र व पर्वत   (ख) सभी जीव-जंतु

(ग) संसार में रहने वाले सभी लोग   (घ) इनमें से कोई नहीं।

iii. 'महादेश' शब्द से क्या तात्पर्य है?

(क) महान देश   (ख) विशेष देश

(ग) विशाल देश   (घ) दूर-दराज का

iv.भगवान के डाकिए इस संसार को क्या संदेश देना चाहते हैं?

 (क) आपसी प्रेम का   (ख) विश्वबंधुत्व का

(ग) जातिभेद न करने का   (घ) निरंतर आगे बढ़ने का

V. 'भगवान के डाकिए' के रचियता कौन है ?

क)हरिशंकर परसाई   ख)रामदरश मिश्रा

ग)भगवती चरण वर्मा   घ)रामधारी सिंह 'दिनकर'

खंड -घ

15. अपने छोटे भाई को सत्संगति का महत्व बताते हुए पत्र लिखिए -   5
अथवा

   छात्रों के लिए खेलोत्सव आयोजित करने का अनुरोध करते हुए प्रधानाचार्य को पत्र लिखिए -

16. निम्नलिखित विषयों में से किन्हीं एक विषय पर अनुच्छेद लिखिए -   5
   विद्यालयी बच्चों की सुरक्षा   **अथवा** जब मैं जादूनगरी में पहुँच गया
＊＊＊＊＊＊

CLASS:VIII   FULL MARKS: 80
SUBJECT: MATHEMATICS   TIME ALLOWED: 3 Hr.

General Instruction :
1. Q1 to Q20 Consists of Multiple Choice Questions (MCQs) carrying **1 mark each**.
2. Q. No. 21 to 25 Consists of 5 Very Short Answer-I (VSA-I) type questions carrying **1 mark each**.
3. Q. No. 26 to 30 Consists of 5 Very Short Answer-II (VSA-II) type questions carrying **2 marks each**.
4. Q. No. 31 to 34 Consists of 4 Short Answer-I (SA-I) type questions carrying **3 marks each**.
5. Q. No. 35 to 38 Consists of 4 Short Answer-II (SA-II) type questions carrying **4 marks each**.
6. Q. No. 39 Consists of 1 Case Study based question carrying **5 marks**.
7. Q. No. 40 to 41 Consists of 2 Long Answer (LA) type questions carrying **6 marks each**.

MCQ (Q1 to Q20)   1x20=20

Q.1 If $3x - 4 = 11$, then the value of x is:

(a) 3   (b) 5   (c) 7   (d) 15

Q2. The sum of two consecutive integers is 31. The smaller integer is:

(a) 15   (b) 16   (c) 14   (d) 17

Q3. The probability of getting a 'Head' when a coin is tossed is:

(a) 0   (b) 1   (c) 1/2   (d) 1/4

Q4. Data represented using circles is called a:

(a) Bar graph   (b)Histogram   (c) Pie Chart   (d) Line graph

Q5. What is the smallest number by which 81 must be divided to get a perfect cube?

(a) 3   (b) 9   (c) 27   (d) 2

Q6. The cube root of 216000 is:

(a) 20   (b) 40   (c) 60   (d) 600

Q7. The value of $(x+3)^2$ is:

(a) $x^2 + 9$ (b) $x^2 + 6x + 9$ (c) $x^2 + 3x + 9$ (d) $x^2 + 6x + 6$

Q8. Subtract $4a - 7ab$ from $12a - 9ab$:

(a) $8a - 2ab$ (b) $8a + 2ab$ (c) $16a - 16ab$ (d) $8a - 16ab$

Q9. The product of $2x$ and $(3x + 5y)$ is
(a) $6x^2 + 10xy$ (b) $5x^2 + 7xy$ (c) $6x + 10y$ (d) $6x^2 + 5y$

Q10. The area of a rhombus whose diagonals are 10 cm and 8 cm is:

(a) 80 cm²   (b) 40 cm²   (c) 20 cm²   (d) 18 cm²

Q 11. If the edge of a cube is doubled, its volume becomes:

(a) 2 times   (b) 4 times   (c) 6 times   (d) 8 times

Q 12. What does 1 litre on converting to cubic cm becomes ?

