

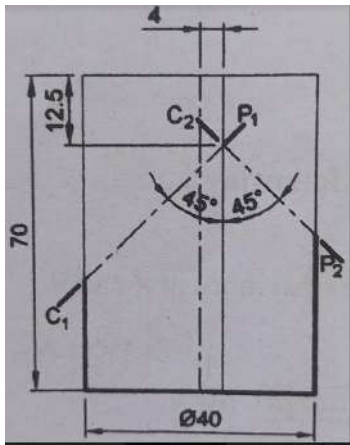


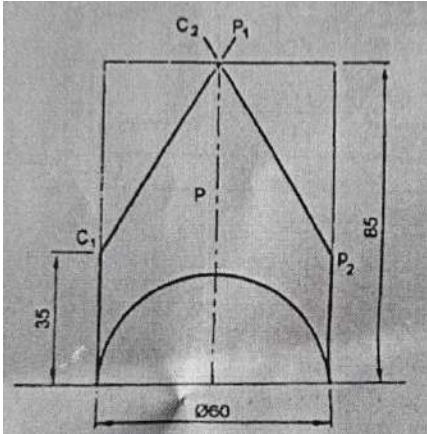
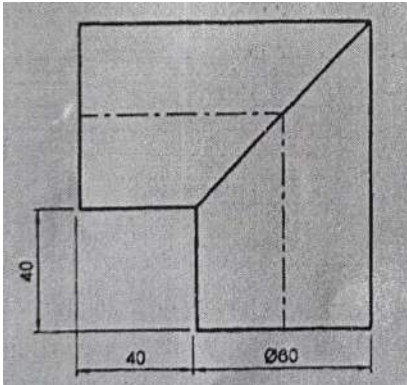
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312311 - Engineering Drawing (Sem II)

As per MSBTE's K Scheme

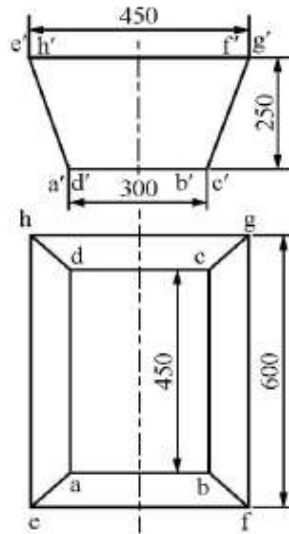
ME / AE / MK / PG

Unit V		Development of Surfaces	Marks - 16	
S. N.	MSBTE Board Asked Questions	Exam Year	Marks	
1.	<p>A hexagonal pyramid side of base 30 mm and axis 80 mm long is kept on H.P. on its base with a side of base parallel to V.P. It is cut by an AIP passing through a point 30 mm from apex on axis of pyramid and inclined to H.P. at 40°. Draw the development of lateral surface of pyramid removing portion containing apex.</p>	W-23	6	
2.	<p>Fig. shows the elevation of a cylinder kept on H.P. on its base. Cylinder is cut by two cutting planes C_1-P_1 and C_2-P_2. Draw the development of lateral surface of cylinder.</p> 	W-23	6	

<p>3.</p>	<p>A cone base diameter 50 mm and height 65 mm is kept on H.P. on its base a semicircular hole of diameter 25 mm, the axis of which is parallel to both H.P. and V.P. is drilled through it. The flat face of semicircular hole is parallel to H.P. and edge bisecting the axis of cone. Draw the development of lateral surface of cone.</p>	<p>W-23</p>	<p>6</p>
<p>4.</p>	<p>Right circular cone having diameter of base 40 mm, axis length 60 mm resting on its base on HP is cut by an AIP at 45° to HP and bisecting the axis. Draw the DLS of the cone.</p>	<p>S-23</p>	<p>6</p>
<p>5.</p>	<p>Draw the development of part 'P' of a truncated right circular cylinder shown in following figure.</p> 	<p>S-23</p>	<p>6</p>
<p>6.</p>	<p>Draw the development of lateral surface of the elbow joint of two pipes shown in following figure.</p> 	<p>S-23</p>	<p>6</p>

7.

Fig. shows the front view and top view of a tray. Draw the development of it.

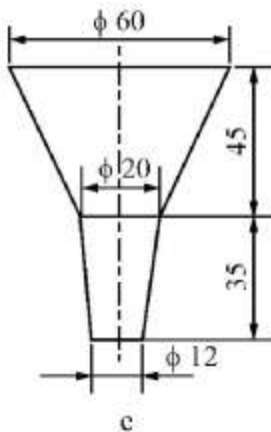


W-22

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8.

Fig. shows the front view of Funnel. Draw the developments of the lateral surface of each.

