ATOMIC ENERGY EDUCATION SOCIETY

TERM -I EXAMINATION (2017-18)

Date of Exam - 14 Sept. 2017

Subject – MATHEMATICS

Maximum Marks – 80

Class – V

Time - 3 Hours

To be filled by the student

| Name of the student: | | |
|--------------------------------|--------|----------|
| Name of the School: | | |
| Roll number: | Class: | Section: |
| | | |
| | | |
| Signature of the Invigilator : | | |
| Signature of the Examiner : | | |
| | | |

Signature of the Checker :_____ Marks Obtained

KNOWLEDGE (20 MARKS)

Fill in the gaps with the right answer.

(1x10=10)

1. The shaded portion in the following shape is _____. (write in fractions)



- 2. The number six lakh sixty is written as _____.
- 3. The number 1 crore is written as ______.
- 4. The perimeter of a square is 4 cm. The side of the square is _____.
- 5. A right angle measures ______ degrees.

- 6. ¹/₄ part of a rupee is equal to ______.
- 7. We get the number ______ when we add 1 to 99,99,999.
- 8. The length of the boundary of a shape is called its ______.
- 9. The hands of a clock make an angle of ______ at 3 o'clock.
- 10. The number ' 3' will look the same after you give a ______ turn to it.

II. Do as directed.

(2x5=10)

1. Write the first 10 multiples of 12.

2. Draw 2 more lines to complete the shape. Its area should be less than 4 square cm.



3. Write all the factors of 72.

4. Mohan took a loan of Rs.5500 from his friend. He paid back Rs.550 every month for a period of 1 year. How much did he pay back?

5. What comes next in the sequence?



UNDERSTANDING(20 MARKS)



- 4 $\frac{1}{6}$ of an hour is equal to _____ minutes.
- 5.What portion of the flag is occupied by the middle portion?

(Choose from the options given below)(one-third, less than one-third, more than one-third)



6. Which of the following has only obtuse angles?_____



II. Do as directed:

1. Look at the following shapes. Draw how they look on $\frac{1}{4}$ and $\frac{1}{2}$ turn.



3. What is the area and perimeter of the stamp? The following grid has squares of side 1cm.

| INDIAN PITTA नवर्चग | |
|---------------------|-----------|
| 25 INDIA | Area: |
| | Perimeter |

4. Colour $\frac{1}{8}$ of the following circle.



5. Given below is a rectangle. Draw 2 lines to divide it into 1 rectangle and 2 equal triangles.

What is the area of the new rectangle? ______ What is the area of each of the triangles? _____

III. Do as directed:

(4x1=4)

1. Draw the hands of the clock when they make an angle that is more than a right angle. Also write the time.



COMPUTATION (20 MARKS)

VI. Fill in the gaps with the right answer.

<u>(1x6=6)</u>

1

1. If $\overline{\mathbf{8}}$ of a collection of roses is equal to 4, then there are a total of _____roses in the collection.

2. 2 coins of half rupee and 4 coins of quarter-rupee is equal to _____rupees.

3. 10,200 + 20, 020 = _____

4. I am less than half of 100. I am a multiple of 7. The sum of my digits is 8. I am the number ______.

5. $\frac{2}{5}$ of 20 is equal to _____.

6. The area of the square given below is _____.

Area of 1 square = 1 sq.cm



VII. Do as directed:

<u>(2x5=10)</u>

1. Fill the boxes of the square using numbers from 41 to 49. Rule: The numbers on each line should add up to 135.

2. Look at the price list given below.

| Item | price/kg in rupee | |
|---------|-------------------|--|
| Potato | 46 | |
| Tomato | 60 | |
| Brinjal | 36 | |
| Peas | 86 | |
| | | |

a. What will be the cost of 1 ¼ kg brinjals?

- b. I bought some quantity of tomatoes and paid Rs. 150 for it. What quantity of tomatoes did I buy?
- 3. There are 120 children in a class. One-third of them joined Art classes and one-sixth of them joined Dance classes and the remaining children joined Sports classes. How many students joined Arts, Dance and Sports classes?
- 4. When fresh fish is dried it becomes ¹/₃ its weight. Cost of fresh fish : Rs.50 Cost of dried fish : Rs.100
- a. We get ______ kg dried fish from 150 kg fresh fish.
- b. We have to pay ______ for buying 150 kg fresh fish.
- 5. Meera had some marbles with her. She made groups of 4 and groups of 5 with them. Each time she was left with 2 seeds. What is the smallest number of marbles that Meera had?

VIII. Do as directed:

1. The following rectangle shows the number of hours in a day.



Sumanth plays for 1/12 of the day. Show the number of hours by colouring the squares in green.

He studies for 1/8 of the day. Colour the number of hours blue.

He sleeps for $\frac{1}{4}$ of the day. This is equal to _____ hours.

PROBLEM SOLVING (20 marks) I. Fill in the gaps with the correct answer. (1x6=6)

- $\frac{1}{2}$
- 1. Which among the following will look the same on $\overline{\mathbf{s}}$ turn? Put a ($\sqrt{}$) mark on it.



2. In the sequence given below, the shape rotates each time by ______degrees in the ______ direction.



3. Which of the following word looks the same on half a turn? Tick it.

MOON BIB SWIMS DEED

4. Look at the shape given below. Draw a line on the shape in the box to show where you will keep a mirror to get the shape given next to it.



5. The following pattern is formed by shading ______ portion of the shape.

6. Do as directed:

The following tile pattern is made using two different kinds of tiles. Circle the 2 tiles that are used for making this pattern.



II. Do as directed:

(2x5=10)

 Mr. Ram wants to tile the floor of a room. The size of the room is 8 feet x 16 feet. He has tiles of sizes : 2 feet x 3 feet, 2 feet x 4 feet and 3 feet x 3 feet. Which size of the tile should he choose so that he can lay them without cutting?

- 2. Three friends Raju, Tara and Ravi are at the number 1. Raju jumps 2 steps at a time, Tara jumps 3 steps at a time and Ravi jumps 4 steps at a time. At which number will all the three friends meet for the first time?
- 3. Write the factor tree for 64.



4. Study the number pattern and complete it.
1 x 9 - 1 = 08
21 x 9 - 1 = 188
321 x 9 - 1 = 2888
4321 x 9 - 1 = ______
54321 x 9 - 1 = ______
x 9 - 1 = ______
x 9 - 1 = ______

5. Vani bought a cake for seven and a half rupees. She gave the shopkeeper a 10-rupee note and he gave her the change. If the shopkeeper gave her the money back in half and quarter rupee coins, what coins would she have got?

IX. III. Do as directed:

(4x1=4)



