Rajkamal Concept School

A Platform to Fulfill Children's Dream.

Admission Test for Session -2024-2025

Class-IX

Name:- …………………………………………………………………………………………………….

Mother's Name:- …………………………………………………………………………………………….

Father's Name:- …………………………………………………………………………………………..

Name of Previous School: …………………………………… **Village:-** …………………………………….

Post:-…………………………………….. **District:-** …………………………………………………..

State:- …………………………………….. **Pin No:-** ……………………………………………

Phone No. :- ……………………………………/………………………………………………..

General Instructions

- Students are requested to read the question carefully Before Writing Answer.
- Write Name, Fathers Name, Class, Roll No, Section, on Answer Sheet before Writing Answer.
- Average qualifying marks is 45% at least in each subject.

Subject	Full Marks	Obtained Marks
English	30	
Math	30	
Hindi	30	
Science	30	
S.st	30	

Invigilator's Signature   **Student's Signature**

Maths (30M)
Section – A (objective type)
Tick the correct answer in each of the following.
(5M)

1. $\left(\frac{-6}{7} + \frac{6}{7}\right) = ?$
   a) $\frac{12}{7}$ b) 0   c) $\frac{-12}{7}$ d) 7

2. **Which of the following is not a perfect square?**
   a) 3600   b) 6400   c) 81000   d) 2500

3. **If 113*2 is divisible by 3, then the least value of * is**
   a) 0   b) 1   c) 3   d) 2

4. $(2x + 3)(3x - 1) = ?$
   a) $6x^2 + 8x - 3$ b) $6x^2 + 7x - 3$
   c) $6x^2 - 7x - 3$ d) $6x^2 - 7x + 3$

5. $(2 - 50x^2) = ?$
   a) $2(1 - 5x)^2$ b) $2(1 + 5x)^2$
   c) $(2 - 5x)(2 + 5x)$ d) $2(1 - 5x)(1 + 5x)$

6. $\frac{4x+8}{5x+8} = \frac{5}{6}$, then x= ?
   a) 4   b) 6   c) 8   d) 12

7. **16% of a number is 12. The number is**
   a) 25   b) 50   c) 75   d) 100

8. **The two diagonals are not necessarily equal in a**
   a) Rectangle   b) square
   c) Rhombus   d) Isosceles trapezium

9. **Sum of three consecutive odd numbers is 39. Find middle number is**
   a)11   b) 12
   c)13   d) 14

10. *The frequency of 3 in 2, 3, 4, 5, 3, 5, 3 is*
    a) 3   b) 0   c) 2   d) 4

Section – B (very short type questions) (9M)

11. If $3(t - 3) = 5(2t+1)$. Then t=?

12. Find a rational number between $\frac{1}{4}$ and $\frac{1}{3}$

13. Find the value of $\left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-2} + \left(\frac{1}{4}\right)^{-2}$

14. Express 81 as the sum of 9 odd number.

15. Find the least square number which is exactly divisible by each of the number 6, 9, 15 20.

16. **Evalute: 8^3**

Section – C (Short Answer type questions) (10M)

17. **Find each of the following products:**
    (x+6) (x−6)

18. **Factorise:**
    $x^2 + 5x + 6$

19. **Solve**

$8x + 3 = 27 + 2x$

20. Two numbers are in the ratio 8:3. If the sum of the number is 143, find the numbers.

21. Find the S.P when C.P= Rs 1650 and gain = 4%

Section – D (Long Answer type questions) - (6M)

22. A tap A can fill a tank in 8 hours while tap B can fill in 4 hours. In how much time will tank be filled if both A and B opened together.

23. The parallel side of a trapezium are 25cm and 10cm , while its non parallel sides are both equal each is 13cm. Find the area of trapezium.

24. Find the volume, curved surface area and the total surface area of cylinder having base radius 10.5cm and height 18cm.

English (30M)
Section A (Reading)

A. **Read the given passage carefully and answer the question that follow: (4M)**

The Amazon Rainforest is a vast expanse of tropical rainforest in South America, covering an area of over 6 million square kilometers. It is home to an astonishing diversity of flora and fauna , including over 2,000 species of fish and over 400 species of mammals. The Amazon rainforest is an important source of oxygen for the planet , as it produces more than 20% of the world's oxygen .

Question :
i) Where is the Amazon rainforest located?
ii) How much of the world's oxygen does the Amazon rainforest produce?
iii) Write the importance of Amazon rainforest?
iv) What type of home is Amazon rainforest?

