

Write the correct option in front of each of the followings:

MM-25

1. I study plants.  
a) Botanist, b) Zoologist, c) Florist
2. When water vapour changes to water, it is \_\_\_\_\_.  
a) Condensation, b) Evaporation, c) Precipitation.
3. Planting more trees is called \_\_\_\_\_.  
a) Aforestation, b) Deforestation, c) Conservation.
4. Aero plane was invented by \_\_\_\_\_.  
a) Wright brothers, b) Galileo, c) A.G.Bell
5. It is used to detect the earthquake and to record its intensity.  
a) Barometer, b) Seismograph, c) Hygrometer
6. Nandan Kanan national park is located in \_\_\_\_\_.  
a) Odisha, b) Punjab, c) Kerala
7. Varanasi is situated on the bank of \_\_\_\_\_.  
a) Ganga, b) Gomti, c) Tapi
8. Kapil Dev is related with \_\_\_\_\_.  
a) Hockey, b) Cricket, c) Badminton.
9. The capital of Mongolia is \_\_\_\_\_.  
a) Ulan Bator, b) Budapest, c) Manglore.
10. The national sport of India is \_\_\_\_\_.  
a) Hockey, b) Football, c) Cricket.
11. The first Asian games were held in \_\_\_\_\_.  
a) New Delhi, b) Japan, c) China.
12. The first woman speaker of Lok Sabha is \_\_\_\_\_.  
a) Meira Kumar, b) Pratibha Patil, c) Himali
13. The people of Poland is known as \_\_\_\_\_.  
a) Polish, b) Persian, c) Danish.
14. The largest lake in the world is \_\_\_\_\_.  
a) Arabian sea, b) Superior lake, c) Caspian sea
15. The currency of UAE is \_\_\_\_\_.  
a) Dhiram, b) Taka, c) Dinar.
16. Which state is known for its forts?  
a) Rajasthan, b) Gujrat c) Delhi
17. National science day is celebrated on \_\_\_\_\_.  
a) 28 Feb. b) 24 March, c) 28 April
18. An organ which does not stop working till we die.  
a) Heart, b) Brain, c) Lung.
19. Which is the brightest star?  
a) Mars, b) Moon, c) Venus.
20. The largest Island in the world is \_\_\_\_\_.  
a) Green land, b) Finland, c) Iceland
21. Which is known as windy city?

- a) Chicago b) Tokyo c) Peris
22. Eden garden is a cricket ground in \_\_\_\_\_  
a) Mumbai, b) Chennai, c) Kolkata
23. Complete it--- Slow and steady \_\_\_\_\_  
a) Lose the race, b) wins the race, c) cannot do anything.
24. Winnie the Pooh is a \_\_\_\_\_  
a) Bear b) Tiger c) Dog
25. Panchatantra is written by \_\_\_\_\_  
a) Vishnu Gupt, b) Vishnu Sharma, c) Panini.

TIME- 1HR

MATHS

MM-50

**1- Fill in the blanks**

**[ 8 ]**

- A- 5 ten thousands + 6 thousands + 9 hundreds + 4 tens + 2 ones = \_\_\_\_\_
- B- 42364 commas in Indian System = \_\_\_\_\_,  
commas in International system = \_\_\_\_\_
- C- In 766,211 the digit 7 lies in the \_\_\_\_\_ place.
- D- 812218, 128821, 182281, 821128, 281182  
In ascending order = \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.
- E- 16 in Roman Numerals = \_\_\_\_\_
- F-  $372164 + 824347 =$  \_\_\_\_\_
- G-  $699 + 297 =$  \_\_\_\_\_. Round of the result = \_\_\_\_\_
- H-  $673254 + 726746 - 800000 =$  \_\_\_\_\_

**2- Write the answers :**

**[ 4 ]**

- A-  $6935 - 2850 =$  \_\_\_\_\_. Round of the result = \_\_\_\_\_
- B-  $1700 \times 3000 =$  \_\_\_\_\_
- C-  $218 \times 385 =$  \_\_\_\_\_
- D-  $950 \div 100$  then Quotient = \_\_\_\_\_ and Remainder = \_\_\_\_\_

**3- A. Divide 266 by 14 then check your answer.**

**[ 2 ]**

B. Multiply 135 and 8.

[ 2 ]

4- Write first 10 common multiples of 2 and 3

[ 2 ]

5- Answer the questions

[ 10 ]

A- Write all the prime numbers between 40 and 60.

B- Write the HCF and LCM of 5 and 10

C- Make any figure then divide it into two equal parts.

D- Put sign  $7/11$  \_\_\_\_\_  $9/11$

E-  $1/12 + 5/12 =$  \_\_\_\_\_ then convert it into simplest form.

6- Write the place value of 4 in 5788.045

[ 2 ]

7- Arrange in Ascending Order  
567, 675, 657, 879, 570

[ 2 ]

8- Solve

[ 4 ]

A- 32 hm 22 m + 46 dam 9 m

B-Rs. 2893.64 + Rs. 3106.78

9. Add 5 min 38 sec and 3 min 38 sec

[ 4 ]

10- line A and B are both perpendicular to a set of parallel lines. Are lines A and B parallel to each other? [ 2 ½ ]  
Show also to support your answer.

11- The area of Japan is 377812 sq. km. while that of Iran is 1648000 sq. km. By how many sq. km. is Iran bigger in size than Japan ? [ 2 ½ ]

12- If 10 toy cars cost Rs. 1700, how much does each toy car cost ? [ 2 ½ ]

13- Mrs. Ghosh weighs 61 kg. 230 gm. while her daughter weighs 8 kg. 530 gm. less than her. What is Reena's weight ? [ 2 ½ ]

TIME: 1HR.

ENGLISH

MM-50

**1) Read the following story and answer the question below.**

Birds are animals with wings and feathers. Most of them can fly. The largest birds are the ostrich. It weighs 155 kg and is eight to nine feet tall. The smallest birds is the humming birds, which is the only five cm long, its weight is the less than three grams.

The male birds are more brightly coloured than the females.

Some birds sing for pleasure. Some sing to attract their companions.

Birds eat a variety of food. Some birds eat insects and worms. Other eat grass and seeds. Sea birds catch fish. Hawks and eagles feed on small animals.

Penguins are birds that have webbed feed for swimming, but they cannot fly. They live around the shores of the Antarctica in large colonies. When the emperor penguins (a female) lays her eggs, the male penguin immediately picks it up and balances it on the top of his feet . He covers the eggs with his body to keep it warm.

Once the eggs with are hatched, the young ones huddle together to keep warm. Penguins have black and white coats which make them look like soldiers. They walk around on the shores on their webbed feet looking very funny.

**(2X5=10)**

1) What do birds eat?

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2) Why do birds sing?

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3) How does the male penguin keep the egg warm?

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4) How do penguins look while walking?

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5) How do the young ones of penguins keep warm?

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-----  
**Q2) Put a slash (/) and separate the subject and predicate. 3**

- 1) Mrs Kaur teaches us English.
- 2) August has thirty one days.
- 3) The peacock dances in the rain.

