ATOMIC ENERGY EDUCATION SOCIETY
Anushaktinagar, Mumbai – 400094.
SUMMATIVE ASSESSMENT – 2 (2016-17)

CLASS: VI   Time: $2\frac{1}{2}$ HOURS

SUB: MATHEMATICS   Date: 06.03.2017   Max. Marks: 90

I. MULTIPLE CHOICE QUESTIONS: **(10 × 1= 10 marks)**

Q Choose the correct option from the following questions:-

 1) The face value of 9 in 4598.6

   a) 90   b) 0.09   c) 9   d) 0.9

 2) Area of a square with side 40cm is

   a) 80cm   b) 160cm^2 c) 80cm^2 d) 1600cm^2

3) The algebraic expression for, 6 times of Y subtracted from 7 is

   a) 7-6Y   b) 6Y-7   c) 6-7Y   d) 7Y-6

4) The ratio of 25 kg to 30000gm is

   a) 6:5   b) 5:6   c) 2:3   d) 5:3

5) A parallelogram has ------------ lines of symmetry

   a) 1   b) 2   c) 4   d) 0

6) If line segment PQ is bisected at M and PM = 3cm then PQ =   -----

   a)   3cm   b) 6cm   c) 9cm   d) 1.5cm

7) If the perimeter of a regular octagon is 80cm then its side is

   a) 10cm   b) 8cm   c) 16cm   d) 640cm

8) 90cm= -----m

   a) 90000   b) 9000000   c) 0.9   d) 0.09

9) If   x – 5 = 4 then x = ----

   a) 9   b) 1   c) 20   d) 5

10) 2.380 - 1.32 = -----

   a) 12.6   b) 1.06   c) 126   d) 10.06

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II. ANSWER THE FOLLOWING   **(12 × 2 = 24 marks)**

11. Arrange in ascending order.
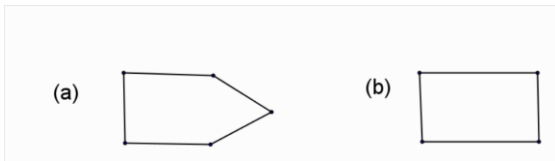
    2.01,   2.032,   20.03,   0.203,   20.21

12. Subtract   71.05 from 125. 07

13. Arrange the following data in a table using tally marks.

    3, 2, 5, 4, 1, 3, 2, 2, 5, 3, 1, 2, 1, 1, 2
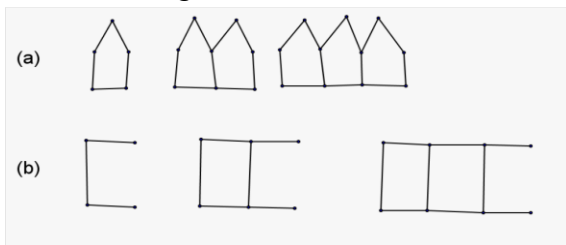
14. Draw the rough sketch of the given figures and show their lines of symmetry. How many
    lines of symmetry do the following figures have?

15. Find the perimeter of a rectangle whose length and breadth are 150 cm and 1.25 m respectively.

16. The area of a rectangular piece of card board is 36sq cm and its length is 9cm. what is the width of
    the card board?

17. Write the general rule for the number of match sticks required for 'n' such patterns.

18. If 4 is subtracted from five times of a number, the result is 76. Write the algebraic equation for the
    given statement. Express the equation by assuming the number as 'n'.

19. Check whether 33, 121, 9 and 96 are in proportion.

20. Draw a triangle which has (a) exactly one line of symmetry.   (b) no line of symmetry.

21. Draw a line segment AB of length 7cm. Construct its perpendicular bisector using compass and
    ruler.

22. A rectangular plot with length 16 m has perimeter 40 m. Find the ratio of length to breadth.
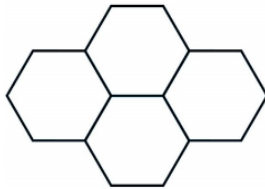
III ANSWER THE FOLLOWING (12 X 3 = 36 marks)

23. Find the sum: $135.037 + 101.008 + 77.091$.

24. Write as decimal (a) $900 + 70 + 6 + \dfrac{5}{100} + \dfrac{4}{1000}$

    (b) $500 + 30 + \dfrac{7}{100}$

25. The following are the number of electric bulbs purchased for a hotel during the first four months of a year. Represent the details by a pictograph. (Use "B" as symbol to represent 5 bulbs)

Months	Number of bulbs
January	20
February	25
March	30
April	10

26. Sweety runs around a square park of side 75m. Bulbul runs around a rectangular park with length 60m and breadth 45m. Who covers less distance?

27. Four regular hexagons are drawn so as to form the design as shown in the given fig. Find perimeter of   the design, if its side is 3cm each.

28. Complete the table and find a solution to the equation $x + 9 = 17$.

X	1	2	3	4	5	6	7	8	9
X+ 9									

29. Write the number of lines of symmetry in <u>each letter</u> of the word "RADIUS".

30. Toni has 'm' marbles. His elder sister Soni has 7 marbles more than Toni and his younger brother Moni has twice as many as marbles that Toni has. How many marbles do they have together?

31. Divide 240 into two parts in the ratio of 3 : 5.

32. Cost of 70 envelopes is Rs.35. How many envelopes can be purchased for Rs.10?

33. Draw a rough sketch of the following.
    (a) A triangle with a horizontal line of symmetry but no vertical line.
    (b) A hexagon with exactly two lines of symmetry.

34. Draw a line segment PQ. Take any point R not on it. Through R, draw perpendicular to PQ.
    (use ruler and compass) .

IV ANSWER THE FOLLOWING   **(5 × 4 = 20 marks)**

35. Nupur's school is 22 km 500 m from her house. She covers 2 km 250 m by car, 18 km by bus and rest on foot. Find the distance she covers on foot.

36. Five square flower beds each of sides 2 m are dug on a piece of land 6 m long and 4 m wide. What is the area of the remaining part of the land?

37. John is 50 years old, his son is 15years old. Write down the ratio between their ages
     (a) 5 years ago   (b) at present   (c) after 5 years.

38. Construct an angle 75^0 using compass and ruler.

39. The number of electrical units consumed by a family in five consecutive months of a year is shown below.

Month	January	February	March	April	May
No of units	60	100	120	120	30

Draw a bar graph to represent the above information choosing the scale of your choice.

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