

TCET DEPARTMENT OF ENGINEERING SCIENCES AND HUMANITIES Choice Based Credit Grading Scheme with Holistic and Multidisciplinary Education Under Autonomy - CBCGS-HME 2023 University of Mumbai



Name of Subject :-	Engineering Graphics and Design (EGD)	DEPT :-		ES&H				
Year(SE/TE/BE):-	FE/FT	Subject Code:-	HSMC1201					
ACADEMIC YEAR :-	2024-25 (January - May 2025)	SEMESTER:-	II	Scheme:-	CBCGS-HME2023			
Faculty Incharge:-	Mr. Ashwin Pathak /Mr.Shivram Poojari /Ms. Yogita Honrao/ Ms. Soma Karmokar/ Mr. Suraj Singh/ Mr. Rajeshwar Deshmukh/ Mr. Ank	rush Biradar						

Faculty Incharge:-	Mr. Ashwin Pathak /Mr.Shivram Poojari /Ms. Yogita Honrao/ Ms. Soma Karmokar/ Mr. Suraj Singh/ Mr. Rajeshwar Deshmukh/ Mr. Ank	ush Biradar				
Sr No.	Questions	CO	RBT	Marks	Type	Pi
1	Enlist any four apparatus in engineering graphics	CO 1	R	2	T	1.3.1
2	Enlist the types of pencil lead used in engineering drawing	CO 1	R	2	T	1.3.1
3	Define a Cycloid.	CO 1	R	2	T	1.3.1
<u>4</u> 5	What is the value of eccentricity of parabola What is the value of eccentricity of hyperbola	CO 1	R R	2 2	T T	1.3.1
6	What is the value of eccentricity of ellipse	CO 1	U	2	T	1.3.1
7	Draw a horizontal line of 80 mm and divide it into 12 equal parts	CO 1	U	2	T	1.3.1
8	Define a Involute.	CO 2	U	3	T	1.3.2
9	Draw a horizontal line of 100 mm and divide it into 8 equal parts	CO 3	U	4	T	1.3.3
11	Draw a circle of 30 mm radius and devide it into 12 number of equal parts State any four types of lines used in engineering drawing	CO 4	U R	5 2	T T	1.3.4
12	Draw a hyperbola whose distance of focus from directrix is 50 mm. The eccentricity is 3/2.	CO 1	R	5	N	1.3.1
13	The distance of focus for a conic curve from directrix is 50 mm. Draw the locus of a point P so that the distance moving point from directrix and focus is unity.	CO 1	R	5	N	1.3.1
14 15	Draw involute of square having each side of length 25 mm Draw involute of triangle having each side of length 30 mm	CO 1	U U	5	N N	3.3.1 1.3.1
16	Locate focus, vertex-1 and vertex-2 of an ellipse with focus directrix distance 25 mm and eccentricity 2/3.	CO 1	U	6	N	3.3.2
17	Draw involute of a equilateral triangle of side 25mm. Also draw tangent and normal at any point on the curve.	CO 1	U	7	N	2.3.3
18 19	Draw involute of a pentagon of side 25mm. Construct a cycloid of a roller having 50mm diameter.	CO 1	U U	8	N N	2.3.3 1.3.4
20	Draw a cycloid for a point at top on a circle of diameter 30mm for half rotation on horizontal floor.	CO I	R	5	N	3.2.1
21	Enlist and draw different types of lines used in engineering drawing.	CO 1	R	5	T	3.2.1
22	Draw a cycloid for a point at bottom on a circle of diameter 30mm for half rotation on horizontal floor An elastic string of 150 length is wound around hexagon of 25 mm side. Trace the path of free end of a string keeping the string	CO 1	U	5	N	3.2.1
23	tight.Draw normal and tangent	CO 1	R	10	N	3.2.1
24	Construct a cycloid having a rolling circle of 50 mm diameter. Also draw a tangent and normal at any point P on the curve.	CO 1	R	10	N	3.2.1
25	The focus of a conic is 30 mm from directrix. Draw the locus of a point P moving in such a way that eccentricity is 2/3. Also draw a tangent and normal at any point on the curve.	CO 1	R	10	N	3.2.1
26	Enlist the steps to draw a cycloid	CO 1	R	10	T	3.2.1
27	Draw hyperbola whose distance of focus is 50 mm and e = 1.5. Draw the tangent and normal at any point on the curve	CO 1	R	10	T	3.2.1
28	A circular wheel of diameter 40 mm rolls over a straight surface without slipping. Draw the curve traced by a point P for one revolution of the wheel. Assume that the initial position of the point P is at the top of the vertical centre line of the wheel. Name the curve and also draw tangent and normal at any point on the curve	CO 1	U	10	T	3.2.1
20	One end of a thread is fixed to one corner of regular hexagonal disc having a side of 25mm. Draw the curve traced out by the other end of					
29	the thread when the thread is wound round the disc, the thread being kept tight. Name the curve and also draw normal and tangent at any point on the curve.	CO 1	R	10	T	3.2.1
30	The focus of a conic is 50 mm from directrix. Draw the locus of a point P moving in such a way that eccentricity is 3/2. Also draw a tangent and normal at any point on the curve.	CO 1	U	10	N	3.2.1
31	The focus of a conic is 50 mm from directrix. Draw the locus of a point P moving in such a way that eccentricity is 2/3. Also draw a tangent and normal at any point on the curve.	CO 1	U	10	N	3.2.1
32	The focus of a conic is 50 mm from directrix. Draw the locus of a point P moving in such a way that eccentricity is 1. Also draw a tangent and normal at any point on the curve.	CO 1	A	10	N	3.2.1
33	Construct a cycloid having a rolling circle of 40 mm diameter on an inclined plane at 30degree. Also draw a tangent and normal at any point P on the curve.	CO 1	U	10	N	3.2.1
34	Draw the projection of points 'W' on V.P. and 20 mm below H.P.	CO 2	R	2	N	1.1.1
35	Draw the projection of points 'X' on H.P. as well as V.P. both.	CO 2	R	2	N	1.1.1
36	Draw the projection of points 'A' in third Quadrant relation with H.P and V.P 15mm and 20mm respectively	CO 2	R	2	N	1.1.1
37 38	A point M is on both HP and VP. Draw its projection. Draw the projection of point M which is 50 mm below the HP and on VP.	CO 2	R R	2 2	N N	1.1.1 1.1.1
39	Draw the projection of line AB of length 60mm, which is parallel to both HP and VP. Consider point A 15 mm above HP and 20mm infront of VP	CO 2	R	2	N	1.1.1
40	Draw the line of 30 mm parallel to both HP and VP	CO 2	R	2	N	1.1.1
41	Draw the line of 60 mm inclined to HP at 60deg, and parallel to VP	CO 2	U	2	N	1.2.1
42	What do you mean by 'plan length'?	CO 2	R	2	N	1.1.1
43	What do you mean by 'front view'?	CO 2	U	2	N	2.1.1
44	A point 'A' is 25 mm below H.P. and 15 mm behind V.P. Draw its projections.	CO 2	R	2	N	1.1.1
45	Draw the line of 60mm parallel to both HP and VP	CO 2	R	2	N	1.1.1
46	Draw the line of 30mm inclined to HP at 45 deg. and parallel to VP	CO 2	R	2	N	1.1.1
47	What do you mean by 'plan length'?	CO 2	R	2	T	1.1.1
48	What do you mean by 'front view'?	CO 2	U	2	T	1.1.1
49	A point 'D' is 45 mm below H.P. and 55 mm behind V.P. Draw its projections.	CO 2	R	2	N	1.1.1
50	Draw the projection of triangular plate of side 30mm Parallel to the VP and perpendicular to HP.	CO 2	A	5	N	2.3.1
51	Draw the projection of a hexagon plate of side 30mm Parallel to the VP and perpendicular to HP.	CO 2	A	5	N	2.3.1
52	A line CD 60mm long has its end 'C' in both H.P and V.P. It is inclined at 30 0 to H.P and 45 0 to V.P. Draw the projections.	CO 2	A	5	N	2.3.1
53	A line AB 85 mm long, is parallel HP and inclined to VP at an angle 55°, Consider the whole line to be in the First Quadrant. If the End A is on HP and 20 mm in front of the VP draw its projections and find the Elevation Length.	CO 2	A	5	N	2.3.1
54	Draw the projection of line AB 75 mm long, which is parallel to HP and Perpendicular to VP. Consider the End A 20 mm about the projection of line AB 75 mm long, which is parallel to HP and Perpendicular to VP. Consider the End A 20 mm about the projection of line AB 75 mm long, which is parallel to HP and Perpendicular to VP. Consider the End A 20 mm about the projection of line AB 75 mm long, which is parallel to HP and Perpendicular to VP.	CO 2	A	5	N	2.3.1
55	Draw the projection of line AB 90 mm long, which is parallel to VP and perpendicular to HP. Consider the End A 10 mm above the HP and 15 mm in front of the VP	CO 2	A	5	N	2.3.1
56	A line AB 70 mm long, is parallel HP and inclined 300 to VP. Consider the whole line to be in the First Quadrant. If the End A is on HP and 20 mm in front of the VP draw its projections and find the Elevation Length.	CO 2	A	5	N	2.3.1
57	A 50mm long line AB is parallel to both H.P and V.P. The line is 25mm in front of V.P and 60mm above H.P, draw the projections of the line	CO 2	A	5	N	2.3.1

