

Class : VII
Mid Term Exam 2022-2023
Subject: MATHEMATICS

Set A1

Time : 3 Hours

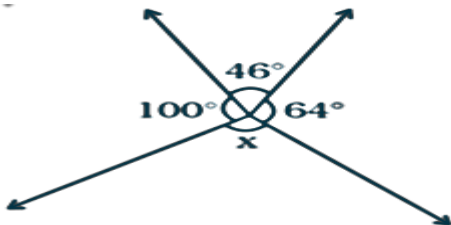
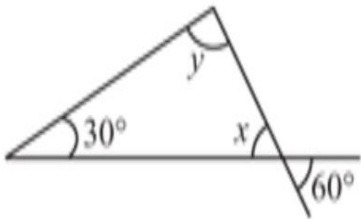
Max Marks : 80

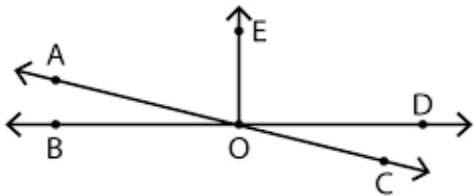
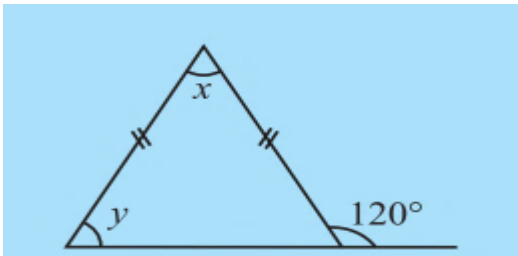
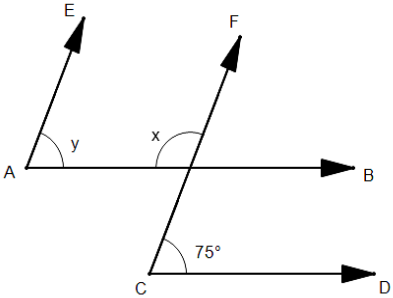
Note :

- (1) This question paper contains 6 printed pages.
- (2) Section A contains 15 questions of 1 mark each.
- (3) Section B contains 7 questions of 2 marks each.
- (4) Section C contains 7 questions of 3 marks each.
- (5) Section D contains 6 questions of 5 marks each.

Ques	<u>SECTION A</u>	Marks
1	3 taken away from 0 gives (a) 3 (b) -3 (c) 0 (d) not possible	1
2	Place value of digit 3 in 9.083 is (a) 3 (b) 1 (c) $\frac{3}{10}$ (d) $\frac{3}{1000}$	1
3	Statement: ‘7 is multiplied by y and product subtracted from 5 gives 19’ Equation for the above statement is (a) $5 \times 7y = 19$ (b) $5 - 7y = 19$ (c) $7y - 5 = 19$ (d) $5y - 7 = 19$	1
4	The triangle in which two altitudes are two of its sides is called (a) Obtuse angled triangle (b) Right angled triangle (c) Acute angled triangle (d) Isosceles triangle	1
5	‘Getting a number less than 1 on throwing a die.’ Above event can be classified as: (a) certain to happen (b) impossible to happen (c) may or may not happen (d) probability	1

SECTION B

	<u>SECTION B</u>	
16	Find the product using suitable property. $(-125) \times 19 + 119 \times 125$	2
17	A rectangular sheet of paper is $9\frac{1}{3}$ cm long and $5\frac{1}{6}$ cm wide . Find its area .	2
18	Find median of the following data: $1, 16, 11, 6, 11, 8, 17$	2
19	Solve the following equation : $-3(2x - 1) = 15$	2
20	Find the value of x : 	2
21	From the following figure , find x and y . 	2
22	Is there a triangle whose sides have lengths 10 cm, 5 cm and 4 cm? Give reasons.	2
	<u>SECTION C</u>	
23	Evaluate : $[(-15) + (-70)] \div [(20) + (-3)]$	3
24	Mrs. Asha baked a chocolate cake. She gave $\frac{1}{2}$ of it to her neighbour and ate $\frac{1}{4}$ of it. What fraction of the cake is left with her?	3

