Awasiya Rajkamal Concept School

SYLLABUS IX

SST

1. History

❖ **In this subject, you have to cover the topics as following**

- The Establishment of company power-
- Rural life and society
- Colonialism and Tribal societies
- Colonialism and Urban change
- Crafts and Industries
- The Revolt of 1857 – 58
- Education and British rule
- Women and reform
- Challenging the cast system
- The nationalist movement.
- India after Independence

2. Geography

❖ **In this subject you have to study**

- Resources- Introduction to resources types of resources
- Natural resource- Distribution, Utilization and conservation of resources
- Agriculture – types of farming , beverages, major crops development
- Industries- Based on raw materials, size and ownership.
- Human resources- Distribution of population, density of population.

3. Civics-

❖ **In this subject you have to study-**

- The Indian constitution and secularism
- Parliament and the making of laws-
- The Judiciary
- Social justice and Marginalized
- Economic presence of the government public Facilities law and social justice

HINDI

1. भाषा का स्वरूप, मौखिक– लिखित , हिन्दी भाषा का परिवार, हिन्दी एवं अन्य आधुनिक आर्य भाषाएँ हिन्दी का आधुनिक रूप , हिन्दी क्षेत्र एवं बोलियाँ , भाषा एवं व्याकरण।
2. वर्ण विचार– वर्णमाला, स्वर तथा व्यंजन वर्ण भेद एवं परिभाषा स्वर–व्यंजन उच्चारण , स्थान बारह खड़ी आदि। अनुस्वर एवं पंचमाक्षर , व्यंजन गुच्छ एवं द्वित्व व्यंजन अयोगवाह, अनुतान, बलाघात, संगम एवं लिपि।
3. वर्तनी– नियम एवं त्रुटिशोधन
4. विराम– चिह्न संपूर्ण अध्ययन ।
5. शब्द विचार सूंपर्ण अध्ययन।
6. संज्ञा, लिंग , वचन , संपूर्ण अध्ययन
7. कारक परिभाषा एवं भेद– ने चिह्न का प्रयोग
8. सर्वनाम – परिभाषा , भेद , कार्य , रूपांतर, कारक रचना
9. विशेषण– परिभाषा, कार्य, भेद, प्रविशेषण, विशेष्य–विशेषण, विधेय–विशेषणख विशेषण की रचना , तूलना एवं रूप परिवर्तन।
10. क्रिया – परिभाषा , धातु– भेद, क्रिया के कार्य एवं भेद, क्रिया के अन्य रूप।
11. वाच्य परिभाषा एवं भेद , वाच्य रूपांतरण,
12. काल–परिभाषा एवं भेद आदि।
13. अव्यय– परिभाषा एवं भेद, क्रियाविशेषण के कार्य एवं भेद, संबंध बोधक के भेद, समुच्चय बोधक के कार्य एवं भेद, विस्मयादि बोधक के कार्य एवं भेद, निपात।
14. शब्द रचना– उपसर्ग एवं प्रत्यय, तद्धित एवं कृदंत
15. संधि एवं संधि विच्छेद – भेद एवं उपभेद।
16. स्मास – परिभाषा एवं भेद– उपभेद, पुनरूक्ति,
17. शब्द रूप – पर्यायवाची , श्रुतिसम भिन्नार्थक शब्द, विलोम शब्द, अनेक शब्दों के लिए एक शब्द , अनेकार्थक शब्द , एकार्थक शब्द, ऊनार्थक शब्द।
18. मुहावरे एवं लोकोक्तियाँ
19. वाक्य विचार एवं पदबंध
20. शब्द शक्ति , रस, छंद एवं अलंकार।
21. आवेदन पत्र एवं पत्र लेखन।
22. निबंध लेखन

SCIENCE

1. Food Production
2. The Cell
3. Microorganisms
4. Reproduction
5. Synthetic Materials
6. Metals and Non Metals
7. Combustion and Fuels
8. Force and Pressure
9. Sound
10. Electricity and lighting
11. Chemical Effects of Electric Current
12. Light and Vision
13. Our Universe
14. Earthquakes
15. Natural Resources
16. Pollution of Air and Water
17. Conservation

MATH

1. Rational Numbers
2. Exponents
3. Squares and Cube Roots
4. Cubes and Cubes Roots
5. HCF and LCM
6. Average
7. Algebraic Expressions, Identities and Factorisation
8. Linear Equations