(a) 100 cm³   (b) 1000 cm³   (c) 10000 cm³   (d) 10 cm³

Q 13. The multiplicative inverse of 10^{-5} is:

(a) 10^5 (b) 10^{-5} (c) $1/10^5$ (d) -50

Q 14. The value of $(2^0 + 3^0 + 5^0)$ is:

(a) 0   (b) 1   (c) 3   (d) 9

Q 15. If 10 pencils cost ₹50, then 15 pencils will cost:

(a) ₹ 60   (b) ₹ 75   (c) ₹ 100   (d) ₹ 65

Q 16. If x and y vary inversely and x=4 when y=6, what is x when y=3 ?

(a) 2   (b) 8   (c) 12   (d) 14

Q 17. A machine fills 840 bottles in 6 hours. How many bottles will it fill in 5 hours?

(a) 600   (b) 700   (c) 750   (d) 800

Q 18. Factorization of $x^2 + xy + 8x + 8y$ is:

(a) (x+y)(x+8)   (b) (x+y)(x+y)   (c) (x+8)(x+8)   (d) (x-y)(x-8)

Read the following statements: Assertion (A) and Reason (R). Choose one of
the correct alternatives given below:

Q19. Assertion (A): The common factor of the algebraic terms 2y and 22xy is 2y.
     Reason (R): A common factor is a number or variable that is a factor of two or more terms.
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.

Q20. Assertion (A): The point (0, 5) lies on the y-axis of the Cartesian plane.
Reason (R): For any point lying on the y-axis, the x-coordinate (abscissa) is always zero.
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.

Very Short Answer (I) (Q21 to Q25)   1 x 5 = 05
Q21. Solve for x: $2x/3 = 18$.
Q22. Find the value of $(19)^3$.
Q23. Express 3,020,000,000 in standard form.
Q24. Factorize: $10x^2 - 15x$.
Q25. Write the coordinates of the origin.

Very Short Answer (II) (Q26 to Q30)   2 x 5 = 10
Q26. Solve: $x/2 - 1/5 = x/3 + ¼$
Q27. The perimeter of a rectangle is 13 cm and its width is $2\frac{3}{4}$ cm. Find its length.
Q28. Find the cube root of 512 by prime factorization method.
Q29. Simplify the given algebraic expression : $(a + b)(2a - 3b + c)$.
Q30. Factorize: $p^2 - 10p + 25$.

Short Answer Questions (I) (Q30 to Q34)   3 x 4 = 12
Q31. Using suitable identity find the value of 103×104.
Q32. The area of a trapezium is 105 cm² and its height is 7 cm. If one of the parallel sides is longer than the other by 6 cm, find the two parallel sides.
Q33. Divide $x^2 + 5x + 6$ by $(x+3)$ using factorization method.
Q34. Factorize the expression $16x^5 - 144x^3$.

Short Answer Questions (II) (Q34 to Q38)   4 x 4 = 16
Q35. Find the smallest number by which 256 must be divided so that the quotient is a perfect cube. Also find the cube root of the quotient.
Q36. Show that $(3x + 7)^2 - 84x = (3x - 7)^2$.
Q37. Simplify : $(3^{-5} \times 10^{-5} \times 125) / (5^{-7} \times 6^{-5})$.
Q38. The following table gives the sales of a company in different years. Plot a graph to show the following data:

YEAR	2003	2004	2005	2006
Sales(in Crores)	80	100	90	120

Case Based Questions (Q39)   5 x 1 = 5
Q39. The village of Rampur recently shifted from traditional electricity-dependent pumps to a modern Solar-Powered Water Pump System under the "Green Village Initiative." This system uses energy from solar panels to draw water from a deep borewell into a massive overhead storage reservoir.

The Village Panchayat needs to manage this resource carefully. They have observed that the pump's output is consistent during peak sunny hours. However, with the village population growing due to new families migrating for the harvest season, the community must calculate exactly how long their stored water will last to avoid a dry spell.

Based on the above information, answer the following questions:

(a)   The solar pump is tested and found to fill a 1,200-litre tank in exactly 4 hours. If the sun shines   brightly for 9 hours, how many litres of water will the pump be able to collect in the reservoir?

(b)   The main storage reservoir currently has enough water to last for 30 days if 20 families use it daily. However, 10 more families have recently joined the village for the season. How many days will the same reservoir last now? (Assuming every family consumes the same amount of water).

(c)   In the scenario described in (a) , does the relationship between the number of families and the number of days the water lasts represent a Direct Proportion or an Inverse Proportion?

Long Answer Questions (Q40 to Q41)   6 x 2 = 12

Q40. The following table shows the marks obtained by a student (out of 100) in an examination. Represent the data by a Pie Chart.