Section B (Grammar)

B. **Fill in the blanks with suitable verbs choosing from the brackets. ($2\frac{1}{2}$M)**
   i) The number of books ……… increasing (is/are)
   ii) Butter and bread …….. a good dish . (is/are)
   iii) My Principal and secretary ……. Coming here. (is/are)
   iv) He as well as his friends ……….. present there. (was/were)
   v) One of the boys …….. speaking. (was/were)

C. Fill in the blanks with suitable from of adverbs choosing from the brackets. (2½M)

i) Villagers came at 4 O'clock……… (sharp/sharply)

ii) I have not seen him……… (late/lately)

iii) Stand ……. (near/nearly)

iv) He ………. Forgets her name. (clan/cleanly)

v) My friend had come ……… (just now/justly)

D. Fill in the blanks with correct prepositions choosing from the brackets (2½M)

i) The sun shines…… day. (in/by)

ii) He left his bag ……. The bus. (in/on)

iii) My father travelles ……. Night train. (in/by)

iv) You are weak ……. English. (at/in)

v) What is the time ………. Your watch? (in/by)

E. Fill in the blanks with appropriate determiners (2½M)

i) Is there ………. Money in your pocket? (some/any)

ii) He is senior …… me. (to/than)

iii) Have you…….. problem? (some/any)

iv) I haven't ….. time. (more/much)

v) My friend lives……. To Ram's house. (next/near)

F. Tick (√) the correct option (5M)

i) She is learning how ……..
   a)to type   b) to typing c) typing d) type

ii) The train had left before I ……… the station.
   a) reach   b) was reaching
   c) reached d) reaches

iii) She ……. TV when her mother came.
   a) watch   b) watches
   c) is watching   d) was watching

iv) I went into the hostel to see what students……
   a) are doing   b) did
   c) was doing   d) were doing

v) He ……… born in 1946.
   a) is   b) has   c)was   d) had

G. Write synonyms words . (1M)

Ancient

Anxious

H. Write Antonyms word (1M)

Borrow

Ample

I. Make sentences with the following Homonyms words. (3M)

i) Effect

ii) Affect

iii) Shine

iv) Sign

v) Shed

vi) Shade

Section C (Writing)

J. Write an application to the principal of your school praying him/her to grant leave for two days to attend a marriage party. (6M)

Or

Write a short essay on any one topic.

- Advantages of trees
- Your hobby

Hindi (30M)

1. सही उत्तर का चयन करें– (5M)

i. काम चोर का समास बताइए–

क) अपादान तत्पुरूष   ख) संबंध पुरूष

ग) कर्म तत्पुरूष   घ) करण तत्पुरूष

ii. संज्ञा के स्थान पर प्रयुक्त होनेवाले शब्द कहलाते हैं–

क) अव्यय   ख) विशेषण

ग) सर्वनाम   घ) क्रिया

iii. सोहन अपनी किताब लिखता है। इसमें अपनी कौन सर्वनाम है?

क) निश्चयवाचक सर्वनाम   ख) निजवाचक सर्वनाम

ग) पुरूषवाचक सर्वनाम   घ) संबंधवाचक सर्वनाम

iv. अंग्रेजी भाषा की लिपि है–

क) पंजाबी   ख) रोमन

ग) फ़ारसी   घ) देवनागरी

v. संधि शब्द का अर्थ है–

क) पद ख) शब्द   ग) मेल   घ) विकार

2. खाली स्थान को उचित सर्वनाम से भरें– (5M)

i) ………. जैसा करेगा ………. वैसा भरेगा।

ii) शायद दरवाजे पर ………. है।

iii) वह काम …………… कर लेगी।

iv) शीघ्र जाओ और …………… बुलाकर लाओ।

v) …………… पिताजी ने आपके पास भेजा है।

3. सही कथनों के आगे (√) एवं गलत कथनों के आगे गलत का निशान लगाएँ। (5M)

i) "गिलास नीचे गिरा और टूट गया", यह सरल वाक्य है।

ii) ध्वनियों को लिखा जा सकता है।

iii)   भाषा का क्षेत्रीय रूप राष्ट्रभाषा कहलाता है।

iv)   स्पर्श व्यंजनों की संख्या 33 है।

v)   पदों का स्वतंत्र प्रयोग नहीं होता है।

4. हिन्दी वर्णमाला में कुल मूल व्यंजन वर्णों की संख्या कितनी होती है? सभी मूल व्यंजन वर्णों को क्रमवार लिखें– ($2\frac{1}{2}$M)

5. निम्नलिखित समस्त पदों का विग्रह करके समास का नाम लिखें– ($2\frac{1}{2}$M)

   पाप – पुण्य , आपबीती , लंबोदर, त्रिवेणी, कामचोर

6. स्थानांतरण प्रमाण पत्र के लिए अपने विद्यालय के प्रधानाध्यापक को एक आवेदन पत्र लिखें– (5M)

7. किसी एक विषय पर निबंध लिखें– (5M)

   i)   मोबाइल फोन के फायदे एवं नुकासान

   ii)   समाचार पत्र

Science (30M)