**Q3) Underline the nouns and tell their kinds 3**

- 1) Radha is dancing.
- 2) Girls like to play with dolls.
- 3) The Ganga is a holy river.

**Q4) Fill in the blanks using verbs. 3**

- 1) Roma \_\_\_\_\_ a picture.
- 2) Rohan \_\_\_\_\_ a letter. 3) The king \_\_\_\_\_ loudly

**Q5) Underline the adjectives. 3**

- 1) Lions are strong, fierce animals.
- 2) There are dark clouds in the sky.
- 3) I know a funny, fat women.

**Q6) Fill in the blanks with A, An or The 3**

- 1) \_\_\_\_\_ boy with \_\_\_\_\_ green umbrella is my cousin.
- 2) \_\_\_\_\_ lion is \_\_\_\_\_ king of \_\_\_\_\_ jungle.
- 3) Rajesh is \_\_\_\_\_ untidy boy.

**Q7) Underline the preposition. 3**

1. Aishwarya sat beside me.
2. Neena is fond of dancing.
3. The dog is hiding under the table.

**Q8) Write the plural of. 3**

1. Key -----
2. Donkey-----
3. Ox -----

**Q9) Rewrite the sentence changing the masculine gender to feminine gender. 3**

1. My uncle is a good host.  
-----
2. The actor is my son.  
-----
3. My brother knows your husband.  
-----

**Q10) Fill in the blanks with is/are/ or was/were 3**

1. Tom \_\_\_\_\_ a doctor now.
2. They \_\_\_\_\_ in England last year.
3. My father died last year. He \_\_\_\_\_ an honest man.

**Q11) Rearrange the following group of words to make sentence. 3**

1. ran ball the catch to Rahul.

\_\_\_\_\_

\_\_\_\_\_

2. barked the dog at the boy.

.....

3. harvest is Kerala festival Onam of the.

---

**Q12) Write an essay on *anyone* of the following topics.**

10

1. A rainy day.
2. A train journey.
3. My school.

2. A train journey.

3. My school.

[illegible]

Name \_\_\_\_\_

Roll No. \_\_\_\_\_

Time: 1 hour

# ENGLISH CLASS V

M.M.50

Q.1 Read the following passage and answer the questions given below:-

10

One of the best ways of exercise and enjoy that exercise is to go cycling with friends. Most of the children have their own bicycle and in order to make cycling an enjoyable experience five or six friends can get together and go cycling early in the morning to nearby areas. Not only you will exercise your bodies but you are out breathing, fresh air instead of lazing about in bed.

1) How can we make cycling an enjoyable experience ?

---



---

2) Why is Cycling important ?

---



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3) Find a word in the passage which means :

In place of \_\_\_\_\_ .

4) Give the opposite of the following words from the passage:

(i) worst : \_\_\_\_\_ (ii) enemy \_\_\_\_\_

5) Make sentences of the following words:-

(i) Experience \_\_\_\_\_

(ii) Exercise \_\_\_\_\_

Q.2 Complete these words by using 'ie' or 'ei' :-

5

(1) n \_ \_ c e

(4) bel \_ \_ ve

(2) p \_ \_ c e

(5) rec \_ \_ ve

(5) \_ \_ ght

Q.3 The following paragraph has not been edited. There is one mistake in each line. Underline each error and write your correction. The first one has been done as an example:- 3

(a) Taj Mahal was famous for its beauty. \_\_\_\_\_ is \_\_\_\_\_

(b) It is situated in Agra. \_\_\_\_\_

(c) Emperor Jahangir got is. \_\_\_\_\_

(d) built is loving memory of Mumtaj Mahal. \_\_\_\_\_



Q.4 Do as directed:-

10 ▲

(1) Father's \_\_\_\_\_ to buy this van was a wise one (noun form of the verb 'decide')

(2) I offered my friends some \_\_\_\_\_. (toys, ice-cream).

(3) Regular/be/systematic/and/your/work/in. (re-arrange the words and phrase to form meaningful sentence).

\_\_\_\_\_

(4) The clean clothes have been \_\_\_\_\_ folded. (Fill with an adverb).

(5) What is the air \_\_\_\_\_ to London. (fare, fair)

Q.5 Write a paragraph of four or five sentences about :-

5

1) The furniture in your drawing room/study room

OR

Your appearance at this moment.

---

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Q.6 Use the correct form of verbs given in brackets:-

5

1. The guests \_\_\_\_\_ dinner when the thief \_\_\_\_\_ the house. (have, enter)

2. Mr. Jain \_\_\_\_\_ the thief \_\_\_\_\_ in the ceiling. (know, hide)

3. The children \_\_\_\_\_ a story when they \_\_\_\_\_ a snake. (read, see)

4. My friend \_\_\_\_\_ along the road when she \_\_\_\_\_ the necklace.

(walk, see)

5. A cold wind \_\_\_\_\_ and people \_\_\_\_\_. (blew, shiver)

Write an Essay on any one of the following (15 lines) :-

(i) My favourite festival.      (ii) My Country – INDIA.

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NAME: \_\_\_\_\_

Roll No. \_\_\_\_\_

ET2007

**GENERAL KNOWLEDGE**  
**CLASS V**

Time: 30 Minutes

M.M.20

Do all questions:-

- Q.1 If you are shopping in Tokyo what currency would you use ? \_\_\_\_\_
- Q.2 Name the metal which is liquid at room temperature ? \_\_\_\_\_
- Q.3 In which state Ganesh Chaturthi is most popular festival ? \_\_\_\_\_
- Q.4 Anju Bobby George is associated with which game ? \_\_\_\_\_
- Q.5 Malaria is caused by bite of \_\_\_\_\_
- Q.6 Which is the longest bone in human body ? \_\_\_\_\_
- Q.7 Rani Laxmi Bai was a ruler of \_\_\_\_\_
- Q.8 Place where coins are manufactured ? \_\_\_\_\_
- Q.9 Name the sixth book in the Harry Potter series ? \_\_\_\_\_
- Q.10 In Hindu mythology which weapon does Krishna Possess ? \_\_\_\_\_
- Q.11 Name the Heavenly man made body revolving round the planet? \_\_\_\_\_
- Q.12 Statue of Liberty is situated in which country ? \_\_\_\_\_
- Q.13 Who won the Booker Prize in 2006 ? \_\_\_\_\_
- Q.14 Only Indian women who won an Olympic Medal. \_\_\_\_\_
- Q.15 First Railway line was built between Mumbai and \_\_\_\_\_
- Q.16 Which is the tallest animal ? \_\_\_\_\_
- Q.17 Write the full form of C.P.U. \_\_\_\_\_
- Q.18 "Takeshi Castle" TV Programme comes on which channel ? \_\_\_\_\_
- Q.19 Pandit Ravi Shankar plays which musical instrument ? \_\_\_\_\_
- Q.20 Name the famous garden situated inside the Rashtrapati Bhawan ? \_\_\_\_\_

ET2007

Name \_\_\_\_\_ Roll No. \_\_\_\_\_

**MATHEMATICS**  
**CLASS V**

Time: 1 hour

M.M.50

Q.1 (a)  $5 - 5 \div 5 + 6 =$  (8)

(b) Multiply the place value of 8 in 38507 by the place value of 3 in 739.