SUBJECT	ENGLISH	HINDI	MATHS	SCIENCE	SOCIAL SCIENCE
MARKS	60	75	90	55	85

Q41. A rectangular piece of paper of length 22 cm and breadth 10 cm is folded without overlapping to make a cylinder of height 10cm. Find the volume of the cylinder so formed. (Take $\pi = 22/7$)

END OF PAPER*

CLASS VIII   **TIME:** 2 Hours
SUB: SANSKRIT   **MAXIMUM MARKS:** 50

No.1 निर्देशानुसारं उत्तरं लिखत। 1×10=10

क) लुब्धस्य _____ नश्यति। (विद्या, धनम्, यशः, भोजनम्)

ख) सिंहस्य नाम_____ आसीत्। (दधिपुच्छः, खरनखरः, मेघनादः, काष्ठकूटः)

ग) _____ "डिजिटल इंडिया" इत्यस्य चर्चा भवति?(सम्पूर्णराज्ये, सम्पूर्णविश्वे, झारखंडराज्ये, विदेशे)

घ) श्रीधर भास्कर वर्णेकरः _____ कविः मन्यते।   (राष्ट्रवादी, राज्यवादी, साहित्यवादी, वलशाली)

ङ) चञ्चलः व्याघ्रं _____ दृष्टवान्। (वने, नगरे, ग्रामे, जले)

च) राकेशः शालिनीं_____ गन्तुं कथयति। (गृहम्, चिकित्सिकां प्रति, विद्यालयं प्रति, मन्दिरम् प्रति)

छ) प्राचीनेतिहासे_____ स्वाधीनाः आसन्? (नवभगिन्यः, सप्तभगिन्यः, अष्टभगिन्यः, धीवराः)

ज) अस्माकं देशे ____ केन्द्रशासितप्रदेशाः सन्ति।   (सप्त, अष्ट, दश, एकादश)

 झ) _____ जलं पिबेत् । (मधुरं, लावणिकं, वस्त्रपूतम्, मलिनं)

ञ) ____ स्वदृढनिश्चयात् न विचलति। (सावित्रीबाई, रमाबाई, सीता देवी, माधुरी देवी)

No. 2 पूर्णवाक्येन उत्तराणि लिखत। 1×5=05

क) के गुणज्ञेषु गुणाः भवन्ति?

ख) गुहायाः स्वामी कः आसीत्?

ग) अद्य सर्वाणि कार्याणि केन साधितानि भवन्ति?

घ) निःसहायो व्याधः किमयाचत?

ङ) भगिनी सप्तके कानि राज्यानि सन्ति?

No. 3 पाठस्य आधारेण निम्नलिखितानां प्रश्नानां उत्तराणि लिखत।   2×4=08

क) महतीं गुहां दृष्ट्वा सिंहः किम् अचिन्तयत्?

ख) गुहासमीपमागत्य शृगालः किं पश्यति?

ग) व्याघ्रस्य पिपिसा कथं शान्ता अभवत्?

घ) यत्र नार्यः न पूज्यन्ते तत्र किं भवति?

No. 4 त्रयाणां-प्रश्नानां उत्तराणि लिखत।   3×3=09

क) गम् धातोः लट् लकारस्य रुपाणि लिखत।

ख) खाद् धातोः लोट् लकारस्य रुपाणि लिखत।

ग) नम् धातोः लट् लकारस्य रुपाणि लिखत।

No. 5   4×2=08

क) राम शब्दरुपं लिखत।

ख) रमा शब्दरुपं लिखत।

No. 6   द्वयोः श्लोकयोः शब्दार्थं अर्थं च लिखत।

क) साहित्यसंगीतकलाविहीनः

 साक्षात्पशुः पुच्छविषाणहीनः।

तृणं न खादन्नपि जीवमानः

 तद्भागधेयं परमं पशूनाम्।।

ख) अभिवादनशीलस्य नित्यं वृद्धोपसेविनः।

चत्वारि तस्य वर्धन्ते आयुर्विद्या यशो बलम्।।

O.P. JINDAL SCHOOL, PATRATU

MODEL QUESTION PAPER : 2025-26

CLASS VIII   **TIME:** 3 Hours
SUB: SCIENCE   **MAXIMUM MARKS:** 80

GENERAL INSTRUCTIONS:

   (I)   All questions are compulsory
   (II)   This question paper consists of 39 question in all.
   (III)   Question numbers 1to 15 are multiple choice questions, each carry 1 mark and 16 to 20 are
           fill in the blanks type questions, each carry 1 mark.
   (IV)   Question numbers 21 to 27 are very short type questions, each carry 2 marks.
   (V)   Question numbers 28 to 34 are short answer type questions, each carry 3 marks
   (VI)   Question numbers 35 to 39 are long answer type questions, each carry 5 marks

SECTION – A   (1x20=20)

1. The practice of growing crops in rows is called
   a) Harvesting
   b) Sowing
   c) Ploughing
   d) Irrigation

2. Which micro-organism is used in making curd?
   a) Virus
   b) Bacteria
   c) Protozoa
   d) Algae

3. Coal and petroleum are examples of
   a) Renewable resources
   b) Inexhaustible resources
   c) Fossil fuels
   d) Biotic resources

4. Which substance supports combustion?
   a) Nitrogen
   b) Carbon dioxide
   c) Oxygen
   d) Water

5. Deforestation leads to
   a) Increase in rainfall
   b) Soil erosion
   c) Conservation
   d) More wildlife

6. Fertilization in humans takes place in
   a) Ovary
   b) Uterus

c) Oviduct

d) Vagina

7. The hormone responsible for growth in humans is

    a) Insulin

    b) Thyroxine

    c) Growth hormone

    d) Adrenaline

8. Force can change the

    a) Colour of object

    b) Shape of object

    c) Taste of object

    d) Mass of object

9. Friction is always

    a) Helpful

    b) Harmful

    c) Opposes motion

    d) Increases speed

10. Sound is produced by

    a) Light

    b) Vibrations

    c) Heat

    d) Electricity

11. Chemical effect of electric current is seen in

    a) Bulb

    b) Heater

    c) Electroplating

    d) Fan

12. The device used to detect earthquake waves is

    a) Barometer

    b) Seismograph

    c) Thermometer

    d) Anemometer

13. The phenomenon of splitting white light is called

    a) Reflection

    b) Refraction

    c) Dispersion

    d) Scattering

14. Where does the fusion of male and female gametes generally takes place

    (a) Fallopian tube

    (b) Ovary

    (c) Uterus

    (d) Zygote

15. Rolling friction is smaller than

    (a) Sliding friction

    (b) Static friction

    (c) Fluid friction

    (d) All the above

      Fill in the blanks

16. Kharif crops are sown in the _____ season.
17. Yeast is used in the preparation of _____.
18. Petroleum is refined in a _____.
19. The lowest temperature at which a substance catches fire is called _____.
20. Protected areas for wildlife are called _____.

SECTION – B   **(2x7=14)**

Very Short Answer

21. Write two harmful effects of micro-organisms.

OR

22. What is deforestation?
23. Explain the importance of reproduction in organisms.
24. What do you mean by secondary sexual characteristics?
25. Define pressure. Give mathematical formula.
26. Name two methods to reduce friction.
27. Define amplitude and frequency of sound?

OR

Name the natural disaster caused by electric charges.

SECTION – C   **(3 × 7 = 21)**

Short Answer

28. What is crop rotation? Why is it important?
29. What is wildlife conservation?
30. Explain internal fertilization.
31. Write two changes during adolescence.
32. How does force change the shape of an object?
33. What is electroplating? Write the importance of electroplating.
34. What are lightning conductors? Why is it important to install in buildings/houses?

SECTION –D   **(5 × 5 = 25)**

Long Answer

35. Riya visited a biology laboratory where she observed different stages of reproduction in animals. She learned that animals reproduce to continue their species. In some animals, fertilization occurs inside the female body, while in others it occurs outside. She also observed that after fertilization, a zygote is formed which later develops into an embryo. In humans, the embryo gets embedded in the wall of the uterus and continues to develop into a foetus. Some animals give birth to young ones, while others lay eggs.