A. Multiple choice questions: (15M)

1. **The microbe for malaria disease is carried by**
   a) Female Anopheles Mosquito
   b) Male Anopheles Mosquito
   c) Female Aedes Mosquito
   d) Male Aedes Mosquito

2. **Coal can be formed from**
   a) sunlight   b) steam   c) fossils d) plants

3. **The process of growing different crops**
   a) crop change   b) crop rotation
   c) crop alternation   d) crop revolution

4. **What are fossils?**
   a) coal mines   b) dead remains of living organism
   c) living beings   d) kind of natural resource

5. **Disease like chicken pox and polio can be caused by**
   a) virus   b) bacteria   c) fungi   d) worms

6. **Sparkers can be seen on electric pole which wires become**
   a) loose   b) tight   c) wrinkle   d) none

7. **Heat from the sun reaches to us by**
   a) radiation   b) conduction
   c) convection   d) all of these

8. **Rainfall is measured by**
   a) rainguage   b) water level increase in ponds
   c) Increase in water table   d) Increase in sea level.

9. **Which of the following is not an adaptive feature in polar bear?**
   a) white far   b) strong sense of smell
   c) long curved and sharp claws   d) long tail

10. **A bus travels 54 km in 90 minutes. The speed of the bus is**
    a) 0.6m/s   b) 10m/s   c) 5.4m/s   d) 3.6m/s

11. **A simple pendulum takes 42 seconds to complete 20 oscillations. What is its time period?**
    a) 2.1s   b) 4.2s c) 21s   d) 8.4s

12. **Which one of the following is based on the heating effect of current?**
    a) Geyser   b) Hair dryer
    c) Immersion Rod d) All of these

13. **The path of the light is**
    a) always a straight line   b) a curved line
    c) a zig – zag line   d) depends on medium

14. **On which of the following day is world water Day observed**
    a) 22 March   b) 14 November
    c) 2 October   d)   21 December

15. **The sequence that represents the series of eating and being eaten is called**
    a) food series   b) food chain
    c) food web   d) none

B. Define the following: (6M)
   a)   Photosynthesis
   b)   Sexual Reproduction
   c)   Reflection

C. Long Answer questions (9M)
1. What is the difference between Autotrophic and Heterotrophic nutrition?
2. Distinguish between physical and chemical change.
3. Write the nature of images formed by a plane mirror.

S.St (30M)

A. Multiple choice questions (8M)

1. **Which city is famous for electronic city in India ?**
   a) Banglore   b) California
   c) Ahmadabad   d) United Kingdom

2. **Article 19 of the Indian constitution guarantees the …….**
   a) Right to life
   b) Right to pollution free environment

c) Right to freedom   d) Right to freedom of speech

3. **Raja Ram Mohan Roy founded a reform association known as :**
   a) Hindu Samaj   b) Brahma Samaj
   c) Arya Samaj   d) Satya Shodhak Samaj

4. **When did the company government introduce permanent settlement in India?**
   a) 1791 b) 1792   c) 1793 d) 1794

5. **What does sustainable development mean?**
   a) Carefully utilizing resources
   b) Meeting the requirement of the present
   c) Taking care of future generations
   d) All the above

6. **Match the following:**

Column A	Column B
i) Begum Hazrat Mahal	a) Jhansi
ii) Kunwar Singh	b) Awadh
iii) Ahmadullah Shah	c) Faizabad
iv) Rani Laxmibai	d) Bihar

   Options:-
   a) A – 2 ; B – 3 ; C – 4; D – 1
   b) A – 4 ; B – 3 ; C – 2 ; D – 1
   c) A – 2 ; B – 4 ; C – 3 ; D – 1
   d) A – 3 ; B – 4 ; C – 2 ; D – 1

7. **Who was the first governor- General of India?**
    a) Lord Mountbatten   b) Lord Dalhousie

c) Warren Hastings   d) Lord Linlithgow

8. **The existence of more than one level of government in the country is known as**
   a) unitary   b) sovereign
   c) Democracy   d) Federalism

B. **Very short answer type questions (8M)**
   1. What are the inputs of iron and steel industry?
      Or
      What does Article 24 say about child labour?
   2. Who can be eligible to contest the election of the president of India?
   3. What is an ecosystem?
   4. By whom and when Arya Mahila Samaj established?

C. **Short answer type questions (6M)**
   1. What are known as renewable and non-renewable resources? Give examples.
   2. List the fundamental Rights are guaranteed by the Indian Constitution?

D. **Long answer type questions (8M)**
   1. Describe the composition of the two Houses of parliament.
   2. Name and explain the four grades of coal.
      Or
      What are the factors influencing Agriculture? Explain.