(c) Express 4 g in terms of kg. \_\_\_\_\_

(d) How many rounds does the minute hand complete in a day. \_\_\_\_\_

(e) Write an equivalent fraction of  $\frac{48}{72}$  with denominator 9 ?

(f) Which is greater  $780 \times 10$  OR  $80000 \div 10$

(g) The side of a square is 30 cm. Find its perimeter.

(h) Find the divisor when dividend is 7560 and quotient is 63 ?

Q.2 (a) Simplify  $125 \times 42 \div 7 + 450$  (2)

(b) The product of two numbers is  $16\frac{2}{3}$ . If one number is  $5\frac{5}{6}$  find the other. (3)

Q.3 Rashmi has some stamps. If she arranged them in rows of 12 or 15 or 18, 2 stamps remain. How many stamps does she have ? (4)

Q.4 (a) Change into decimal and add 8 km. 670 m and 9 km 9 m. (2)

(b) Subtract 9 hours 48 minutes from 15 hours 35 minutes. (2)

Q.5 (a) Convert  $\frac{3}{8}$  into a decimal fraction. (2)

(b) A road 6.78 km long was to be repaired by a gang of workmen. They repaired 437 meter per day for a week. How much more remained to be done. (4)

Q.6 The population of a town is 1,87,309. Out of this population 65,890 are men. If the number of women is half of men, find the number of children ? (4)

Q.7

(a) Simplify  $8\frac{5}{24} + 9\frac{5}{8} - 10\frac{5}{16}$

(1)

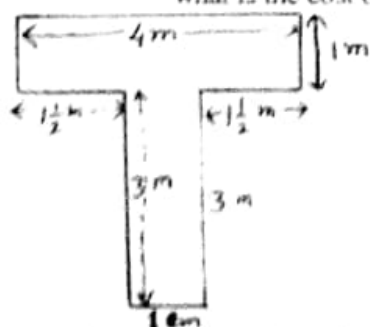
(4)

(b) A man earns Rs.  $460\frac{4}{5}$  per month. He spends  $\frac{4}{5}$  of his earnings. How much does

he save per month?

Q.8 The price of 18 table fans is Rs. 27,540. Find the cost of 1 table fan. Hence, find the cost of 25 table fans. (4)

Q.9 The figure given below is to be fenced and if the cost of fencing is Rs.5 per meter, what is the cost of fencing. (4)



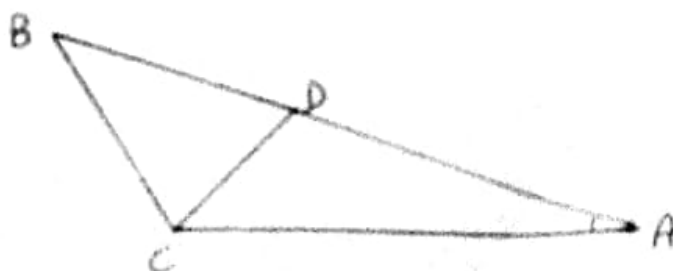
Q.10 Observe the diagram drawn below and tell about each of the following angles whether it is acute, right, obtuse or straight (4)

$\angle ACB$  \_\_\_\_\_

$\angle DCA$  \_\_\_\_\_

$\angle ADC$  \_\_\_\_\_

$\angle ADB$  \_\_\_\_\_



OAK GROVE SCHOOL  
ENTRANCE EXAMINATION 2015  
CLASS –VI SUBJECT- MATHS

MI

**Note:- Each question carries 4 marks.**

1. Arrange the following in descending orders.  $\frac{7}{4}, \frac{5}{8}, 2\frac{1}{2}, \frac{3}{16}$
2. The breath of a rectangle is half its length. If its area is  $72\text{cm}^2$ . Find its breadth.
3. Find the value of x.  
 $5:9 = 45:x$
4. Find , 6% of 5m 50cm.
5. The product of two numbers is 69. If one of the numbers is 23 ,what is the other number.
6. Mr. Fay is 1.68m tall. His son is  $\frac{5}{8}$  of his height. How tall is his son?
7. Find the product of  $\frac{3}{10}$  and 26 expressed as a decimal.
8. What is the area of one face of cube. If its volume is  $64\text{cm}^3$ .
9. A floor is 5m long and 4m wide. A square carpet of sides 3m is laid on the floor. Find the area of floor that is not carpeted.
10. Cost of 4 dozens bananas is Rs.60. How many bananas can be purchased for Rs.12.50.

ENTRANCE EXAMINATION 2015

VI

TIME: 1 HR

ENGLISH

MM 40

1. Read the poem and answer the questions that follow: (5×2=10)
- What are they thinking? The circus elephants,  
As they tramp round the ring each night?  
Do they wish that they were far away in the forest's leafy light?  
Where they'd roam at will and could eat their fill far from human sight.  
As the gentle giants perform their tricks the children stare with delight.  
But is it fair? Should they be there?  
Is keeping them captive right?
- (a) What freedom does an elephant enjoy in the forest?  
(b) Do you think that animals should be kept captive? Why/why not?  
(c) In the poem who do you think is happy, the circus elephant or the children?  
(d) What tricks do the elephants in the circus perform?  
(e) Write the rhyming words for the following words:  
(i) Night (ii) fair
2. Write a letter to your father explaining to him why you have not done well in your examination. (100-120 words) 10
- OR
- Write a letter to your uncle describing a visit to an Old Age Home.
3. Write a paragraph on any one of the following in 150 words: 10
- (a) Why I liked my school and why I disliked my school.  
(b) How I felt when my pet got lost.
4. Use the correct word given in the bracket in the following sentences: 2
- (a) Maths \_\_\_\_\_ an interesting subject. (are/is)  
(b) Neither of us \_\_\_\_\_ there. (were/was)
5. Write the verbs in the following sentences: 2
- (a) Shweta baked a large chocolate cake. \_\_\_\_\_  
(b) The Mercedes screeched to a halt at the red signal. \_\_\_\_\_
6. Fill the blanks with a/an/the. Put a [x] where no article is required: 2
- (a) Mr. Barrack Obama is \_\_\_\_\_ President of \_\_\_\_\_ United States of America.  
(b) \_\_\_\_\_ European was going to Andaman & Nicobar Islands.
7. Fill the blanks with correct preposition given in the bracket: 2
- (a) Radhika is upset \_\_\_\_\_ her result. (under/over)  
(b) There is a temple \_\_\_\_\_ our house. (beside/besides)
8. Fill the blank with correct form of the verb given in bracket: 2
- (a) We \_\_\_\_\_ (eat) Italian food at Bercos today.  
(b) The elephant \_\_\_\_\_ (trumpet) loudly.
- .....