    Answer the following questions based on the above passage:

    (i) Fertilization that takes place inside the female body is called:
        a) External fertilization
        b) Internal fertilization
        c) Asexual reproduction
        d) Budding

(ii) The fusion of male and female gametes results in the formation of:
   a) Embryo
   b) Foetus
   c) Zygote
   d) Ovum
(iii)In humans, the embryo is embedded in the wall of the:
   a) Ovary
   b) Oviduct
   c) Uterus
   d) Vagina
(iv)Which of the following animals shows external fertilization?
   a) Dog
   b) Cow
   c) Frog
   d) Human
(v) Animals that give birth to young ones are called:
   a) Oviparous
   b) Viviparous
   c) Amphibians
   d) Reptiles

36. Explain the role of hormones during adolescence.

37. Explain the propagation of sound and characteristics of sound.

38. Explain the formation of images by plane and spherical mirrors.
39. Draw the labeled diagram of the human eye. What are the functions of

   (i)Cornea   (ii) Iris and Pupil

01. Who fought a Guerrilla War with the support of many tribal and farmer leaders?
   (a) Kunwar Singh   (b) Tantia Tope
   (c) Ahmadullah Shah   (d) Bakht Khan

02. Who was hanged to death for attacking his officers in Barrackpore?
   (a) Rani Laxmibai   (b) Bahadur Shah Zafar
   (c) Mangal Pandey   (d) Nana Saheb

03. Who introduced the English Education Act of 1835.
   (a) Thomas Babington Macaulay   (b) Lord Curzon
   (c) Lord Ripon   (d) Rabindranath Tagore

04. Who was the President of the Board of Control of the East India Company?
   (a) Charles Wood   (b) Thomas Babington Macaulay
   (c) James Mill   (d) William Jones

05. Who founded a widows' home at Poona to provide shelter to widows?
   (a) Pandita Ramabai   (b) Tarabai Shinde
   (c) Rokeya Sakhawat   (d) None of these

06. In which of the following city a madrasa was set up in 1781 to promote the study of Arabic, Persian and Islamic Law?
   (a) Banaras   (b) Kolkata
   (c) Calcutta   (d) Bombay

07. Who started temple entry Movement?
   (a) E.V. Ramaswamy Naicker   (b) Jyoti Rao Phule
   (c) Mahatma Gandhi   (d) Dr.B.R.Ambedkar

08. "Freedom is my birthright and I shall have it." Who raised this slogan?
   (a) Bal Gangadhar Tilak   (b) Bhagat Singh
   (c) Jawaharlal Nehru   (d) Subhash Chandra Bose

09. Which of the following is not a Man-made fibre?
   (a) Nylon   (b) Jute
   (c) Acrylic   (d) Rayon

10. Marine -based industries are based on……….
   (a) Minerals   (b) Forest products
   (c) Oceanic Products   (d) Agricultural products

11. Which one of the following is a densely populated area of the world?
   (a) India   (b) Eastern- Europe
   (c) South-East Asia   (d) Northern America

12. Which one of the following country is the leading producer of coffee?
   (a) Russia   (b) China
   (c) Brazil   (d) Sri Lanka

13. What is called the number of people living in an area per square km of land?

(a) Pattern of population   (b) Density of population

(c) Birth rate   (d) Migration

14. Which of the following city is referred to as the 'Manchester of India'?

    (a) Ahmedabad   (b) Mumbai

    (c) Kanpur   (d) Kolkata

15. Which of the following refers to a condition in which all citizens are treated as equal?

    (a) Marginalisation   (b) Social justice

    (c) Untouchables   (d) None of these

16. Which one of the following Article of the Constitution states that untouchability has been abolished?

    (a) Article 11   (b) Article 14

    (c) Article 15   (d) Article 17

17. Which one of the following empowers people with skill that are necessary for the economics development of a country?

    (a) Sanitation   (b) Water supply

    (c) Education   (d) Power

18. In which year the Consumer Act was passed by the Indian Parliament for the welfare of Consumers?

    (a) 1986   (b) 1985

    (c) 1950   (d) 1947

19. Marginalisation means to make a group of people feel…………

    (a) proud   (b) important

    (c) unimportant and isolated   (d) none of these

20. Who carries the responsibility of providing public facility to the people?

    (a) Government   (b) Public

    (c) Private organisation   (d) None of these

21. Describe the main features of the Permanent Settlements? Write any two points.

22. How did the last Mughal emperor live the last year of his life?

23. Why do we need safeguards for minorities?

24. Why are most of the private hospital and private schools located in major cities and not in towns or rural areas?

25. Name the factors influencing agriculture.

26. Why are people considered as a resource?

27. What were the different reasons people had for not sending girls to schools? Write any three points.

28. Why did Mahatma Gandhi wanted to teach children handicraft? Write any three points.

29. What do you understand by Manual Scavenging? Explain it.

30. What are the differences between Agro-based Industries and Mineral-based Industry?

31. What are the three main factors that cause population change?

32. Describe Wood's Despatch in detail.

33. Why did William Jones feel the need to study Indian history, philosophy and law?

34. Who are called minorities? Why do we need safeguards for minorities?

35. What has government done to protect the rights of manual scavengers? Explain it.

36. Write in your own words what you understand by the word 'marginalisation'? Why Adivasis are becoming increasingly marginalised? Explain it.
37. Who were the Moderates? How did they propose to struggle against British rule?
38. How did the politics of the Radicals within the Congress different from that of the Moderates?
39. What impact did Bahadur Shah Zafar's support to the rebellion have on the people and the ruling families?
40. What do you mean by the density of population? What are the causes for the uneven distribution of population in the world?

