Awasiya Rajkamal Concept School

Veer Kunwar Singh Colony,Mahisouri,Jamui(Bihar-811307)
Ph. No.:-7762090008

Class VI & VII

Syllabus for Entrance Test

Math

Number System, Addition , Subtraction, Multiplication, Division, Ascending and Descending order, LCM & HCF , Roman Number, Fraction, Decimal, Integers , Simplification, Algebra, Linear Equation in one Variable, Ratio, Unitary Method, Percentage, Profit & Loss , Average, Simple Interest, Menstruation

English

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

General Knowledge

- **State and Union Territories, Our Country India (Important Facts), Countries, Capitals and Currencies, Important Books & Their Authors, Classical Dances of India , Rivers & Lakes in India, National Parks & Wild Life Sanctuaries in India, Important Indian Personalities, Inventions & Inventors, The United Nation, Our Solar System & Their Planets, Our Earth Parallels & Meridians, Motion of the Earth, Introduction of Bihar. Major Landform(about mountains, plateaus , plains, deserts , and rivers), Natural Resources(Types of natural resources and their conservation), Weather and climate(about weather, climates and climatic or heat zones), Towards freedom(about revolt of 1857), India wins Freedom(how and when India became free), Environmental pollution(Cover air, water soil (land) and noise pollution), Natural Disasters(Earthquake, Volcano, floods, droughts and cyclone.**

Science

1. **What the body is made of (**Topics:- cells, tissues, organs, organ systems microorganisms)
2. **Transport and excretion (**Topics:- Heart & Blood vessels Blood, Kidneys)
3. **Bones & Muscles(**Topics Skeletal system, Muscular system)
4. **Brain & Senses(**Topics:- The brain, The spinal cord The sense organs.)
5. **Diseases(**Topics- Communicable & Non- communicable or deficiency diseases)
6. **Food habits of organisms(**Topics:- Producers, Herbivores, Carnivores Insectivores, Omnivores , Parasites, Saprophytes)
7. **Adaptations(**Topics:- Aquatic plant & Animals Desert Plant & Animals, Migration Birds)
8. **Natural resources(**Topics :- Forests and grasslands , wildlife Rocks, Metals & Non metals, soil Fuels, Air, water. Recycling, pollution)
9. **Producing & storing food(**Topics:- Ploughing, fertilizers, Sowing seeds, Irrigation, protecting crops, Harvesting, Storing)
10. **Matter(**Topics:- Atoms, Elements, compounds states of matter)
11. **Chemicals around the house(**Topics:- Acids, Bases, Salts)
12. **Synthetic materials(**Topics; Plastics synthetic fibers)
13. **Simple machines(**Topics:- Lever, pullings, Inclined planes screw, wheel & axle)
14. **Sound(**Topics:- Production & Direction of sound musical instruments)
15. **How things work(**Topics:- Electricity, Heat & Light)

हिन्दी

वर्ण, संज्ञा, सर्वनाम, विशेषण, भाषा, लिपि, लिंग, वचन , कारक, क्रिया, गद्यांश, मुहावरे, एक शब्द के बदले अनेक शब्द , विलोम शब्द , पर्यायवाची शब्द , संधि एवं समास , शुद्ध–अशुद्ध शब्द, उपसर्ग एवं प्रत्यय

Awasiya Rajkamal Concept School

A Platform to Fulfill Children's Dream.

SAMPLE PAPER

Class-VII

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

1. Mark (√) against the correct answer in each of the following :- 5M

(i) 6 – (-8) = ?
(a) -2 (b) 2 (c) 14 (d) none of these

(ii) The additive inverse of -6 is
(a) $\frac{1}{6}$ (b) $\frac{-1}{6}$ (c) 6 (d) -6

(iii) Which of the following is a vulgar fraction ?
(a) $\frac{3}{10}$ (b) $\frac{13}{10}$ (c) $\frac{10}{3}$ (d) none of these

(iv) The reciprocal of $1\frac{2}{3}$ is
(a) $3\frac{1}{2}$ (b) $2\frac{1}{3}$ (c) $1\frac{1}{3}$ (d) $\frac{3}{5}$

(v) 6 cm = ?
(a) 0.006 km (b) 0.0006 km
(c) 0.00006 km (d) none of these

2. Write 'T' for true and 'F' for false for each of the following : 5M

(i) $\frac{-15}{-1}$ lies to the left of o on the number line
(ii) $\frac{-8}{13}$ lies to the left of o on the number line .
(iii) $\frac{-4}{5} > \frac{-2}{3}$
(iv) 645 in standard form is 6.45 x 10^2
(v) 80 % of 450 = 360

3. Fill in the blanks :-5M

(i) Each angle of an equilateral triangle measures - -------
(ii) 1 hectare = ---------- m^2
(iii) The sum of the lengths of the sides of a triangle is called its _____
(iv) If 9x3^n = 3^6, then n = _____
(v) If each side of a triangle is a cm , then its area = ____ cm^2

4. Answer these question:- 10M

i. Each side of a square field is $4\frac{2}{3}$ m. Find its area

ii. A bus can cover 62.5 km in one hour. How much distance can it cover in 18 hours?