25	<p>Age (in years) of 15 persons are given below :</p> <p>65 65 63 60 63 60 64 63 60 64 60 63 60 65 63</p> <p>Prepare a frequency distribution table based on above data.</p>	3
26	Laxmi's father is 58 years old. He is 4 years older than three times Laxmi's age. What is Laxmi's age?	3
27	<p>From the given figure, identify:</p> <p>(i) one pair of adjacent angles</p> <p>(ii) a linear pair</p> <p>(iii) a pair of vertically opposite angles</p> 	3
28	<p>From the given fig. find x, y.</p> 	3
29	One of the angles of a triangle is 80° and the other two angles are equal. Find the measure of each of the equal angles.	3
<u>SECTION D</u>		
30	<p>In a test (+5) marks are given for every correct answer and (–2) marks are given for every incorrect answer.</p> <p>(i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers. How many incorrect answers she had attempted?</p> <p>(ii) Mohan got four correct and six incorrect answers. What is his score?</p>	5
31	<p>In the figure given below, $AE \parallel CF$ and $AB \parallel CD$. Find x and y.</p> 	5

32	<p>Marks obtained in various subjects by Ravi of class 7th in 1st and 2nd term exam(out of 100) are given below:</p> <table><tr><th>Term</th><th>English</th><th>S.St.</th><th>Science</th><th>Hindi</th><th>Maths</th></tr><tr><td>1st term</td><td>60</td><td>80</td><td>90</td><td>65</td><td>80</td></tr><tr><td>2nd term</td><td>75</td><td>75</td><td>80</td><td>75</td><td>90</td></tr></table> <p>Draw a double bar graph for the given data.</p>	Term	English	S.St.	Science	Hindi	Maths	1 st term	60	80	90	65	80	2 nd term	75	75	80	75	90	5
Term	English	S.St.	Science	Hindi	Maths															
1 st term	60	80	90	65	80															
2 nd term	75	75	80	75	90															
33	<p>In a hurdle race, Tina is over hurdle B and $\frac{2}{6}$ of the way through the race, as shown in the given figure .</p> <div></div> <p>Then, answer the following:</p> <p>i) Where will Tina be,when she is $\frac{4}{6}$ of the way through the race? a) hurdle A b) hurdle C c) hurdle D d) hurdle E</p> <p>ii) If total distance to be covered in race is 300 m, then distance covered by Tina over hurdle E is a) 100 m b) 200 m c) 50 m d) 250 m</p> <p>iii) Fraction $\frac{2}{6}$ is a a) mixed fraction b) proper fration c) improper fration d) like fraction</p> <p>iv) An equivalent fraction of $\frac{2}{6}$ with denominator 30 is a) $\frac{30}{60}$ b) $\frac{1}{3}$ c) $\frac{20}{60}$ d) $\frac{10}{30}$</p> <p>v) Lowest form of $\frac{2}{6}$ is a) $\frac{1}{6}$ b) $\frac{5}{6}$ c) $\frac{1}{3}$ d) $\frac{6}{2}$</p>	5																		

34	<p>(A) State the property that is used in each of the following statements?</p> <p>(i) If $a \parallel b$, then $\angle 1 = \angle 5$.</p> <p>(ii) If $\angle 4 = \angle 6$, then $a \parallel b$.</p> <p>(iii) If $\angle 4 + \angle 5 = 180^\circ$, then $a \parallel b$</p> <p>(B) If $\angle 2 = 80^\circ$, then find value of $\angle 5$.</p> <div data-bbox="535 546 958 945" data-label="Diagram"> </div>	5
35	<p>A 15 m long ladder reached a window 12 m high from the ground on placing it against a wall at a distance a. Find the distance of the foot of the ladder from the wall.</p>	5