

ARMY PUBLIC SCHOOL

DAGSHAI

ENTRANCE EXAMINATION FOR SESSION 2018-19 FOR ADMISSION TO CLASS-IX

Time: 3 Hours

Max. Marks: 400

<u>SUBJECT</u>	<u>M.MARKS</u>	<u>M.OBTD</u>	<u>TEACHER</u>	<u>SIG</u>
ENGLISH	100	_____	_____	_____
HINDI	100	_____	_____	_____
MATH'S	100	_____	_____	_____
SCIENCE & GK	100	_____	_____	_____
TOTAL	<u>400</u>	_____	_____	_____

General Instructions:

1. The candidates are advised to fill the columns correctly.
2. The booklet is divided into four parts i.e. English, Hindi, Maths, Science & GK.
3. Candidate should check the booklet carefully and if there is any defect or discrepancy, the same should be requested for replacement.
4. The candidates are required to solve the question on the booklet only.
5. The candidates are not allowed to write or mention anything on the booklet which can reveal his/her identity.
6. There will be no negative marking for wrong answers.

TO BE FILLED IN BY APSD
CODE _____

TO BE FILLED IN BY THE CANDIDATE

Name of the Candidate: _____ Registration No. _____

Studying in Class _____ Class to which admission is sought _____

TO BE FILLED IN BY APSD
CODE _____

SUBJECT: ENGLISH

M.M. 100 marks

QI. Read the comprehension and answer the questions given below. 10

Education in India falls under the control of both the union government and the state governments, with some responsibilities lying with the union and the states having autonomy for others. Most universities in India are Union or state government controlled.

Child education is compulsory and education is provided by both the public and the private sector. India has made progress in increasing primary education attendance rate and expanding literacy to approximately two-thirds of the population. The fact that it is one of the main contributors to the economic rise of India indicates the increasing significance of Indian education system. However India continues to face stern challenges. Despite growing investment in education, 35 percent of its population is still illiterate.

1. Education in India falls under whose control?

2. By which authorities are most of the Indian universities controlled?

3. Which sectors provide education in India?

4. What indicates that progress made by India in primary education and increasing significance of India's education system?

5. Point out a major challenge India is facing in the context of basic education.

QII A word is missing in each sentence indicated with (/). Write the missing word in the given blank. 10

It is very easy to make / bowl of Russian salad.

Boil / flowers of cauliflower along

with / a kilo of shelled peas.

Dice and add / cucumbers

Peel and cube / pineapple.

- Add / sliced cherries or grapes would do. _____
- Mix / the ingredients in a glass bowl. _____
- Pour / mayonnaise over the mixture _____
- The mayonnaise must / not be too thick or too thin. _____
- Fold the mayonnaise into / mixture. _____

QIII Change the voice of the following sentences.

10

1. We must read these instructions before we begin.

2. The children may borrow the books.

3. The bridge can be crossed by travellers when the tide is low.

4. The food ought to be served by the waiters.

5. I can hear your voice till here.

6. A concert is held in our school after every six month.

7. Rohan will bring the rice for the lunch party.

8. Everyone liked the dress you wore last night.

9. The flowers were delivered on time by them.

10. I can drop you at the airport.

QIV. You recently took a hot air balloon trip described in the poster given on the next page. However, you felt there was little that tallied with the description given in the poster. Write a letter to the agency giving your feedback. Include a few suggestions for improvement. The letter should be in the formal format.

15

TAKE A TRIP ON A BALLOON

Enjoy the breathtaking experience

- Pick up and drop to/ from hotel
- Approximately 60 minutes of a hot air balloon flight
- Enjoy panoramic view of river, forest and wildlife
- Witness the exhilarating sight of the balloons being inflated and prepared for the flight
- Lemonade and snacks served at the launch site
- Internationally practised safety norms are followed



QVI. Read the following sentences and select appropriate antonyms for the underlined words. **10**

1. Overuse of the internet might cause techno anxiety and restlessness among children.
a. disuse b. underuse c. misuse
2. It is quite common for them to wake up suddenly in the night to check if there is any new mail.
a. odd b. exceptional c. unusual
3. This may cause neurological disorders, restlessness, hostility and irritation.
a. peace b. order c. wellness
4. There is always an anxiety in them to know what others are doing.
a. calmness b. control c. poise
5. They update their status on social media almost every few minutes and wait for others to comment on them.
a. delay b. misinform c. denotify
6. When people do not comment, they feel restless.
a. calm b. sleepy c. confident
7. Often this anxiety leads to aggressive behaviour, causes mood swings and leads to lack of concentration in studies.
a. meek b. friendly c. diffident
8. Such children may become introverts and may not perform well in seminars and group discussions.
a. mavericks b. socialites c. extroverts
9. Parents should monitor the use of internet by children and help them to communicate in real time as much as possible.
a. improve b. hinder c. guide
10. For grown-ups, there is a need to first identify the problem and then accept it.
a. not recognize b. not remember c. not recall