OAK GROVE SCHOOL  
ENTRANCE EXAMINATION 2015  
CLASS VI    SUBJECT-G.K

**Note:** Each question carries 5 marks.

**MM:20**

**1.** Answer the following:

- a) Who was the first President of India ?
- b) What is the name of Indian state with the least population?
- c) Sugar disease is also called?
- d) Which is the highest water fall in the world?
- e) Which is the largest island in the world ?

**2.** Tick the correct answer:

- a) Before Delhi ,what was the capital of India during the British India?  
\* Lucknow                      \* Bombay                      \* Calcutta
- b) How many fundamental Rights are guaranteed to citizens by the Indian Constitution?  
\* Six                              \* Seven                              \* Eight
- c) The Chamber Of Secrets was written by  
\* R.L Stevenson              \* J.K Rowling                      \* Daniel Defoe
- d) Which is the biggest lake in India.  
\* Dal Lake                      \* Wular Lake                      \* Sukhna Lake
- e) Saina Nehwal is associated with which game  
\* Cricket                        \* Tennis                              \* Badminton

**3.** Match the following:

- |                        |                 |
|------------------------|-----------------|
| a) Telangana           | Uttarakhand     |
| b) Nainital            | An astronaut    |
| c) Sunita William      | Charles Babbage |
| d) Computer            | B.R Ambedkar    |
| e) Indian Constitution | 29th state      |

**4.** Fill in the blanks:

- a) An Indian state having two capital \_\_\_\_\_.
- b) State which rank first in literacy \_\_\_\_\_.
- c) A folk dance of U.P \_\_\_\_\_.
- d) On the banks of river \_\_\_\_\_ Kolkata is situated.
- e) \_\_\_\_\_ determine purity of milk.

## Entrance Examination – 2016(Total Time 2.5 hrs)

Time : 1 hour

Class VI ( Maths )

M.M: 50

Note: Each question is of 5 marks only.

1. The average attendance of 5 shows of a concert was 778. If the attendance at the first 4 shows was 821 , 691 , 812 , 767 ; what was the attendance at the fifth show ?
2. Find:  $2\frac{3}{5} - 1\frac{1}{10} - \frac{1}{4}$  .
3. The ratio of blue cars to red cars in the parking space is 5 : 7 . If there are 49 red cars , then find the number of blue cars .
4. Perimeter of a rectangle is 108 cm. If its length is 36 cm, find its breadth .
5. Amrita's sitting room is 4 m × 5 m . She wants to retiling her room using tiles of size 40 cm × 40 cm. How many tiles does she needs ?
6. A tempo covers a distance 222 km in 3 hours. Find its speed in m / s ?
7. Find the number whose 20 % is 40.
8. Which is greater:  $\left(\frac{7}{12} \div 4\right)$  or  $\left(4 \div \frac{7}{12}\right)$  ?
9. Three persons A, B and C run on a circular track in 50 sec , 60 sec and 70 sec , respectively . If they start together from the same place, when do they meet again?
- 10.Solve:  $3140 + 3600 \div (600 \times 120 \div 40)$  .

Time: 30 Min.

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Class VI (G.K.)

MM-29

All questions carry one mark each.

1. Which is the longest insect?
2. Which is the capital city of south Africa
3. Name the insect which do not have wings.
4. Who is the author of book " Experiment with Truth"
5. Where in your body is the Patella?
6. The world acoustics is related to \_\_\_\_\_
7. What is the brain of the computer?
8. What is the old name of Chennai?
9. Where is Rajiv Gandhi Sea Link?
10. Who is the present Secretary General of UN?
11. Who was Pythagoras?
12. Land of the mid night Sun is \_\_\_\_\_
13. The grass land in South Africa are called \_\_\_\_\_
14. The lines parallel to the equator are called \_\_\_\_\_
15. With which game Koneru Humpy is related?
16. Lactometer: Milk : : Altimeter : \_\_\_\_\_
17. A person who sells food and household items.
18. What is invented by Alexander Graham Bell?
19. Which city of India is known as ' Silicon Valley of India'?
20. Which instrument is played by Pt. Hari Prasad Chaurasia?

**VI ENTRANCE EXAMINATION 2016**

**TIME: 1 HR**

**ENGLISH**

**MM 50**

**1. Read the following passage carefully: (5×2=10)**

Then the swallow came back to the prince. "You are blind now," he said, "so I will stay with you always."

"No, little swallow," said the poor Prince, "you must go away to Egypt."

"No, I will stay with you always," said the swallow and he slept at the Prince's feet. All the next day, he sat on Prince's shoulder and told him stories of what he had seen in strange lands. "Dear little swallow," said the Prince, "you tell me of marvellous things but more marvellous than anything is the suffering of men and women. There is no mystery as great as misery. Fly over my city, little swallow and tell me what you see there."

Then snow came and after the snow came the frost. The streets looked as if they were made of silver. Everybody went about in furs and the little boys wore scarlet caps and skated on the ice. The poor little swallow grew colder and colder but he could not leave the Prince, he loved him too well. He picked up crumbs outside the baker's door when the baker was not looking and tried to keep himself warm by flapping his wings.

At last he knew that he was going to die. He had just enough strength to fly up to the Prince's shoulder once more. "Goodbye, dear Prince!" he murmured. "Will you let me kiss your hand?"

"I am glad that you are going to Egypt at last, little swallow," said the Prince. "You must have stayed too long here but you must kiss me on the lips, for I love you."

"It is not to Egypt that I am going," said the swallow. "I am going to the House of Death. Death is the brother of Sleep, is he not?" He kissed the Happy Prince on the lips and fell down dead at his feet.

At that moment a curious crack sounded inside the statue, as if something had broken. The fact is that the leaden heart had snapped right in two. It certainly was a dreadfully hard frost.

- a) Why did the Happy Prince want the swallow to leave?
- b) Why did the swallow not want to go?
- c) What was the Prince more interested in knowing about?
- d) Why was the swallow in a miserable condition?

e) Find the word similar to fantastic from the passage.

2. Write a letter in about 120 words to your friend describing your first day in your new school. **10**

OR

Your grandfather has not been keeping good health. Write a letter in about 120 words suggesting some ways to remain healthy.

3. Write a paragraph on any one of the following in 150 words: **10**

- (a) Importance of the rules of the road.
- (b) Good sleep for good health.

4. Use the correct word given in the bracket in the following sentences: **4**

- (a) Maths \_\_\_\_\_ an interesting subject. (are/is)
- (b) Neither of us \_\_\_\_\_ there. (were/was)

5. Write the verbs in the following sentences: **4**

- (a) Shweta baked a large chocolate cake. \_\_\_\_\_
- (b) The Mercedes screeched to a halt at the red signal. \_\_\_\_\_

6. Fill the blanks with a/an/the. Put a [x] where no article is required: **4**

- (a) Mr. Barrack Obama is \_\_\_\_\_ President of \_\_\_\_\_ United States of America.
- (b) \_\_\_\_\_ European was going to Andaman & Nicobar Islands.

