## CHAPTER - 4

## PRACTICAL GEOMETRY

## Questions carrying 1 Mark each :-

Q. 1 Can you construct a parallelogram if the lengths of adjacent sides are known?
Q. 2 How many minimum measurements are required to construct a quadilateral uniquely?

## Questions carrying 2 marks each :-

Q. 3 Can you construct the quadrilateral ABCD if $\mathrm{AB}=5 \mathrm{~cm}, \mathrm{BC}=8.5 \mathrm{~cm},+A=75^{\circ}$, $+B=150^{\circ}$ and $+C=140^{\circ}$. Justify your answer.
Q. 4 Construct a rhowbus with side 4.5 cm and diagonal 8 cm .

## Questions carrying 3 marks each :-

Q.5 Construct a quadrilateral $A B C D$ in which $A B=4.5 \mathrm{~cm}, B C=6.4 \mathrm{~cm}, C D=4.8 \mathrm{~cm}$, $D A=5.6 \mathrm{~cm}$ and $A C=7.6 \mathrm{~cm}$
Q.6 Construct a quadrilateral BEST in which $\mathrm{ES}=4.5 \mathrm{~cm}, \mathrm{SB}=\mathrm{BT}=6.5 \mathrm{~cm}, \mathrm{ST}=6 \mathrm{~cm}$ and $E T=7.2 \mathrm{~cm}$.
Q. 7 Construct a quadrilateral PQRS in which $\mathrm{PQ}=5.6 \mathrm{~cm}, \mathrm{QR}=5.9 \mathrm{~cm},+Q=90^{\circ}$, $+S=105^{\circ}$ and $+R=120^{\circ}$.
Q. 8 Construct a quadrilateral $A B C D$ in which $A B=4 \mathrm{~cm}, B C=5 \mathrm{~cm}, C D=6 \mathrm{~cm}$,
$+B=120^{\circ}$ and $+C=90^{\circ}$

## Questions carrying 6 Marks each:-

Q. 9 Construct a trapezium $A B C D$ in which $A B \| C D, A B=8 \mathrm{~cm}, B C=6 \mathrm{~cm}$, $\mathrm{CD}=4 \mathrm{~cm}$ and $+B=60^{\circ}$
Q. 10 Construct a rhombus whose diagonals are of length 8 cm . and 10 cm .
Q. 11 Construct a rectangle with adjacent sides of lengths 6 cm . and 4 cm .

## Multiple choice Questions carrying 1 mark each:-

Q. 12 To construct a quadrilateral uniquely, it is necessary to know at least $\qquad$ of its parts.
(a) two
(b) three
(c) four
(d) five
Q. 13 A rhombus can not be drawn if
(a) one side and one diagonal are given.
(b) the lenths of the two diagonals are given.
(c) the length of one diagonal is given.
(d) None of these.