Class: VIII
FM -50
Subject: Computer
Model paper (2025 – 26)
Time: 2Hrs

1. Choose the most suitable answer: 1x10=10

   (i)   Which of the following language is used to make dynamic web page?
           (a) HTML
           (b) CSS
           (c) JavaScript
           (d) Perl

   (ii)   Which of the following is not an example of Cloud Storage?
           (a) DOS
           (b) DropBox
           (c) OneDrive
           (d) iCloud

   (iii)   Which of the following is/are benefit of cloud computing?
           (a) Flexibility
           (b) Ease of accessibility
           (c) Share the workload of the user
           (d) All of these

   (iv)   Which of the following is a selective structure?
           (a) Identifiers, Operators
           (b) If, if-else
           (c) For, while
           (d) None of these

   (v)   Which statement is used in loops to terminate the loop?
           (a) If
           (b) Break
           (c) Continue
           (d) All of these

   (vi)   What is the input given to the functions referred to as?
           (a) Return Value
           (b) Name
           (c) Arguments
           (d) Loop

   (vii)   Which operator is used to repeat the string for a given number of times?
           (a) String concatenation operator
           (b) String replication operator
           (c) len()
           (d) None of these

   (viii) Which of the following type of AI aims to build machines that are better than human in
           every aspects?
           (a) Narrow AI
           (b) Strong AI
           (c) Super AI
           (d) None of these

(ix)   Which subset of AI lets machines see and extract meaning from the pixels of an image?
     (a) Computer Vision
     (b) Natural Language Processing
     (c) Voice Recognition
     (d) None of these

(x)   Which of the following is starting point of every application?
     (a) CV
     (b) Data
     (c) NLP
     (d) All of these

2. Answer in one or two words: 1x6=6
(i)   Name one quality that a narrow AI poses.   _____
(ii)   Which type of AI is also known as Strong AI?   _____
(iii) Name any one barrier of AI.   _____
(iv)   Which domain of AI is responsible for the analysis of images.   _____
(v)   An example of Social Media networking.   _____
(vi)   An example of AI assistant used for auto-reply.   _____

3. State whether the following statements are **True** or **False**:   1x6=6
(i)   Fyle is an expense manager app.
(ii)   Smart devices cannot be controlled by remote.
(iii) AI cannot be used to understand economic growth of the country.
(iv)   Python is an interpreter based high-level language.
(v)   Unstructured data is not easy to fit into any type of data model.

4. Answer any 5 from the given 7 questions: 2x5=10
(i)   What is data important?
(ii)   Write any two examples of AI apps.
(iii) What do you understand by control structure?
(iv)   Mention any two challenges faced while establishing Smart Cities?
(v)   Differentiate between Narrow AI and General AI.
(vi)   Define strings.
(vii) What are list in Python?

5. Write the output of the following code snippets: 2x3=6

```
(i)    L=29
       M=29
       if M>L:
            print("M is greater than L")
       elif L==M:
            print("L and M are equal")
(ii)    Sum1=0
        N = int(input("Please enter a number:"))
        for i in range(1, N+1, 1):
           Sum1=Sum1+i
           Print("\n")
         print("Sum is:", Sum1)
(iii)   num = 24894
```

```
count=0
while num!=0:
    num//=10
    count+=1
print("Total digits are: ", count)
```

6. Application based questions:.   2x2= 4

(i)   While shopping on Amazon online, Arya noticed that the website was able to predict what she was going to buy? She was fascinated and wondered how this was possible. State the reason behind it.

(ii)   Abhishek wants to print his name in Python. He noticed they it got printed in lowercase. How can he change it into uppercase?

7. Answer any 2 out of given 3 questions: 4x2=8

   (i)   Define hybrid cloud.

   (ii)   Write about any four sustainable development goals.

   (iii)   Write syntax of the following:

           (a) While Loop

           (b) Nested if Statements