7. Fill the blanks with correct preposition given in the bracket: **4**

- (a) Radhika is upset \_\_\_\_\_ her result. (under/over)
- (b) There is a temple \_\_\_\_\_ our house. (beside/besides)

8. Fill the blank with correct form of the verb given in bracket: **4**

- (a) We \_\_\_\_\_ (eat) Italian food at Bercos today.
  - (b) The elephant \_\_\_\_\_ (trumpet) loudly.
- .....

ENGLISH  
CLASS VII

Name : \_\_\_\_\_

Time: 1 hr.

Roll No. \_\_\_\_\_

M.M. 50

1. Read the following passage carefully and answer the question that follow briefly in your own words:- 10

It has been part of Nelson's prayer that the British fleet might be distinguished by humanity in the victory which he expected. Setting an example himself, he twice gave orders to cease firing upon the Redoubtable, supposing that she had struck because her great guns were silent; for as she carried no flag, there was no means of instantly ascertaining the fact. From this ship, which he had thus twice spared, he received his death. A ball fired from her mizzen top which, in the then situation of the two vessels was not more than fifteen yards from that part of the deck where he was standing, struck the epaulette on his left shoulder about a quarter after one, just in the heat of action. He fell upon his face on the spot which was covered with his poor secretary's blood. Hardy, who was a few steps from him turning round, saw three men raising him up. "They have done for me at last, Hardy !" said he. "I hope not !" cried Hardy. "Yes" he replied; "my backbone is shot through !" Yet even now not for a moment losing his presence of mind, he observed as they were carrying him down the ladder, that the tiller ropes which had been shot away, were not yet replaced and ordered that new ones should be roped immediately. Then that he might not be seen by the crew, he took out his handkerchief and covered his face and his stars. Had he but concealed these badges of honour from the enemy, England perhaps would not have had cause to receive with sorrow the news of the battle of Trafalgar.

The cockpit was crowded with wounded and dying men; over whose bodies he was with some difficulty conveyed, and laid upon a pallet in the midshipmen's berth. It was soon perceived, upon examination, that the wound was mortal. This however, was concealed from all, except captain Hardy, the Chaplain, and the medical attendants. He himself being certain, from the sensation in his back, and the gush of blood he felt momentarily within his breast, that no human care could avail him, insisted that the surgeon should leave him and attend to those to whom he might be useful.

Q.1 What is meant by "supposing that she had struck"?

Q.2 How can Nelson be said to have been partly responsible for his own death ?

Q.3 Why did Nelson insist that the surgeon should leave him and attend to others ?

Q.4 What qualities in Nelson character are revealed by this passage ?

Q.5 Who all knew that the wound of Nelson was mortal ?

2 Write a letter to your friend telling him/her about your favourite game. 10

OR

Write a letter to a newspaper, about a bad piece of road that is in need of repair.

3 Rewrite the following as directed :- (6x1) 6

i) That is the boy I was speaking \_\_\_\_\_ (fill in the correct preposition).

ii) My Uncle asked \_\_\_\_\_ brother and \_\_\_\_\_ to dinner. (fill in the correct pronoun).

iii) He said, 'Will you listen to such a man ?' (change this direct speech into indirect speech)

iv) Use the following idioms in sentences of your own to bring out their meaning:-

(a) At arm's length .....

- (b) Giving a false colouring. ....
- v) Put the articles (a, an, the) where required in the sentence.  
 Woman is more sensitive than man. ....
- vi) Correct the sentence:  
 (a) He sailed for New Yark on Monday, arriving thereon Saturday. ....
- 4 Punctuate the following sentences:- (4x1) 4
- i) he said to his disciples watch and play. ....
- ii) sailors who are generally superstitious say it is unlucky to embark on a friday. ....
- iii) how are your mohan. ....
- iv) O hamlet speak no more ....
- 5 Write an essay in about 150 words on one of the following:- 20
- i) The Book You Like Best.
- ii) Spreading Greenery for a Healthy Living.
- iii) My Greatest Wish.



MATHEMATICS  
CLASS VII

Name : \_\_\_\_\_

Time: 1 hr.

Roll No. \_\_\_\_\_

M.M. 50

NOTE :- Attempt all the questions.

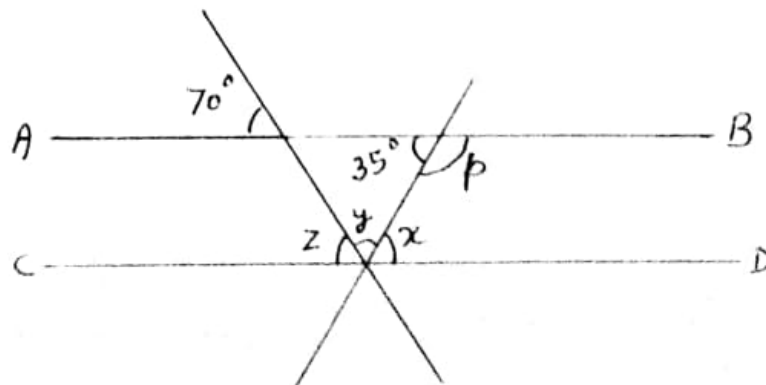
- 1 Write the (i) smallest (ii) the greatest 6 digit number having four different digits. 3
- 2 Find the complement of  $35^{\circ} 30'$  3
- 3 Find the fourth proportional to 1.5, 2.5, 4.5 4
- 4 Simplify  $10 - \{19 - 12 \div (5 + 9 \times 2 - 19)\}$  4
- 5 Solve the equation  $\frac{1-x}{6} + \frac{2x}{3} - \frac{1-7x}{4} = 2\frac{1}{6}$  4
- 6 A wooden cubical beam 5 m long and 40 cm wide contains 0.6 cubic meters of wood. How thick is the beam. 4
- 7 A train travelled at 60 Km./hr for 4 hours and then at 90 km./hr. for the next two hours. Calculate its average speed. 4

- 8 I read  $\frac{4}{9}$  of a book on one day and  $\frac{3}{5}$  of the remaining next day. If 100 pages of the book were still left unread, how many pages did the book contain ? 4
- 9 How long will it take for Rs.7500 invested at the rate of 8% per annum simple interest to amount to Rs.8850 ? 4
- 10 By selling a chair for Rs.522, a shopkeeper makes a profit of 16%. What is its cost price ? 5
- 11 Average weight of 8 students is 42 kg. A fat boy of weight 56 kg. leaves the group. What is the average weight of the remaining 7 students ? 5
- 12 Ajay can do a piece of work in 20 days and Vijay can do it in 30 days. How long will they take to do the work together. 6

OR

From the adjoining diagram find the value of angles  $x$ ,  $y$ ,  $z$  and  $p$

$AB \parallel CD$



GENERAL KNOWLEDGE  
CLASS VII

Name : \_\_\_\_\_

Roll No. \_\_\_\_\_

Time: 30 minutes

M.M. 20

NOTE :- Attempt all the questions.