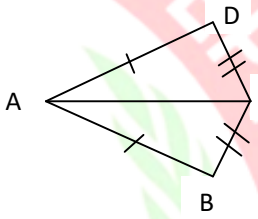
iii. Find the product $24x^2$ (1-2x) and evaluate it for x = 2

iv. Find the number whose $6\frac{1}{4}$ % is 2

v. Find the mean of first Five prime numbers .

5. Answer the following questions:- 25M

(i) In the adjoining figure AB = AD and CB = CD. prove that Δ ABC ≅ Δ ADC



(ii) Divide ₹ 12000 into two parts such that the S. I on the first part for 2 years at 6 % per annum is equal to the S.I. on the Secord part for 3 yrs at 8 % per annum.

(iii) The area of four walls of a room is 120 m^2 . If the length of the room is twice its breadth and the height is 4m . Find the area of the floor

(iv) Two poles , 18 m and 13 m high, stand upright in a playground . If their feet are 12 m apart, find the distance between their tops.

(v) Sudhir bought an almirah for ₹ 13600 and spent ₹ 400 on its transportation . He sold it for ₹ 16800. Find his gain%

Science

A. MCQ.

1. Which part of the plant is responsible for transporting water?
a) Phloem b) Xylem
c) Chloroplast d) Stomata

2. Which of the following is an example of a chemical change?
a) Melting of ice b) Cutting of paper
c) Rusting of iron d) Boiling of water

3. The finger-like projections in the small intestine that help in absorption are called:
a) Villi b) Cilia
c) Tubules d) Alveoli

4. Which of the following is an acid?
a) Vinegar b) Soap
c) Baking soda d) Milk of magnesia

5. Litmus turns blue in the presence of:
a) Acid b) Base
c) Neutral solution d) Water

B. Fill in the blanks

1. The main pigment involved in photosynthesis is _____
2. Humans have _____ type of teeth for cutting, tearing, and grinding food.
3. The change in which new substances are formed is called a _____ change.
4. The process of breaking down food to release energy is called _____.
5. The flow of electric charge is called _____.

C. Answer these questions

1. What is the reflection of light? Explain it with a diagram
2. What are the different modes of nutrition in plants?

3. Explain photosynthesis and its process.

4. Describe the human digestive system and its parts.

5. Differentiate between natural and synthetic fibres.

6. Differentiate between physical and chemical changes with examples.

7. What is the difference between weather and climate?

8. Define motion and explain the different types of motion.

9. Describe electric circuit and the components of electric circuit.

10. How can we reduce water pollution?

S.st

1. MCQ **1X5=5**

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

II.The Mughal Empire was known for its:
a) Shipbuilding b) Art and Architecture
c) Trade with China d) Military strength in Europe

III. The process of wearing away and transporting away of the earth's surface is called:
a) Weathering b) Erosion
c) Deposition d) Tectonic activity

IV. Which of the following is NOT a Fundamental Right in the Indian Constitution?
a) Right to Equality b) Right to Education
c) Right to Property d) Right to Freedom

V. The latitude that passes almost halfway through India is:
a) The Equator b) The Tropic of Cancer
c) The Tropic of Capricorn d) the Arctic Circle

2. Write "True" or "False" next to each statement. 1x6=6

I. The Mauryan Empire was founded by Chandragupta Maurya.
II. The Earth rotates on its axis, causing day and night.
III. The Amazon rainforest is located in Africa.
IV. The Indian Constitution was adopted in 1950.
V. Monsoons are seasonal winds that affect India's climate.
VI. Gautam Buddha was the founder of Jainisam.

3.SHORT ANSWER QUESTIONS 1X5=5

I. Name two hill stations in India.
II. What are the Fundamental Rights of Indian citizens?
III. Name three major rivers of India.
IV. Who was the founder of khilji dynasty?
V. When was the first battle of panipat fought?