QVII. Fill in the blanks with the correct modal verb. **10**

1. I don't think I _____ be able to go.
2. I _____ to win this game to stay in the match.
3. _____ I help you?
4. I was afraid that if I asked him, he _____ refuse.
5. You _____ be punctual.
6. You _____ to return your loan.
7. You _____ speed up as the brake is not working.

8. He _____ come tomorrow, though I am not sure.
9. _____ you please lend me your cycle for a day?
10. _____ you like to have a cup of tea with me?

QVIII. Fill in the blanks with the suitable forms of the verbs given in the brackets. 10

1. She _____ for the test next time. (appear)
2. They _____ for the guest to arrive but he did not turn up.
(wait)
3. I _____ this book for many days. (read)
4. How much _____ you _____ this pen for? (buy)
5. His father _____ for Mumbai tomorrow. (leave)
6. What he says _____ no sense to us. (make)
7. I _____ to make biryani in the evening. (plan)
8. It _____ heavily today. (rain)
9. Soon she _____ the peak of success. (reach)
10. He never _____ anything lightly. (take)

QIX. Change the following sentences into indirect speech. 10

1. The girl said, "It gives me great pleasure to be here this evening."

2. The man said, "I must go as soon as possible."

3. She said, "I don't want to see any of you."

4. The teacher says, "If you work hard, you will pass."

5. He said, "I have won."

6. He said, "Let us wait for her return."

7. Alice said, "How clever I am!"

8. "Which way did she go?" asked the young man.

9. He said to me, "Where are you going?"

10. "Please wait here till I return," she told him.

प्रश्न 1... निम्नलिखित गद्यांश को पढ़कर दिए गये प्रश्नों के उत्तर लिखिए...

प्रसन्न रहना ईश्वर की सर्वोपरि भक्ति है। प्रसन्नता, मानवता को ईश्वर का दिया हुआ अनुपम उपहार है। आज के व्यक्ति को प्रसन्नता व मानसिक शांति की इतनी तलाश है, क्योंकि अधिकांश मनुष्य अपने जीवन से अप्रसन्न हैं। खुश रहना आसान नहीं है। जब तक हमारा अज्ञान रूपी अंधकार ज्ञान रूपी प्रकाश में परिवर्तित नहीं होता, तब तक आंतरिक प्रसन्नता का दिग्दर्शन नहीं हो सकता। व्यर्थ ही भविष्य की योजनाएँ बनाते रहना और अतीत की अप्रिय घटनाओं में खोए रहने की प्रवृत्ति प्रसन्नता-प्राप्ति में बाधक है। अतः सकारात्मक दृष्टिकोण अपनाते हुए वर्तमान में जीने की आदत बनानी चाहिए। प्रसन्न रहकर ही हम ईश्वर के कृपा-पात्र बन सकते हैं। यह प्रसन्नता हमें दूसरों की निःस्वार्थ भाव सेवा करने से प्राप्त होती है। कहा भी गया है कि नर सेवा से ही नारायण प्राप्त होते हैं। यही प्रसन्नता प्राप्ति का गुरुमंत्र है।

क... ईश्वर ने मानव को क्या अनुपम उपहार दिया है ?

4

ख... आंतरिक प्रसन्नता कैसे प्राप्त होती है ?

4

ग... हमें वर्तमान में जीने की आदत क्यों बनानी चाहिए ?

4

घ... प्रसन्नता प्राप्ति का गुरुमंत्र क्या है ?

4

ड... उपर्युक्त गद्यांश का उचित शीर्षक लिखिए।

4

90 2...निम्नलिखित पद्यांश को पढ़कर दिए गये प्रश्नों के उत्तर लिखिए...