1	Known as the 'Birdman of India,' _____ has been India's most renowned ornithologist till date.
2	The thighbone is the longest bone in our body. It is called the _____
3	The fear of water is known as _____
4	The Youngest President of India is _____
5	What metal is used for the filament of light bulb.
6	What is most popular beverage in the world.
7	Which science deals with the aged ?
8	What is blue crops ?
9	Pandit Ravi Shanker is associated with _____
10	Which is the land of white elephants ?
11	Give one word for a group of birds.
12	Who wrote Mudrarakshasa
13	NASA stands for _____
14	2008 Olympics will be held in which city ?
15	'Connecting people' is the media campaign for which company ?
16	In which place is NDA located ?
17	Which was the first spacecraft to orbit the moon ?
18	Who was the first woman speaker of a state assembly ?
19	Name the first financial newspaper in India ?
20	Who is the speaker of the Lok Sabha ?

**Entrance Test 2016(Total Time- 2.5hrs)**

**Time: 30 Min.**

**Class VIII (G.K.)**

**MM-20**

All questions carry 1 mark each.

1. What is unusual about the basenji breed of dog?
2. Which sea separate Africa from the Arabian peninsula?
3. How many red stripes are there in the current U.S. flag?
4. Which planet of our solar system has the least density?
5. Which is the national tree of India?
6. Who was the first to walk in space?
7. Who were the prophet Mohammad's parents?
8. The Wright brothers are credited with the first flight by man. What was their actual occupation?
9. What was the real name of Munshi Prem Chand, a Hindi writer -author of famous novel " Godan."
10. Where are Petronas towers?
11. What is the highest rank in the army?
12. What is the national emblem of Canada?
13. What is the motto of Asian games?
14. What is the total length of marathon race?
15. Name the Indian king who was a famous chess player?
16. Who set an Olympic hockey record by scoring 16 goals in Moscow in 1980?
17. In cricket who are the Grave Diggers?
18. Who was India's first captain in One Day cricket International?
19. What are three words of command use by a boxing referee?
20. A spider has eight legs. Up to how many eyes can it have?

**Time : 1 hour**

**Class VIII ( Maths )**

**MM: 50**

**Note : Each question is of 5 marks only .**

1. Arrange in descending order:  $\frac{1}{5}$ ,  $\frac{3}{7}$ ,  $\frac{7}{10}$  .
2. Find the perimeter of the rectangle whose length is 40 cm and a diagonal is 41 cm .
3. Find base of a triangle if its area is  $36 \text{ cm}^2$  and height is 3 cm .
4. If the circumference of a circular sheet is 154 cm . Find its area ? ( Take  $\pi = \frac{22}{7}$  )
5. Simplify:  $\frac{3^5 \times 10^5 \times 25}{5^7 \times 6^5}$  .
6. Write five pairs of integers ( a , b ) such that  $a \div b = - 3$  .
7. A cricketer scores the following runs in eight innings  
58 , 76 , 40 , 35 , 46 , 45 , 0 , 100 . Find the mean score .
8. Raju's father's age is 5 years more than three times Raju's age . Find Raju's age ,  
if his father is 44 years old .
9. Find the complementary angle of  $50^\circ$  and supplementary angle of  $100^\circ$  ?
10. The three angles of a triangle are in the ratio 1 : 2 : 3 . Find all the angles of the triangle .

VIII ENTRANCE EXAMINATION 2016

TIME-1HR

ENGLISH

MM 50

**General instructions:**

1. Attempt all the questions in clear and legible handwriting, adhering to the prescribed format and word limit wherever necessary.

1. Read the given passage carefully: {5×2=10}

Palamau, a drought prone area in Jharkhand, is known as the Black Shadow zone. The average rainfall here is below normal. Kaushal Kishore Jaiswal is on a mission to bring greenery back to this area. Since 2001, he has planted around 1.1 million saplings in the region. In 2008 alone he planted as many as 300000 saplings.

Jaiswal launched his mission in an interesting way during Rakhi. Rakhis strengthen the bonds between brothers and sisters and are a gesture of love and affection along with a symbol of the protection that a brother gives to his sister. He encouraged people to tie rakhis around trees in the hope that the sacred rakhis would stop the timber traders and mafia from using saws and axes on the trees and they would not be felled.

This movement was strengthened by his plantation drive. Whenever and wherever he organises a camp, he makes it a point to carry at least 10000 to 15000 saplings. Jaiswal's efforts have motivated a lot of residents in Palamau district's villages to contribute to the cause of greenery in the area. Villagers who were earlier not aware of the significance of trees and the role they play in the environment have now realised their importance. They believe that Jaiswal's mission is a much needed one in the village. People will have a better environment and their economic condition will improve with the sale of fruits and vegetables from these trees. Scores of them are committed to preserving the environment in the area and they have joined the cause of saving trees.

Jaiswal now hopes that after committing themselves to the protection of trees and the environment, the people of the region can look forward to more rainfall and more greenery. He also hopes that this place will no longer be known as a Black Shadow zone.

- a) What is the main mission of Jaiswal?
  - b) What is the condition of rainfall in Palamau?
  - c) How are rakhis used to save trees?
  - d) What is the result of Jaiswal's efforts on the people?
  - e) The word gesture in the passage means:
- .....

- i) handshake ii) show feelings iii) symbol iv) Awareness
2. Write a letter in about 150 words to the editor of The Times of India expressing your views on the food habits of the teenagers. **10**

OR

Write a letter in about 150 words to the Postmaster, Lucknow complaining about the late and irregular delivery of mail in your locality.

3. Write an article on the topic My Dream School in about 200 words. **10**

OR

Write an article on advantages and disadvantages of Life in a village in about 200 words.

4. Fill in the blanks with correct word: **[5×2=10]**
- a) He came and stood \_\_\_\_\_ his father. (after/behind)
  - b) The dog sprang \_\_\_\_\_ the cat. (upon/on)
  - c) I am angry \_\_\_\_\_ him. (upon/with)
  - d) He took revenge \_\_\_\_\_ me. (from/on)
  - e) Write \_\_\_\_\_ ink. (with/in)
5. Fill in the blank with the correct word: **[5×2=10]**
- a) \_\_\_\_\_ he is ill, he must take light food. (as long as/until)
  - b) He works hard \_\_\_\_\_ earn his living. (so that/because)
  - c) Wait here \_\_\_\_\_ I come. (unless/until)
  - d) Though he is busy \_\_\_\_\_ finds time to play. (but/yet)
  - e) Walk carefully \_\_\_\_\_ you should stumble. (or/least)
- .....

**Entrance Test 2016(Total Time-2.5 hrs)**

**Time: 30 Min.**

**Class IX (G.K.)**

**MM-20**

1. What sweet can be made from the sap of South American Sapodilla tree?
2. What flower is named after the Swedish botanist A. Dahl?
3. Are pythons poisonous?
4. In which continent is the wild dog known as the Dingo found?
5. What is the colour of the common Rhesus monkey' face?
6. Who set Bankim Chandra's Vande Mataram to music?
7. Which bird has no wing at all?
8. What is Mira Nair' film Salam Bombay about?
9. In which two cities are Nobel prizes presented?
10. Which word in science means "That which cannot be divided"?
11. In batting line up in cricket, who is a 'Jack'?
12. Complete the rallying cry of the French revolution: Liberty, Equality  
& \_\_\_\_\_
13. Which is the continent that surrounds and covers the South Pole?
14. Who was the first U.S. president to live in White house?
15. Which planet revolves in the seventh orbit around the Sun?
16. What is a giant explosion that leads to the death of a star called?
17. What did Samuel Clot invent?
18. The largest human organ is skin. What is the second largest organ?
19. Who was elected "woman of millennium" in poll conducted by BBC in  
1999?
20. He has become world's chess champion for the third time. Name the sports  
star.



