MATHEMATICS
SAMPLE TEST PAPER (SEMESTER II)
CLASS VIII

Class:8                                                                                                                      Max Mks:45
Time :2hrs                                                  No of pages: 2

General Instructions:
✓ All questions are compulsory.
✓ Questions 1 to 5 carry 1mark each.
✓ Questions 6 to 12 carry 2 mark each.
✓ Questions 13 to 14 carry 3 mark each.
✓ Questions 15 to 19 carry 4 mark each.

1. Each interior angle of a polygon is 108$^0$. how many sides does it have ?
   (a) 8    (b) 7    (c) 6    (d) 10

2. The diagonal do not necessarily intersect at right angles in a
   (a) parallelogram   (b) rectangle (c) rhombus   (d) kite

3. Area of triangle = __________

4. A die is thrown. What is the probability of getting an even number
   (a) 1/2    (b) 2/3    (c) 1/5    (d) 2/5

5. Find the measure of each interior angle of a regular nonagon

6. Three angles of a quadrilateral are equal and the measure of the fourth angle is 120. Find the
   measure of each of the equal angles

8. ABCD is a parallelogram AO and BO are the bisectors of angle A and B respectively prove that
   angle AOB = 90$^0$

9. Construct a quadrilateral ABCD in which AB = 3.5 cm BC= 3.2 cm  CD = 2.7 cm , DA= 3.4
   cm and angle A = 70$^0$

10. verify Euler formula for the given figure

11. The rainfall recorded on certain day was 5 cm. Find the volume of water that fell on a 5
   hectare fields.

12. The length of a rectangle is 8 cm and each of its diagonals measures 12cm . Find its breadth.

13. A die is thrown in random . Find the probability of getting a) a composite number b ) a number
    less than 3
14. Draw a rhombus whose side is 6.2 cm and one angle is 85°.

15. Find the area of a trapezium whose parallel sides are 24 cm and 22 cm and the distance between them is 15 cm.

16. The daily wages of 20 stores in a market was recorded under: 715,650,660,685,550,530,610,742,680,736,524,500,585,723,545,532,560,545,625,635 prepare a frequency table class sizes. One such that class is 500-550 where 550 is not included.

17. The marks of a student in different subjects are given below:

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>HINDI</th>
<th>ENGLISH</th>
<th>MATHS</th>
<th>SCIENCE</th>
<th>SOCIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARKS</td>
<td>45</td>
<td>56</td>
<td>80</td>
<td>65</td>
<td>50</td>
</tr>
</tbody>
</table>

18. The following table gives the number of different fruits kept in a hamper:

<table>
<thead>
<tr>
<th>Type of fruit</th>
<th>Mangoes</th>
<th>Apples</th>
<th>Oranges</th>
<th>Coconuts</th>
<th>Pomegranates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>36</td>
<td>30</td>
<td>40</td>
<td>5</td>
<td>20</td>
</tr>
</tbody>
</table>

19. Draw a graph of function \( A = x^2 \)