



Question Paper

GAT MAINS**QTM-013**Class: 6th

Maximum Marks: 200

Total No. of Questions: 10

Time allowed: 2:40 hrs.

SECTION – “A” (MATHEMATICS)**Q.1. Solve the following questions. [2x10 = 20 marks]**

- (A) Show at least with three different examples how addition and multiplication are commutative for whole numbers?

OR

The HCF of Co-prime numbers 4 and 15 was found as follows by factorization; $4 = 2 \times 2$ and $15 = 3 \times 5$, since there is no common prime factor, so HCF of 4 and 15 is 0. Is the answer correct? If not, what is the correct HCF of 4 and 15?

- (B) A bus goes from Srinagar to Jammu at 'x' km per hour. After the bus has travelled five hours Jammu is still 20 km away. What is the distance from Srinagar to Jammu? Express it using 'x'.

OR

Represent below given fractions on the separate number lines ;

a) $\frac{7}{8}$ b) $\frac{3}{4}$ c) $\frac{8}{5}$

Q.2. Solve the questions (Any three) [3x6 =18 marks]

- a. Draw a polygon ABCDEFGH and name all the sides, adjacent sides and vertices as well as the diagonals of the polygon.

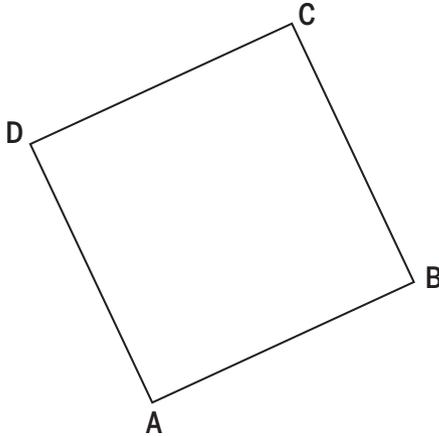
- b. Find the product using suitable properties;

i. 738×103

ii. 1005×168

- c. Where will the hand of clock stops if it starts at 5 and makes $\frac{3}{4}$ of a revolution, clockwise?

- d. Study the bellow quadrilateral carefully and write its;
 a. Opposite sides b. Opposite angles c. Adjacent angles



- e. If A,B,C are three points on a line such that AC = 5 cm, CB = 3 cm and AC = 8 cm, Which one of them lies between the other two?

Q.3. Solve the given questions. [11x2 = 22 marks]

- i. Find the value of $(-7) - 8 - (-25)$
- ii. Reduce the fraction $\frac{150}{160}$ to simplest form.
- iii. Add; $2\frac{1}{2}$ and $3\frac{2}{6}$
- iv. Fill in boxes;
 a. $\boxed{} - \frac{5}{8} = \frac{1}{4}$ b. $\frac{1}{2} - \boxed{} = \frac{1}{6}$
- v. Write as fractions in lowest terms;
 a. 0.04 b. 0.342
- vi. Taking Hibbon's present age as 'x' years, what will be his age after 9 years?
- vii. The whole number _____ is the identity for multiplication of whole numbers.
- viii. Give three pairs of prime numbers whose difference is 2.
- ix. Name the polygon with the least number of sides.
- x. A region in the interior of a circle enclosed by an arc on one side and a pair of radii on the other two sides is called a _____.
- xi. A reflex angle is _____ than a straight angle.

SECTION "B" (GENERAL SCIENCE)

LONG ANSWER TYPE QUESTIONS

Q.4. Answer the following questions. [2x10 = 20 marks]

- (A) What are the main sources of our food? Define the terms herbivores, carnivores and omnivores citing an example for each one.

OR

Write a test to show the presence of carbohydrates in a certain food.

- (B) What do you understand by "Leaf Venation"? What is reticulate venation and parallel venation?

OR

Define motion? Explain the terms periodic motion and rectilinear motion with the help of suitable examples.

SHORT ANSWER TYPE QUESTIONS

Q.5. Answer the following questions. (Any three) [3x6 = 18 marks]

- Draw the diagram of an electric cell and mark it.
- Name essential nutrients our body needs. How does "Vitamin-A" help us to remain healthy?
- Making of roti out of dough is a physical change. What change takes place when a sheet of paper is burnt?
- The inner most part of a flower is called the pistil. Draw a neat and labeled diagram of the pistil.
- Classify the following objects as;
i. Opaque ii. Translucent and iii. Transparent
iron, air, a sheet of plane glass, smoke, water, piece of wood, a sheet of polythene, fog.

VERY SHORT ANSWER TYPE QUESTIONS

Q.6. Answer the following questions. [11x2 = 22 marks]

- Give two examples of insulators.

- ii. Why man is called an omnivore?
- iii. Name some sources of iodine, phosphorus and iron.
- iv. Name the diseases which are caused by the deficiency of vitamin B1 and Vitamin D.
- v. The process of making food by plants is called _____.
- vi. What is a hermaphrodite flower?
- vii. Name two modified stems.
- viii. The length of a person is 1.65 metre. Express it into millimeters.
- ix. What is the SI unit of length?

SECTION "C" (SOCIAL STUDIES)

LONG ANSWER TYPE QUESTIONS

Q.7. Answer the following questions. [2x10 = 20 marks]

(A) What are celestial bodies? Name the eight planets of our solar system in order of their increasing distances from the sun ;

OR

What are pastures? Name some of the pastures of Kashmir.

(B) Who was Ashoka? What did he do to make the life of his people comfortable?

OR

What were the Tamil Saints called? What were their teachings?

SHORT ANSWER TYPE QUESTIONS

Q.8. Answer the given questions (Any three) [3x6 = 18 marks]

- a. Define history and mention its different sources.
- b. What are autumnal equinox and vernal equinox?
- c. What is a map? Name three pillars of maps.
- d. What do you understand by "the Civic Sense"? Give two examples of civic sense.
- e. Why is it important to live together?

VERY SHORT ANSWER TYPE QUESTIONS

Q.9. Answer these questions.

[11x2 = 22 marks]

- i. How many five year plans have been completed till date?
- ii. Who maintains the records and registers of Panchayat?
- iii. Name the countries who share their land boundaries with India.
- iv. Name the three main parallel ranges in which the Himalayan mountains are divided.
- v. What is the literacy rate of Jammu and Kashmir?
- vi. Jammu and Kashmir is divided into three climatic zones. Name them.
- vii. Who is the head of the public works department (PWD)?
- viii. Define archaeology?
- ix. What is a flint?
- x. Who defeated the last Nanda King?
- xi. Which country Heiun Tsang belonged to?

SECTION "D" (ESSAY WRITING)

Q.10. Write an essay of about 150 – 200 words on one of the given topics.

[1x20 = 20 marks]

1. Pheran—our cultural dress... should a culture be preserved?
2. Nature meets our needs not our greeds...
3. Sustainable development-your take?
4. Is prosperity possible without pollution?

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