9. Percentage
10. Profit and Loss
11. Simple and Compound Interest
12. Ratio and Proportion, Direct and Inverse Variation
13. Time and Work
14. Time and Distance
15. Polygons
16. Quadrilateral and Parallelograms
17. Area and Perimeter
18. Solids
19. Volume and Surface Area
20. Probability

Note:- Reference Book:- RS Aggarwal-8

English

Noun, Pronoun, Verb, Adjective, Number, Gender, Person, Article, Tense, Voice, Narration, Comprehension , Translation, Sentence Arrangement, Antonyms, Synonyms, Idioms & Phrases , Conjunction and prepositions, Letter Writing and Essay

SAMPLE PAPER

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 advised to read the question carefully before writing the answer.
- Write Name, Fathers Name, Class, Roll No, Section, on answer sheet before writing the answer.
- Average qualifying mark is 45% in each subject.

Subject	Full Marks	Obtained Marks
Maths	50	
Science	25	
S.st	25	
English	25	
Hindi	25	

Invigilator's Signature

Student's Signature

Maths

Section:- A (Each questions of 1 Marks)

1. Find the value of K, (x-1) is the factor of $x^2 + 9x - 5 + k$
2. Find the value of m if $343^{m} = \frac{49}{7^{m}}$
3. Find the class- mark of the interval 100-110.
4. The coordinate of two points are p(4,6) and Q(-5,-7) then find (abscissa of P) – abscissa of Q).
5. If the length of the longest rod that can be placed in a room of dimension 20mX20mX10m.
6. The additive inverse of $\frac{9}{-11}$ is _____
7. (5.32 X 10^{-4}) in usual form is _____
8. The smallest square number exactly divisible by 2, 4, 6 is _____ .
9. If 3(x-3) = 5(2x+1), them x=?
10. X and Y very inversely. When x=15, then y=6. What will be the value of y when x= 9 ?

Section:- B (Each questions of 2 Marks)

I. Rajan can do a piees of work in 24 days while Amit can do it in 30 days. In how many days can they complete it, If they work together?

II. A quadrilateral has three acute angles, each measuring 75. Find the measume of the fourth angle.

III. An iron beam is 9m long, 40cm wide and 20cm high. If I cubic metre of iron weight 50kg. what is the weight of the beem?

IV. Multiply $(2x^2 - 5x + 4)$ *and* $(x^2 + 3x - 8)$

V. Find the length of each side of a square whose area is equal to the area of a rectangle of length 13.6 metres and breadth 3.4m

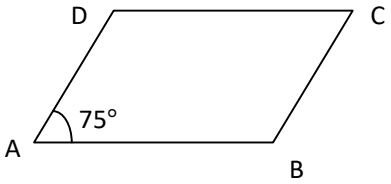
VI. By what number should $\left(\frac{1}{2}\right)^{-1}$ be multiplied so that the product is $\left(\frac{-5}{4}\right)^{-1}$?

VII. The perimeter of a triangle is $6p^2 - 4p + 9$ and two of its sides are $p^2 - 2p + 1$ and $3p^2 - 5p + 3$. Find the third side of the triangle.

VIII. If 10 be added to four times a certain number, the result is 5 less than five times the number, find the number

IX. Which is largest in $6\frac{2}{3}\%$ $\frac{3}{20}$ and 0.14?

X. In the adjoining figure, ABCD is a parallelogram in which ∠A= 75° , find the measure of each of the angles ∠B, ∠C and ∠D.



Section:- C Each questions of 5 Marks

1. The circumference of the base of a cylinder is 176 cm and its height is 65 cm. Find the volume of the cylinder and its lateral surface are.
2. A certain sum a months to Rs. 72900 in 2 years at 8% per annum compound interest, compounded annually. Find the sum
3. Manish sold a watch at 5% loss. Had he sold it for Rs 312 more, he would have gained 8%, find the selling price of the watch.
4. If x+ $\frac{1}{x}$ = 5, find the value of
   (a) $x^2 + \frac{1}{x^2}$
   (b) $x^4 + \frac{1}{x^4}$

Science

(Section-A)1×7=7-Marks

1.Which of these is a type of irrigation method that uses a system of pipes and tubes to deliver water directly to the plant roots?
a) Drip irrigation b) Sprinkler irrigation
c) Flood irrigation d) Terrace irrigation

2.Which gland secretes hormones that regulate the changes during puberty?
a) Thyroid gland b) Pituitary gland
c) Adrenal gland d) Salivary gland

3.Which type of coal is the highest grade and has the highest carbon content?
a) Peat b) Lignite
c) Bituminous coal d) Anthracite

4.When light passes from air to water, it bends. What is this bending of light called?
a) Reflection b) Refraction
c) Diffraction d) Dispersion

5. What happens when the amplitude of a sound wave increases?
a) The pitch decreases
b) The frequency increases
c) The loudness increases
d) the velocity of sound decreases

The question below consists of an assertion and a Reason. Use the following key to choose the appropriate answer.