4.LONG ANSWERS QUESTIONS 3X3=9

i.Name any two social reformers who worked for the upliftment of women in India.
ii.What are the different levels of government in India?
iii.What was the impact of the Green Revolution on India?

English

Section A (Reading)

1. Read the given passage carefully and answer the questions that follow :- (7M)

A long time ago, in a small village, there was a tradition of storytelling . Every full moon night, the villagers would gather around a bonfire, and the eldest person in the village would tell a story . These stories were not Just entertaining but also carried important life lessons. One such story was about a young boy named Arun, who learned the value of honesty. Arun once found a bag of gold coins and decided to return it to its rightful owner, despite his family's poor financial condition. His honesty was rewarded when the owner , a wealthy merchant , offered him a Job and helped his family out of poverty.

Answer the following question:-

(i) What was the tradition in the small village ?
(ii) Who would tell the story during the full moon night?
(iii) What important lesson did the story of Arun teach?
(iv) True or false
Arun kept the bag of gold coins for himself
(v) Fill in the blanks :-
Arun's honesty was _____ by the wealthy merchant.

Section B (Grammar)

2. Define Noun with suitable example and write the name of its kinds. ($2\frac{1}{2}$M)

3. Fill in the blanks with suitable article (A, An or The) where necessary . ($2\frac{1}{2}$M)

(i) She looks as stupid as ____ owl.
(ii) Sanskrit is _____ easy langhage.
(iii) Valmiki's ____ Ramayana is a sacred book.
(iv) _____ water is necessary for all living beings.
(v) Call _____ girl standing outside .

4. Fill in the blanks with suitable forms of Advers given in the brackets . ($2\frac{1}{2}$M)

(i) He found the road _____ (easy / easily)
(ii) The teacher had come ____(Just now / Justify)
(iii) He writes _____ (clean / cleanly)
(iv) He was _____ tired. (so / very)
(v) The food was _____ for ten men. (enough / very)

5. Make sentences with the given conjunctions. ($2\frac{1}{2}$M)

Therefore
Until
While
Not only ---------- but also
Whenever

6. Rearrang the Jumbled words to make meaningful sentence. (2M)

(i) hot / to / tea / is / drink / too
(ii) fine / is / everything / there

7. Write V^2 and V^3 form for the given verb. (2M)

Speak
Dig
Learn
Begin

Section C (Writing)

8. Write a short essay on any one topic . (4M)

- Your village
- Your favourite subject
- About your school where you studied previously.

Hindi

1. उचित विकल्प चुनकर लिखें – (5M)

(i) स्पर्श व्यंजन वर्ण की कुल संख्या है –
(क) 52 (ख) 33 (ग) 25 (घ) 11

(ii) निम्न में संयुक्त व्यंजन वर्ण कौन है –
(क) च्च (ख) ऋ
(ग) क्ष (घ) इनमें कोई नहीं

(iii) विद्यालय में वर्णों की कुल संख्या है –
(क) नौ (ख) आठ
(ग) ग्यारह (घ) इनमें से कोई नहीं

(iv) क्षमा का विलोम शब्द है –
(क) पश्चाताप (ख) दंड
(ग) माफी (घ) इनमें से कोई नहीं

(v) वनावट के आधार पर शब्द के कितने भेद होते है –
(क) पाँच (ख) चार
(ग) तीन (घ) दो

2. निम्न शब्दों से विशेषण बनावें $\frac{1}{2} \times 4 = 2M$

वर्ष –
इतिहास –
नीति –
विज्ञान –

3. निम्न का लिंग बदलें ($\frac{1}{2} \times 4 = 2M$)

कवि –
विदूषी –
सत्यवान –
सम्राट –

4. निम्न का दो दो पर्यायवाची शब्द लिखें – (2M)

बादल
इच्छा

5. निम्न का समास विग्रह करके समास का नाम लिखें (4x1 = 4M)

त्रिलोक –
आजन्म –
वेद पुराण –
वीणापाणि –

6. नीचे दिए गए प्रश्नों का उत्तर दें – (4 x $2\frac{1}{2}$ 10M)

(i) कारक के भेदों को उनके विभक्ति चिह्न के साथ लिखें।
(ii) राष्ट्रीय पर्व के बारे में पाँच पंक्तियाँ लिखें
(iii) अविकारी शब्द किसे कहते हैं , इनके भेदों को लिखें
(iv) अपने वर्ग शिक्षक के पास एक आवेदन पत्र लिखें जिसमें विलम्ब से विद्यालय पहुँचने के कारण वर्ग कक्ष मे प्रवेश की अनुमति की मांग है।