Time : 1 hour

Class IX( Maths )

M. M. : 50

Note : Each question is of 5 marks only .

1. If  $\frac{1}{3}$  of a number exceeds its  $\frac{2}{7}$  by 1 . Find the number .
2. Find x such that :  $\left(\frac{7}{4}\right)^{-3} \times \left(\frac{7}{4}\right)^{-5} = \left(\frac{7}{4}\right)^{x-2}$  .
3. Find the square root of 1869 to 2 decimal places .
4. Find the value of :  $\sqrt[3]{968} \times \sqrt[3]{1375}$  .
5. Divide :  $6x^3 - x + 19x^2 - 29$  by  $2x + 3$  .
6. If  $x^2 + \frac{1}{x^2} = 38$  , find the value of  $x - \frac{1}{x}$  .
7. Factorise :  $x^2 - 11x - 80$  .
8. By selling a machine for Rs. 11400 , a dealer loses 5% . For how much should he sell this machine to gain 5% .
9. A solid cube of edge 10 cm is melted and cast into a cuboid whose base measures are 20 cm by 10 cm . Find the height of the cuboid .
10. The radius and height of a cylinder are in the ratio 5 : 7 and its volume is 550 cm<sup>3</sup> .  
Find its radius . ( Take  $\pi = \frac{22}{7}$  )

**IX ENTRANCE EXAMINATION 2016**

**TIME-1HR**

**ENGLISH**

**MM 50**

**General instructions:**

Attempt all the questions in clear and legible handwriting, adhering to the prescribed format and word limit wherever necessary.

1. As Rohit/Radhika write a letter in about 150 words to the editor of Daily Times expressing your concern about increasing number of crimes committed by teenagers. **10**

**OR**

As Shruti/Sahil write a letter in about 150 words to the editor of Hindustan Times expressing your concern over the problem of unhealthy food addiction and suggesting measures to combat the problem.

2. Write an article on the advantages of vegetarianism in life in not more than 200 words. **10**

**OR**

Write an article on the aping of the West by Indian teenagers in not more than 200 words.

3. Irrelevant reading has become a trend for the present generation. As Nisha/Nishant write a speech on the importance of reading in about 200 words. **10**

**OR**

Write a speech in favour of the topic Examinations should be abolished in about 200 words.

4. Convert the following from active to passive: **{4×2=8}**

- a) It is now time to shut the door.
- b) The litter girl laughed at the beggar.
- c) He will be taking his bath.
- d) They took no notice of me.

5. Fill in the correct option: **{4×2=8}**

- a) The horse and cart \_\_\_\_ at the door. (is/are)
- b) The wages of sin \_\_\_\_ death. (are/is)
- c) They as well as I \_\_\_\_ to blame. (was/were)
- d) Either of the two boys \_\_\_\_ done this. (have/has)

6. Convert the following to indirect speech: **{2×2=4}**

- a) The Principal said, "I want these boys to come to me today in my office."
  - b) The father said to his son, "Are you going to keep me waiting all night?"
- .....

CH - XI

ENGLISH

TIME: 1 HOUR  
MARKS 50

Q.1 Read the following passage and answer the questions that follow - (10 marks)

Punctuality is a necessary habit in all public affairs of a civilized society. Without it nothing could ever be brought to a conclusion, everything would be in a state of chaos. Only in a sparsely populated rural community is it possible to disregard it. In ordinary living there can be some tolerance of unpunctuality. The intellectual, who is working on some abstruse problem, has everything coordinated and organized for the matter in hand. She is therefore forgiven if late for the dinner party. But people ~~are~~ often reproached for unpunctuality when their only fault is cutting things fine. It is hard for energetic, quick-minded people to waste time, so they are often tempted to finish a job before setting out to keep an appointment. If no accidents occur on the way, like punctured tyres, diversion of traffic, sudden descent of fog, they will be on time. They are often more industrious useful citizens than those who are never late. The over-punctual can as much be a trial to others as the unpunctual. The guest who arrives half an hour too soon is the greatest nuisance. Some friends of my family had this irritating habit. The only thing to do was to ask them to come half an hour later than the other guests. Then they arrived just when we wanted them.

If you are catching a train, it is always better to be comfortably early than even a fraction of a minute too late. Although being early may mean wasting a little time, this will be less than if you miss the train and have to wait an hour or so for the next one. And you avoid the frustration of arriving at the very moment when the train is drawing out of the station and being unable to get on it. An even a harder situation is to be on the platform in good time for a train and still to see it go off without you. Such an experience befell a certain young girl the first time she was travelling alone. She entered the station twenty minutes before the train was due, since her parents had impressed upon her that it would be unforgivable to miss it and cause the friends with whom she was going to stay to make two journeys to meet her. She gave her luggage to a porter and showed him her ticket. To her horror he said that she was two hours too soon. She felt in her handbag the piece of paper on which her father had written down all the details of the journey and gave it to the porter. He agreed that a train did come into the station at the time on the paper and that it did stop, but only to take on water not passengers. The girl asked to see a timetable, feeling sure that her father could not have made such a mistake. The porter went to fetch one and arrived back with a flourish and pointed out a microscopic 'O' beside the time of the arrival of the train at his station. This little 'O' indicated that the train only stopped for water. Just at that moment the train came into the station. The girl, tears streaming down her face, begged to be allowed to ship into the guard's van. But the station-master was adamant : rules could not be broken. And she had to watch that train disappear towards her destination while she was left behind.

(a) ANSWER THE FOLLOWING QUESTIONS BRIEFLY :-

- i) Why is punctuality necessary in a civilized society ?
- ii) What are the dangers of leaving the bare minimum of time for appointment ?
- iii) The over-punctual can be as much a trial to others as the unpunctual. Why ?
- iv) Why did the author's family ask some guests to come half an hour later than others ?

- v) Why, according to the author is it better to wait on the platform before the train arrives ?
- vi) Find words in the passage which convey similar meaning as the following :-  
(a) blamed (b) hardworking (c) thinly.
- vii) Select three appropriate expressions from the above passage to prove that the author wants punctuality to be observed in life.

