Front side

30 283 20 460 230 20

MARGIN LINE

SHEET EDGE

MARGIN LINE

Q.1. THE DISTANCE BETWEEN TWO FIXED POINTS IS 75 MM. A POINT MOVES IN THE SAME PLANE SUCH THAT SUM OF ITS DISTANCES FROM THE FIXED POINTS IS ALWAYS 125 MM. DRAW THE UPPER HALF OF CURVE USING ARCS OF CIRCLE METHOD & LOWER HALF USING CONCENTRIC CIRCLE AND RECTANGULAR METHOD FOR EACH QUARTER.

Q.2. A STONE IS THROWN FROM A GROUND. IT JUST CROSSES THE TOP OF A PALM TREE 12 METRE HIGH & LANDS ON THE ROOF OF A 6 METRE HIGH BUILDING. IF THE HORIZONTAL DISTANCE BETWEEN THE BUILDING & THE PALM TREE IS 3 METRES, DRAW THE PATH OF PROJECTILE. ALSO FIND THE DISTANCE OF THE BUILDING FROM WHERE THE STONE IS THROWN.

NOTES

1.ALL DIMENSIONS IN MM
2.ALL LETTERS IN TILTLE BLOCK ARE OF 6 MM HEIGHT

Q.3. 20 CUBIC METRES OF AIR AT 5 BARS EXPANDS UNTIL ITS VOLUME BECOMES 200 CUBIC METRES. IF PV = 150, CONSTRUCT THE EXPANSION CURVE, ALSO DRAW THE NORMAL & TANGENT TO THE CURVE AT POINT WHERE VOLUME IS 120 CUBIC METRES.

Q.4. A WHEEL OF 50 MM DIAMETER ROLLS WITHOUT SLIPPING ON TWO MUTUALLY PERPENDICULAR LINES. FOR THE FIRST HALF REVOLUTION OF THE WHEEL IT ROLLS ON A VERTICAL LINE & FOR THE SECOND HALF IT ROLLS ON A HORIZONTAL LINE. DRAW THE LOCUS OF A POINT ON THE CIRCUMFERENCE OF THE WHEEL INITAILLY TOUCHING THE VERTICAL LINE.

150 50 50

| | | |
|---|---|---|
| NAME | ENGINEERING CURVES | |
| ROLL NO. | | |
| BR.&SEC. | IET DAVV | |
| UNIT | | |
| SCALE | | |
| DATE | SHEETNO. | |

10 10 10 10 10 10

2 20 ø24 ø16

20

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