मेघ आए , बड़े वन-टन के सेंवर के
 आगे -आगे नाचती -गाती बयार चली ,
 दरवाजे- खिड़कियां खुलने लगी गली- गली
 पाहुन ज्यों आए हों गाँव में शहर के।
 पेड़ झुक झुकने लगे गरदन उचकाए ,
 आँधी चली , धूल भागी घाघरा उठाए ,
 मेघ आए , बड़े वन-टन के सेंवर के
 हरसाया ताल लाया पानी परत भर के।
 मेघ आए , बड़े वन-टन के सेंवर के
 क्षितिज-अटारी गहराई दामिनी दमकी ,
 क्षमा करो गोंठ गुल गई अब धरम की
 बाँध टूटा झर-झर मिलन के अश्रु ढरके ,
 मेघ आए , बड़े वन-टन के सेंवर के

क... मेघ आए से क्या अभिप्राय है ?

4

ख... पद्यांश में रेखांकित पंक्तियों का भाव स्पष्ट कीजिए।

4

ग... मेघों के आगमन पर क्या प्रतीत होता है ?

4

घ... बरसात अधिक होने का क्या परिणाम हुआ?

4

ङ... उपर्युक्त पद्यांश का उचित शीर्षक लिखिए।

4

प्र० 3... अपने अनुज को कुसंगति से बचने की सलाह देते हुए पत्र लिखिए.....

15

या

परीक्षा में अच्छे अंक लाने पर मित्र को बधाई पत्र लिखिए.....

प्रश्न 4... निम्नलिखित में से किसी एक विषय पर 100 शब्दों में एक अनुच्छेद लिखिए.....

15

विज्ञान के बढ़ते चरण , स्मार्ट क्लास की उपयोगिता , ग्लोबल वार्मिंग के खतरे

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.....
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प्र० 5... निम्नलिखित प्रश्नों के उत्तर निर्देशानुसार लिखिए...

क... निम्न शब्दों का वर्ण-विच्छेद कीजिए..... 4
आर्थिक

नेतृत्व
ख) निम्न उपसर्ग जोड़कर दो-दो शब्द लिखिए..... 4

अध
ला

ग) निम्न वाक्यों में विराम चिह्न लगा करके लिखिए..... 4
वह क्या खूब कही

.....
राम ने कहा मुझे आज दिल्ली जाना है

.....
आप कहां रहते हो

.....
वह बाजार से फल मिटाई और दवाई लाया

घ) निम्न प्रत्यय जोड़कर दो-दो शब्द लिखिए..... 4
आवट

ता

ड) निम्नलिखित समस्त पदों का विग्रह करके समास का नाम भी लिखिए...

5

- पाठशाला
 नीलकण्ठ
 चौमासा
 यथासमय
 माता-पिता

च) संधि कीजिए ...

5

- जगत + ईश
 रमा + ईश
 सीमा + अंत
 सूर्य + उदय
 दंत + ओष्ठ

छ) निम्नलिखित मुहावरों को वाक्यों में प्रयोग कीजिए.....

4

- मन छोटा करना

 पगड़ी उतारना

 प्रथम दिल

 लोहे के चने चवाना

1. Tick (✓) the correct option in the following parts, each carries 2 marks

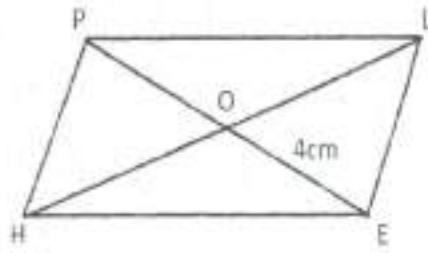
(10 x 2 = 20)

- i) Product of rational number $\frac{-2}{5}$ and its additive inverse is -
 a) 0 b) 1 c) $\frac{-4}{25}$ d) $\frac{-5}{2}$
- ii) If $\left(\frac{12}{13}\right)^4 \times \left(\frac{12}{13}\right)^8 = \left(\frac{12}{13}\right)^{2x}$, then x is equal to:-
 a) - 12 b) 6 c) 12 d) 24
- iii) Square root of 324 is:-
 a) 18 b) 22 c) 12 d) 28
- iv) Cube root of $\frac{-125}{64}$ is:-
 a) $\frac{-25}{8}$ b) $\frac{-5}{4}$ c) $\frac{-25}{4}$ d) $\frac{5}{4}$
- v) Naman buys a pen for Rs 100 and sells it for Rs 110, his profit % is:-
 a) 2% b) 5% c) 10% d) 20%
- vi) Correct formula for calculating the amount when interest is compounded annually is:-
 a) $Amount = Principal \left(\frac{1 - Rate}{100}\right)^{time}$ b) $Amount = Principal \left(\frac{1 + Rate}{100}\right)^{time}$
 c) $Amount = Principal \left(1 + \frac{Rate}{100}\right)^{time}$ d) None of These
- vii) The volume of a rectangular box whose adjacent edges are $3x^2y$, $4y^2z$ and $5z^2x$ respectively is:-
 a) $60xyz$ b) $60x^2y^2z^2$ c) $60x^3y^3z^3$ d) $17 x^3y^3z^3$
- viii) Factorization of $25a^2 - 4b^2$ is:-
 a) $(5a - 2b)^2$ b) $(5a + 2b)^2$
 c) $(5a - 2b)(5a + 2b)$ d) $(5a)^2 - (4b)^2$
- ix) Class - Mark of the class interval 40 - 50 is :-
 a) 40 b) 50 c) 90 d) 45
- x) Probability of an event E satisfies:-
 a) $-1 \leq P(E) \leq 0$ b) $0 \leq P(E) \leq 10$
 c) $0 \leq P(E) \leq 1$ d) $1 \leq P(E) \leq 2$