**Q.2 READ THE FOLLOWING PARAGRAPH AND FILL IN THE BLANKS WITH THE CORRECT FORM OF THE VERBS GIVEN IN BRACKETS:- (4 marks)**

The marriage procession \_\_\_\_\_ (start) when we \_\_\_\_\_ (reach) Mohan's house. While we were on way to the place, we \_\_\_\_\_ (decide) not to dance at all. But the scene \_\_\_\_\_ (prove) so attractive that we couldn't resist the attraction. All the friends \_\_\_\_\_ (begin) to force me to dance and so, I \_\_\_\_\_ (start) dancing to the tune of music. Soon we \_\_\_\_\_ (join) by other friends, including Seema, Smriti, Alok etc. I forgot for sometime that I just \_\_\_\_\_ (recover) from fever.

**Q.3 DO AS DIRECTED (6 marks)**

- I) The mason is building the wall. (change into passive voice)
- II) The work will be finished by him in a fortnight. (change into active voice)
- III) He congratulated me \_\_\_\_\_ my success. (supply a suitable preposition)
- IV) Each of the sister \_\_\_\_\_. (supply a correct verb)
- V) Neither you nor he \_\_\_\_\_ to blame. (supply a correct verb)
- VI) The wages of sin \_\_\_\_\_ death. (supply a correct verb)

**Q.4 Write a letter to the Editor of a Newspaper about the undesirability of primary school students carrying heavy bags to their school. (150 words) (15 marks)**

**Q.5 Preeti Das, a student of class XII feels highly disturbed when she reads the news item that the students of Oakfield School held a demonstration and indulged in vandalism. She decides to write an article on the importance of discipline in life for the National Daily "The Chronicle". Write the article in a maximum of 200 words. (15 marks)**

(MATHEMATICS)  
CLASS -XI

Time : 1 hr.

(50 Marks)

- Note :- 1. Do answer any 10 questions.  
2. Each questions carries 5 marks.

1. Find the values of P and q for which the following system of equations has infinite number of solutions

$$2x + 3y = 7$$

$$(P + q)x + (2P - q)y = 21$$

2. Using the properties of proportion, solve for x when :

$$\frac{x^3 + 3x}{3x^2 + 1} = \frac{341}{91}$$

3. If one root of the quadratic equation  $3x^2 - kx - 2 = 0$  is 2, find the value of k. Also find the other root.

4. If  $\frac{xz + yw}{xz - yw} = \frac{x^2 + y^2}{x^2 - y^2}$ , then prove that  $\frac{x}{y} = \frac{z}{w}$

5. If  $\alpha, \beta$  are the roots of  $2x^2 - 3x + 1 = 0$  form a quadratic equation whose roots are

$$\frac{\alpha}{\beta}, \frac{\beta}{\alpha}$$

6. A man travels 600 Km. Partly by train and partly by car. If he covers 400 km. by train and the rest by car, it takes him 6 hours and 30 minutes. But if he travels 100 Km. By train and the rest by car, he takes half an hour longer. Find the speed of train and that of the car.

7. If  $\frac{a}{b+c} = \frac{b}{c+a} = \frac{c}{a+b}$ , show that each ratio is equal to  $\frac{1}{2}$  or  $-1$

8. If  $\sec \theta = x + \frac{1}{4x}$ , prove that  $\sec \theta + \tan \theta = 2x$  or  $-\frac{1}{2x}$

- 9/ ✓ If a line is drawn parallel to one side of a triangle, prove that the other two sides are divided in the ratio using the above result find AB when in  $\triangle ABC$ ,  $DE \parallel BC$  so that  $AD = 2.4$  cm,  $AE = 3.2$  cm and  $EC = 4.8$  cm.

10/ ✓ Solve for x :

$$4 \left( x - \frac{1}{x} \right)^2 - 4 \left( x + \frac{1}{x} \right)^2 + 1 = 0$$

- 11/ ✓ A toy in the form of a right circular cylinder with a hemisphere on one end and a cone on the other. The height and radius of the base of the cylinder are 13 cm and 5 cm respectively. The radius of hemisphere and base of the conical part are same as that of the cylinder. Calculate the surface area of the toy, if the height of cone is 12 cm ( $\pi = 22/7$ ).
12. The angle of elevation of a cliff from a fixed point is  $\theta$ . After going up a distance of K meters towards the top of the cliff at an angle of  $\theta$  it is found that the angle of elevation is  $\alpha$ , show that the height of the cliff is -

$$\frac{K (\cos \theta - \sin \theta \cot \alpha)}{\cot \theta - \cot \alpha}$$

13. Ashok purchased a washing machine with a marked price of Rs. 16,500/- at a discount of 8%. If sales tax is charged at 10%, find the amount Ashok had to pay for the washing machine.

- 14/ ✓ The areas of two similar triangles are  $81 \text{ cm}^2$  and  $49 \text{ cm}^2$  respectively. If the altitude of the bigger triangle is 4.5 cm, find the corresponding altitude of the smaller triangle.

15. Find the mode and median of the following data :

8, 13, 11, 17, 8, 5, 11, 7, 15, 14, 8.

16. If  $\tan \theta + \sin \theta = a$  and  $\tan \theta - \sin \theta = b$ , show that  $a^2 - b^2 = 4\sqrt{ab}$ .

17. AB and CD are two parallel chords of a circle, which are on opposite sides of the centre, such that  $AB = 10$  cm,  $CD = 24$  cm and the distance between AB and CD is 17 cm. Find the radius of the circle.

18. Solve for x :

$$4 \left( x^2 + \frac{1}{x^2} \right) + 8 \left( x - \frac{1}{x} \right) - 29 = 0$$

**SOCIAL SCIENCE**  
**(CLASS - XI)**

Time 60 Minutes

M.M.50

General Instructions :-

This question paper is divided into 3 parts. History 20 marks, Geography 20 marks and  
Civics 10 marks. Answer should be given in different sheets for all the three subjects:-

**SECTION – A**  
**(HISTORY)**

(15 Marks)

All the questions are compulsory.

1. What factors were responsible for the rise of imperialism ? (3)
2. Describe briefly the terms of Treaty of Versailles. (3)
3. Describe briefly the growth of fascism in Italy. (3)
4. What were the failures of UNO. (3)
5. Describe the Gandhian Era in Indian politics. (3)

**SECTION – B**  
**(CIVICS)**

(10 Marks)

All the questions are compulsory.

1. Where can a citizen seek relief if his fundamental rights are violated ? (2)
2. How old must a citizen be to be eligible for (a) Voting (b) Election to a state assembly. (2)
3. How is the Indian Prime Minister chosen and appointed ? (3)
4. What are Lok Adalats ? How do they function ? (3)

**SECTION – C**  
**(GEOGRAPHY)**

(20 Marks)

All the questions are compulsory.

1. What are the subcontinent ? How did the Indian subcontinent acquire its present form ? (4)
2. Discuss the factors that influence the climate of India. (4)
3. What is meant by green revolution and white revolution ? What factors helped in their success ? (4)
4. What factors have led to the growth of the industrial regions of India. Describe with examples. (4)
5. What are dependency ratio, sex ratio, growth rate and literacy rate in India ? What are their effects ? (4)

**SECTION – D**  
**(ECONOMICS)**

(5 Marks)

All the questions are compulsory.

1. Briefly explain the complementarity of agriculture and industry ? (3)
2. What is the significance of Imports ? (2)