| 0 INDIAN SCHOOL AL WADI AL KABIR |
| :---: | :---: | :---: |

## Post Mid-Term Revision Paper (2023-24)

## Class: VII

Sub: MATHEMATICS

## Instructions:

Section A: Multiple Choice Questions (Q. 1 to Q.6)
Section B: Source based questions (Q. 7 to Q.11)
Section C: Long Answer Questions (Q. 12 to Q.15)
Section D: Case study Questions (Q. 16 to Q.17).
Section A: Multiple Choice Question (Q. 1 to Q.6) of $\mathbf{1}$ mark each

1. In a triangle, if two interior angles are $63^{\circ}$ and $85^{\circ}$, then the measure of exterior angle opposite to it is:

| A | $148^{\circ}$ | $\mathbf{B}$ | $22^{\circ}$ | $\mathbf{C}$ | $95^{\circ}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

2. What will the value of ' $\mathbf{x}$ ' if the given rational numbers are equal?
$\frac{36}{x}=\frac{-6}{7}$

|  | A | 42 | B | 49 | C | -42 | D | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3. |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | A | $\frac{22}{7}$ | B | $\frac{8}{7}$ | C | $\frac{-8}{7}$ | D | $\frac{-22}{7}$ |

4. Find the value of y in the given figure.


| $\mathbf{A}$ | $50^{\circ}$ | $\mathbf{B}$ | $85^{\circ}$ | $\mathbf{C}$ | $100^{\circ}$ | $\mathbf{D}$ | $65^{\circ}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

5. The sum of an exterior angle of a triangle and its adjacent angle is always equal to:
A
$90^{\circ}$
B $\quad 180^{\circ}$

| $\mathbf{C}$ | $360^{\circ}$ |
| :--- | :--- |

D $270^{\circ}$

| 6. | Find the additive inverse of $\frac{8}{-13}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | $\frac{-8}{13}$ | B | $\frac{13}{8}$ | C | $\frac{8}{13}$ | D | $\frac{-13}{8}$ |
|  | Section B: Source based questions (Q. 7 to Q .11 ) of $\mathbf{1}$ mark each In an equilateral triangle $A B C$, the length of $A C=10 \mathrm{~cm}$ and altitude $A D=6 \mathrm{~cm} . P$ is a point on $A B$. |  |  |  |  |  |  |  |
| 7. | If the length of $B P=x-1$ and the length of $P A=x+3$, find the length of $B P$ ? |  |  |  |  |  |  |  |
|  | A | 1 cm | B | 4 cm | C | 6 cm | D | 3 cm |
| 8. | What is the length of the median on $B C$ from vertex $A$ ? |  |  |  |  |  |  |  |
|  | A | 4 cm | B | 6 cm | C | 10 cm | D | 12 cm |
| 9. | In the right-angled triangle ADC, which of the following will be true? |  |  |  |  |  |  |  |
|  | A | $A C^{2}=A D^{2}-C D^{2}$ | B | $A D^{2}=A C^{2}-C D^{2}$ | C | $C D^{2}=A C^{2}+A D^{2}$ | D | $A D^{2}=A C^{2}+C D^{2}$ |
| 10 | The lengths of two sides of a triangle are 7 cm and 9 cm . Between which two numbers can the length of the third side fall? |  |  |  |  |  |  |  |
|  | A | 5,10 | B | 2,17 | C | 5,16 | D | 2,16 |
| 11. | Which of the following will be the angles of a triangle? |  |  |  |  |  |  |  |
|  | A | $30^{\circ}, 55^{\circ}, 90^{\circ}$ | B | $35^{\circ}, 45^{\circ}, 90^{\circ}$ | C | $26^{\circ}, 58^{\circ}, 96^{\circ}$ | D | $55^{\circ}, 60^{\circ}, 25^{\circ}$ |
| Section C: Long Answer Questions (Q12 to Q.15) |  |  |  |  |  |  |  |  |
| 12. | Find the product of $\frac{-28}{81}$ and $\frac{27}{-14}$. (2 Marks) |  |  |  |  |  |  |  |



## ANSWERS

| 1. | A. $148{ }^{\circ}$ | 2. | C. -42 | 3. | B. $\frac{8}{7}$ | 4. | D. $65^{\circ}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5. | B. $180^{\circ}$ | 6. | C. $\frac{8}{13}$ | 7. | D. 3 cm | 8. | B. 6 cm |
| 9. | $\begin{gathered} \text { B. } A D^{2}= \\ {A C^{2}-C D^{2}}^{2} \end{gathered}$ | 10. | D. 2, 16 | 11. | C. $26^{\circ}, 58^{\circ}$, | 12. | $\frac{2}{3}$ |
| 13. | $\begin{gathered} \mathrm{NO}=\mathrm{YZ} \\ \angle \mathrm{NOM}= \\ \angle \mathrm{YZX} \\ \mathrm{OM}=\mathrm{ZX} \\ \Delta N O M \cong \\ \Delta Y Z X \end{gathered}$ | 15. | $\begin{gathered} \frac{281}{350}, \\ \frac{282}{350}, \frac{283}{350}, \frac{284}{350} \end{gathered}$ | 16. | a) RHS <br> b) $41^{\circ}$ <br> c) 5 cm <br> d) $\angle D E F$ | 17. | I) 17 m <br> II)32m <br> III) $c^{2}=a^{2}+b^{2}$ |