All the questions from Q.No. 2 to Q.No. 9 carry 4 marks each (8 x 4 = 32)

2. Two coins are tossed together. Find the probability of getting:-
i) atleast one tail ii) atmost one tail
3. Find the surface area of a cuboid with length 30cm, breadth 20cm and h = 10cm.
4. Two adjacent sides of a parallelogram are 24 cm and 18 cm. If the distance between longer sides is 12 cm, find the distance between shorter sides.

5. In the adjoining figure, HELP is parallelogram.
OE = 4 cm and HL is 5 cm more than PE? Find OH.



6. Solve the following equation:- $\frac{15}{4} - 7x = 9$

7. Find the quotient in the following case:- $9x^2y^2(3z - 24) \div 27xy(z - 8)$

8. Factorize:- $20x^2 - 45y^2$

9. Factorize:- $y^2 - 7y + 12$

All the questions from Q.No. 10 to Q.No. 17 carry 6 marks each (8 x 6 = 48)

10. If radii of two circular cylinders are in the ratio 3 : 4 and their heights are in the ratio of 6 : 5, find the ratio of their curved surface areas

11. The sum of three consecutive multiples of 8 is 888. Find the multiples.

12. If $x^2 + \frac{1}{x^2} = 27$, evaluate $x - \frac{1}{x}$.

13. Tapes A and B can fill a tank in 4 hours and 6 hours respectively and tap C at the bottom can empty it in 12 hours. If all three taps are opened together when the tank is empty, find after how many hours the tank will be full.

14. In how many years will Rs4000 amount to Rs5324 at 10% compound interest?

15. The area of rectangle is 1936 sq.m. If the length of rectangle is 4 times its breadth, find the dimensions of the rectangle.

All the questions from Q.No. 10 to Q.No. 17 carry 6 marks each (8 x 6 = 48)

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15. The area of rectangle is 1936 sq.m. If the length of rectangle is 4 times its breadth, find the dimensions of the rectangle.

16. Evaluate - $\left(\frac{2}{5}\right)^{-3} \times \left(\frac{2}{5}\right)^2 \times \left\{\left(\frac{5}{2}\right)^2\right\}^{-2} \times \frac{1}{40}$

17. Divide the sum of $\frac{8}{3}$ and $\frac{4}{7}$ by the product of $\frac{-3}{7}$ and $\frac{14}{9}$.

SUBJECT: SCIENCE & GK

M. Marks 100

SUBJECT: PHYSICS

MM: 25

Q I. Multiple choice questions -Tick the correct answer:

(1X5=5)

1. The pressure exerted by a liquid
 - a. increase with depth
 - b. remains constant irrespective of depth
 - c. decreases with depth
 - d. none of these
2. In which of the following cases, is friction a disadvantage?
 - a. Writing
 - b. Walking
 - c. Applying brakes
 - d. Running a machine
3. Hypermetropia can be corrected by using
 - a. prism
 - b. glass slab
 - c. convex lens
 - d. concave lens
4. What is the range of audible frequency for the human ear?
 - a. 3 Hz to 30000 Hz
 - b. 1 Hz to 10000 Hz
 - c. 6 Hz to 60000 Hz
 - d. 20 Hz to 20000 Hz
5. Which part of the ear transmits sound vibrations to the brain?
 - a. Cochlea
 - b. Stirrup
 - c. Eardrum
 - d. Auditory nerve

Q II. Fill in the blanks:

(1X5=5)

1. Objects that produce sound are referred to as _____.
2. A meteor is also known as the _____.
3. Moving parts of machines are oiled to _____ friction.
4. _____ is used to measure atmospheric pressure.
5. _____ is the distance between two consecutive compressions.