A. If both assertion and reason are correct and reason is correct explanation of the assertion

B. If both assertion and reason are correct, but the reason is not the correct explanation of the assertion.

C. If assertion is correct, but reason is incorrect.

D. If assertion is incorrect, but reason is correct.

6.**Assertion (A):** Microorganisms are used in the preparation of curd, bread, and alcohol.
Reason (R): Some microorganisms arebeneficial and help in the process of fermentation.

7.**Assertion (A):** During the electrolysis of water, oxygen is produced at the anode.
Reason (R): Oxidation reactions always occur at the anode during electrolysis.

(Section-B)1.5×6= 9-Marks

8. What is the process of refining petroleum?

9.What is the Red Data Book?Give two examples of endangered species in India.

10.What is rolling friction and why is it less than sliding friction?

11.What is the difference between complete and incomplete combustion?

12.What are the laws of reflection of Sound ? Also draw the diagram.

13. What is the difference between viviparous and oviparous animals?

(Section-C)3×3= 9-Marks

14.Discuss the beneficial and harmful effects of microorganisms with examples.

Or

Explain the different steps involved in crop production and the management practices that ensure the healthy growth of crops.

15.Explain the concepts of force and pressure, write its formula their effects, and give examples of how pressure is applied in daily life.

Or

Explain the phenomenon of lightning, how it occurs, and the safety measures to be followed during a lightning storm.

16.Explain the formation, types, uses, and environmental impact of coal and petroleum.

Or

Explain the process of combustion, different types of combustion, and the types of flames.

S.st

Section A

1.Multiple Choice Questions (1 mark each)

i.Which of the following is NOT a fundamental right guaranteed by the Indian Constitution?
a) Right to Equality b) Right to Education
c) Right to Property
d) Right to Freedom of Speech and Expression

ii.The French Revolution began in which year?
a) 1776 b) 1789
c) 1815 d) 1917

iii.Which river is known as the 'Lifeline of Bihar'?
a) Ganga b) Kosi
c) Son d) Gandak

iv.The process of soil erosion can be reduced by:
a) Deforestation b) Overgrazing
c) Terrace farming d) Shifting cultivation

v.Which of these is a renewable resource?
a) Coal b) Petroleum
c) Natural Gas d) Solar Energy

Section B

2. Fill in the Blanks (1 mark each)

i. The capital of Arunachal Pradesh is _____.

ii. The _____ dynasty ruled over a vast empire in ancient India.

iii. The Earth rotates on its _____.

iv. _____ is the process of converting water vapor into liquid water.

v. The _____ is the supreme law of India.

Section C

3.Short Answer Questions (2 marks each)

i. What are the main causes of the Revolt 1857? (Mention any two)

ii. Explain the concept of 'secularism' in the Indian context.

iii. Differentiate between weather and climate.

iv. What are the different types of forests found in India? (Mention any two)

v. Briefly explain the key words of the Preamble to the Indian Constitution.

Section D

4. Long Answer Question (5 marks)

1. Describe the impact of the Industrial pollution. Discuss its types and give suitable example.

OR

Explain the factors that led to the rise of nationalism in India during the British rule. Discuss the role of Mahatma Gandhi in the Indian nationalist movement.

English

1. Read the passage carefully and answer the questions that follow : 1x4 M = 4M

There were four of us George and William Samuel Harris, and myself, and Montmorency . We were sitting in my room, smoking and talking about how bad we were bad from a medical point of view I mean, of course.

We were all feeling seedy , and we were getting quite nervous about i. Harris said he felt such extraordinary fits of giddiness come over him at times, that he hardly knew white he was doing ; and the George said that he had fits of giddiness too, and hardly knew what he was doing with me, it was my liver that was out of order because I had just been reading a patent, liver pill circular , in which were detailed the various symptoms by which a man could tell when his liver was out of order . I had them all .