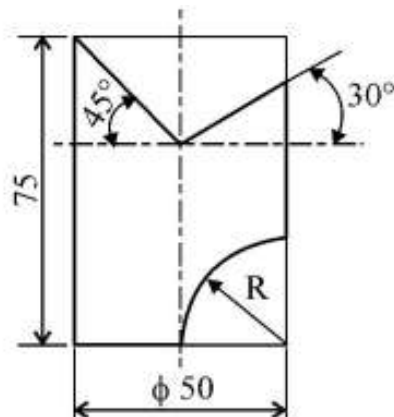


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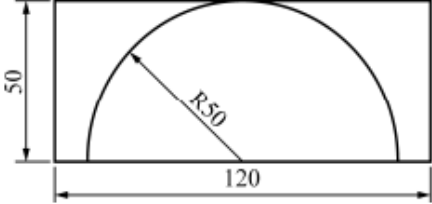
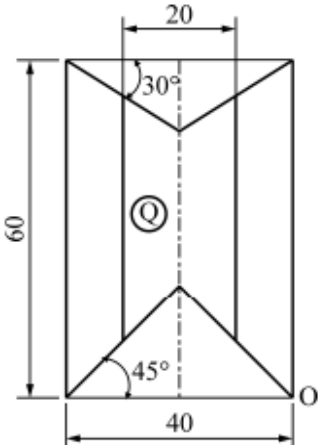
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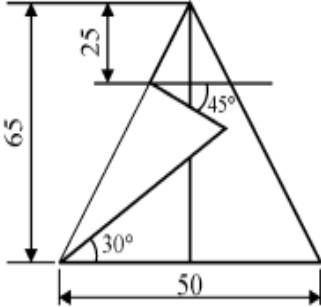
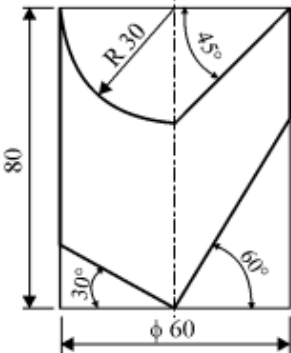
Draw the development of the lateral surface of the cylinder having a diameter of 50 mm.

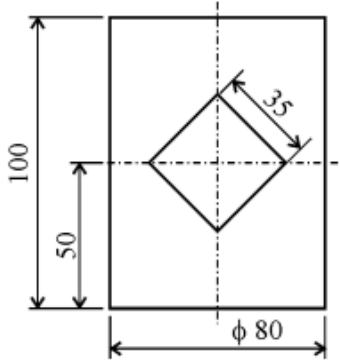
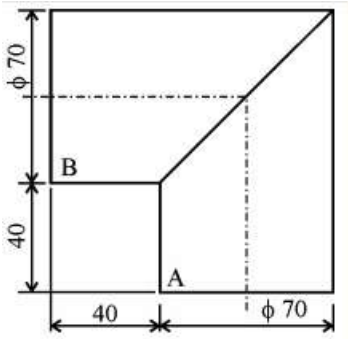


W-22

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<p>10.</p>	<p>Figure shows development of lateral surface of a hexagonal prism with a semi-circle inscribe on it. Assume the prism to be kept on HP. Vertically with a side of base perpendicular to V.P. Show the effect of semi-circle in elevation and plan.</p> 	<p>S-22</p>	<p>6</p>
<p>11.</p>	<p>Draw a development of part Q of hexagonal prism from following Figure</p> 	<p>S-22</p>	<p>6</p>
<p>12.</p>	<p>Draw development of surface of cylinder having base diameter 50 mm and axis height 80 mm kept of HP. It is cut by a cutting plane which is inclined at 45° with HP and bisecting axis of cylinder.</p>	<p>W-19</p>	<p>6</p>
<p>13.</p>	<p>A square prism of base side 40 mm and axis height 90 mm is rest on HP such that its side of base equally inclined with VP. A circular hole of diameter 85 mm is drilled through prism such that axis of hole is perpendicular to VP and parallel to HP and bisect axis of square prism. Draw development of surface of prism.</p>	<p>W-19</p>	<p>6</p>

<p>14.</p>	<p>Figure shows FV of a square pyramid. Draw its development of lateral surfaces of a pyramid also add top view.</p> 	<p>W-19 S-22</p>	<p>6</p>
<p>15.</p>	<p>A cone with base diameter 60 mm and axis length 70 mm rests on its base on H.P. A circular hole of 30 mm diameter is drilled through the cone such that its axis is perpendicular to V.P., parallel to H.P. and 20 mm above the base of cone. Draw the development of the surface showing the effect of the hole if axis of hole is 10 mm to the right of axis of the cone.</p>	<p>S-19</p>	<p>6</p>
<p>16.</p>	<p>A cylinder of base diameter 50 mm and height 75 mm is kept on H.P. A square hole of side 30 mm is drilled through it, the axis of which is perpendicular to V.P., parallel the H.P. and 10 mm to the right of the axis of the cylinder. Axis of the hole is at centre height and all the faces of the hole are equally inclined to H.P. Draw the development of lateral surface of the cylinder in such a way that square hole appears centrally in the development.</p>	<p>S-19</p>	<p>6</p>
<p>17.</p>	<p>Draw the development of the lateral surface of the cylinder shown in Fig.</p> 	<p>S-19</p>	<p>6</p>

<p>18.</p>	<p>Draw the development of the lateral surface of the cylinder having a square hole in it as shown in the Fig</p> 	<p>W-18</p>	<p>6</p>
<p>19.</p>	<p>Draw the development of lateral surface of Part 'A' and Part 'B' of a right angle elbow shown in Fig.</p> 	<p>W-18</p>	<p>6</p>
<p>20.</p>	<p>A right circular cone diameter of base 60 mm and axis 60 mm long is resting on its base on H.P. It is cut by a section plane perpendicular to V.P. and inclined at 45° to H.P. and bisecting the axis of cone. Draw the front view, top view and development of lateral surface of the cone.</p>	<p>W-18</p>	<p>6</p>

Thank You

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