Q III. Answer the following questions in one word/ one sentence:

(1X5=5)

1. Give an example of a non-contact force.

2. What is torricellian vacuum?

3. What is the full form of **SONAR**?

4. Name the instrument used to measure the magnitude of earthquake.

5. What is the blind spot in human eye?

Q IV. Give one difference between:

(2X5=10)

1. Comets and asteroids

2. Rolling friction and sliding friction

3. Meteors and meteorites

4. Compression and rarefaction

5. Charging by friction and charging by conduction

Subject: Chemistry

M.M. 25

2

QI.Fill in the blanks:

1. Organic compound that contains Carbon, fluorine and chlorine is known as

2. All metallic elements have free _____ in outermost orbit.

QII. Give a scientific term / one word for the following: **2**

1. Type of plastic which cannot be remoulded once set _____

2. Chemicals derived from petroleum and natural gas. _____

QIII. Give an example of the following: **2**

1. Non electrolyte _____

2. Non metal which is lustrous _____

QIV. Find the odd one out in each of the following group: **2**

1. Aluminium, Iron, Copper, Potassium _____

2. Nylon, Rayon, Acrylic, Polyster _____

QV. Given below is a few jumbled word. Arrange it into meaningful scientific term. **1**

1. ATIONVANISGAL _____

QVI. Give one difference between: **2**

Bituminous and Bitumen

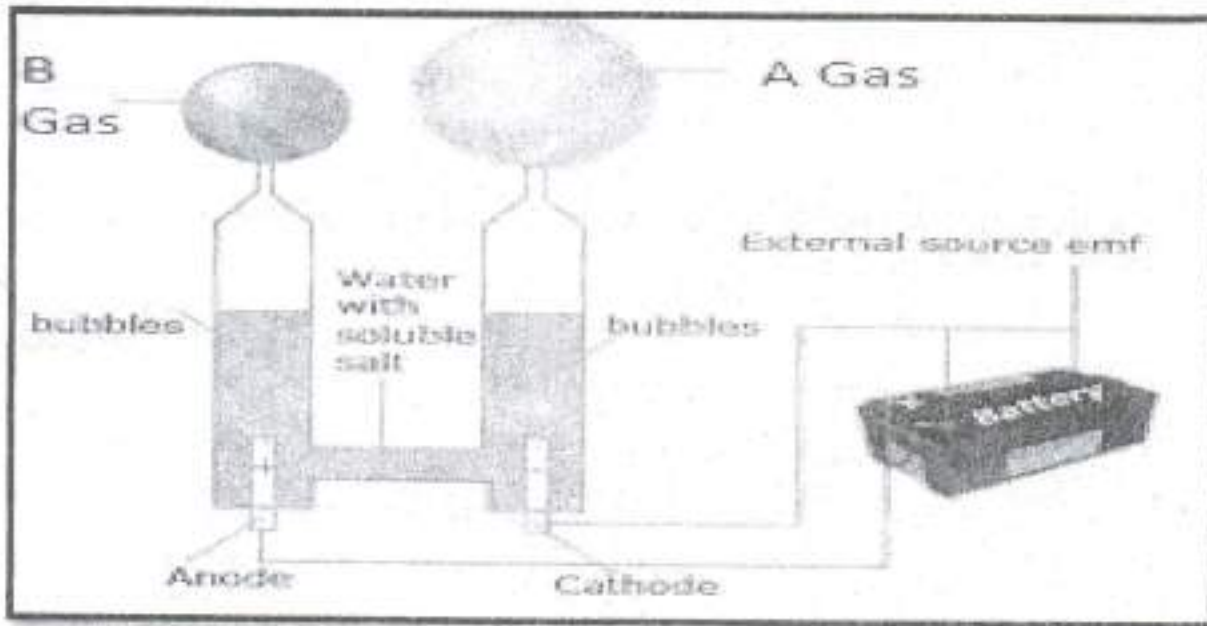
QVII. Answer the following questions: **4**

1. What happens when metal above hydrogen in reactivity series reacts with dilute acid? Explain with example.

2. Why do copper vessels develop a greenish layer when exposed to moist air?

QVIII. Diagram based question: **4**

1. Name and define the process shown in the diagram given below:



2. Name the gases 'A' and 'B' shown in the figure.

3. How cathode is different from anode?

QIX. Multiple Choice Questions—Tick the correct answer:

6

1. Which of the following is not a product of destructive distillation of coal?

- | | |
|-------------|-------------|
| a. Coal gas | b. Coal tar |
| c. Coke | d. Lignite |

2. Solution of metal oxide:

- | | |
|--|---|
| a. turns blue litmus red | b. turns red litmus blue |
| c. shows no change with red litmus paper | d. shows changes with blue litmus paper |

3. Which of the following fibre is known as 'laboratory's first gift to the loom'?

- | | |
|-------------|------------|
| a. Nylon | b. Rayon |
| c. Terylene | d. Acrylic |

BIOLOGY

M.M:25

(1x7=7)

Q.I Multiple Choice Question—Tick the correct answer:

1. The release of ovum from the ovary every month is called
 - a. ovulation
 - b. menstruation
 - c. reproduction
 - d. implantation
2. The human embryo grows and develops in the
 - a. fallopian tube
 - b. uterus
 - c. stomach
 - d. abdomen
3. Which of the following synthesizes protein?
 - a. Cell membrane
 - b. Mitochondria
 - c. Lysosomes
 - d. Ribosomes
4. Which of the following microbes is present in our intestine as a friendly microbe?
 - a. Streptococcus
 - b. Yeast
 - c. E. coli
 - d. Lactobacillus
5. A reserved forest area that offers protection to wild animals is a
 - a. Wildlife sanctuary
 - b. Zoo
 - c. Biosphere reserve
 - d. Natural habitat
6. Curdling of milk is brought about by _____ shaped bacteria.
 - a. rod
 - b. spherical
 - c. spiral
 - d. comma
7. Which of the following statements is true for a microscope?
 - a. It can minimize the size of an object.
 - b. It can magnify the part of an object kept on the slide.
 - c. It can magnify a far off object.
 - d. It can rectify shapes of object kept on a slide.

Q.II Give scientific term / one word:

(1x2=2)

1. The process of transformation of a larva to an adult. _____
2. The period of transition from a child to an adult. _____

Q. III Find the odd one out in each of the following group: (1x2=2)

1. Axon , Centrosome , Dendrite, Cell body
2. Wheat, Barley, Rye, Rice, Gram

Q.IV Match Column-I with Column-II. (1x4=4)

Column-I

- (a) Broadcasting
- (b) Fertilizer
- (c) Viral disease
- (d) Fungal disease

Column-II

- (i) Scattering of seeds
- (ii) Rust of wheat
- (iii) Potash
- (iv) Leaf curl of cotton

Ans:

(a) _____ (b) _____ (c) _____ (d) _____

Q.V Give one difference between: (2x1=2)

1. Cytoplasm and nucleoplasm

Q.VI Answer the following questions in one word/ one sentence: (2x4=8)

1. Give the function of Lysosomes.
2. Why is pituitary called the master gland?
3. Where does the embryo get implanted?
4. Write the full form of DDT.

Subject: GK

M.M. 25

QI. Answer the following questions: 10

1. Who wrote the song "Sare jahan se acha" ? _____
2. Name the first Indian who won Asian Squash Title? _____

3. Where is the head office of WHO? _____

4. Johannesburg is the largest city of which country? _____

5. Which is the longest river in the world? _____

QII. Multiple Choice Questions – Tick the correct answer:

10

1. Indian currency notes are printed at:

- | | |
|--------------|-----------|
| a. New Delhi | b. Nasik |
| c. Nagpur | d. Mumbai |

2. Which of the following country is known as 'Dairy of Northern Europe'?

- | | |
|----------------|------------|
| a. Switzerland | b. Finland |
| c. Denmark | d. Belgium |

3. Which city will host 2028 summer Olympics?

- | | |
|-----------|----------------|
| a. Paris | b. Los Angeles |
| c. Moscow | d. Berlin |

4. During whose reign Huan Tsang visited India?;

- | | |
|-----------------|-----------|
| a. Kanishka | b. Harsha |
| c. Chandragupta | d. Ashoka |

5. Who has written the book 'Ignited Minds'?

- | | |
|----------------------|------------------|
| a. A.P.J Abdul Kalam | b. K.R.Narayanan |
| c. R.Venkataraman | d. Arundhati Roy |

QIII. Name the sport to which the following sports person belong.

5

1. Abhinav Bindra

2. Jwala Gutta

3. Dipa Karmakar

4. Serena Williams

5. Mithali Raj