It is a most extraordinary thing , but I never read a patent medicine advertisement without feign impelled to the conclusion that I am suffering from the particular disease therein dealt with its most virulent from. The diagnosis seems in every case to correspond exactly with all the sensations that I have ever felt.

(i) The four felt down and out because

(a) the room was too smoky
(b) they could never read a patent medicine advertisement.
(c) they thought they were ill
(d) they had experienced a mast extraordinary thing.

(ii) Whenever the speaker read a liver pill circular

(a) he suffered from an extraordinary surge of giddiness
(b) he felt sure that he had a liver disorder
(c) he felt the urge to smoke
(d) all of the above.

(iii) The author of the passage seems to be suffering from

(a) fits of morbid depression without real cause
(b) an abnormal anxiety about his health
(c) Melancholia
(d) an unnecessarily dark, gloomy and pessimistic attitude to life

(iv) Harris was troubled by

(a) a symptom of vertigo
(b) garrulity
(c) tribulation
(d) frality

2. You are Naresh / Neha of Rajkmal Concept School Dhanbad. Write an application to your principal drawing his attention to improve the hygienic conditions in your school. 5M

3. Fill in the blanks with suitable determiners : 1x4 = 4M

(i) _____ books are missing from the library. (Any/ some)
(ii) Let us save _____ (a little / little) for a rainy day.
(iii) She has not solved _____ sums. (many / any)
(iv) I didn't find _____ problems. [Some/any]

4. Change into indirect speech. 1x4 = 4M

(i) He said to me , "What is your name ?"
(ii) Ravi said to me, "Will you go for movie with me ?"
(iii) Sohan said, "Oh ! I missed the bus."
(iv) The teacher said, "The milk is white."

5. Fill in the blanks by using the correct tense form of the verbs given in brackets : 1x4 = 4M

(i) We _____ (go) to Patna by Rajdhani Express last month .
(ii) It was Krishna who _____ (inspire) Arjun by giving him upadesas of Gita
(iii) I was _____ (cook) food when he came in.
(iv) I _____ (see) a lady outside of my house yesterday.

6. Translate into English. 1x3 = 3M

(i) मोहन ने इस विद्यालय में पढ़ाई की है।
(ii) हमलोग कल बाजार से मंदिर गए थे।
(iii) क्या मोहन ने नाश्ता कर लिया है |
(iv) मेरे आने के पहले वह जा चुका था|

Hindi

1. उत्तर के सर्वोत्तम विकल्प पर (√) का निशान लगाएँ – (5M)

(क) भाषा किसका साधन है ?

(a) बोलने का (b) लिखने का

(c) पढ़ने का (d) अभिव्यक्ति का

(ख) किस विकल्प में 'र' का स्वर सहित प्रयोग हुआ है ?

(a) कर्म ,राष्ट्र (b) श्रमिक , उत्सर्ग

(c) प्रयोग , ग्रास (d) प्रार्थना , पूर्वक

(ग) 'मुनीश्वर' का सही संधि विच्छेद होगा –

(a) मुनी + श्वर (b) मुनि + ईश्वर

(c) मुनी + ईश्वर (d) मुन + ईश्वर

(घ) किस शब्द में 'अन्' उपसर्ग लगने से उसका विलोम बन जाएगा ?

(a) अंत (b) गमन

(c) अपराध (d) समय

(ङ) अंग का अर्थ शरीर का हिस्सा है तो अंक का अर्थ क्या होगा ?

(a) शरीर (b) पेट

(c) गर्दन (d) गोद

2. तीन – तीन पर्यायवाची शब्द लिखें – (3M)

पीन , आकाश , हवा ।

3. उपसर्ग एंव मूल शब्द अलग – अलग करके लिखें – (2M)

अध्यक्ष , अंतरात्मा , निर्गुण , व्यायाम

4. निम्नलिखित समस्त पद का विग्रह करके समास का नाम भी बताएँ – (3M)

चंद्रमुख , कुलश्रेष्ठ , आजन्म

5. कारक के कितने भेद हैं ? उनके नाम चिह्न सहित लिखें – (2M)

6. किसी एक विषय पर निबंध लिखें – (5M)

1. वसंत ऋतु अथवा
2. गणतंत्र दिवस

7. लाउडस्पीकारों के शोर से उत्पन्न असुविधा की ओर ध्यान आकर्षित करते हुए अपने जिला के पुलिस अधीक्षक को एक आवेदन पत्र लिखें। (5M)