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58	Draw the projection of line AB 60 mm long, which is parallel to VP and perpendicular to HP. Consider the End A 20 mm above the HP and 15 mm in front of the VP	CO 2	A	5	N	2.3.2
59	A line AB, 65 mm long has its end point A 20 mm above the HP and 10 mm in front of the VP. Elevation length and Plan length of the line is same and is of length 50 mm. Draw the projections of line AB, assuming the complete line to be in the First Quadrant. Also find its inclinations with HP and VP.	CO 2	A	5	N	2.3.2
60	A line AB, 80 mm long is inclined at an angle of 35° to the HP and 45° to VP. Its end point A is 10 mm above HP and 20 mm in front of VP. Draw the Projection of Line AB. Assume complete line in the 1 st quadrant. Also find its plan length and elevation length.	CO 2	A	5	N	2.3.2
61	Distance between the end projectors of line AB are 50 mm apart. The end A is 20 mm above the H.P. and 20 mm infront the V.P. The end B is 10 mm above the H.P. and 40 mm infront of the V.P. Draw projections of line AB, Determine the true length of the line and its inclinations with H.P. and V.P.	CO 2	A	5	N	2.3.2
62	Draw the projections of a line AB 60mm long having point A 10 mm above HP and 25mm in front of VP when it is parallel to HP and inclined at 30° to VP.	CO 2	A	5	N	2.3.2
63	The front view of line inclined at 30deg. to V.P is 65mm long. Draw the projections of a line, when it is parallel to and 40mm above H.P. and one end being 20mm in front of V.P.	CO 2	A	5	N	2.3.2
64	Explain the four quadrants used in the projection of points with neat sketches.	CO 2	U	5	Т	2.3.2
65	The distance between the end projectors of a line AB is 60 mm. The end A is 25 mm above H.P. and 45 mm in front of V.P., while the other end B is 60 mm above H.P. and 15 mm in front of V.P. Draw projections and find the true length and also inclination of the line with H.P. and V.P	CO 2	A	10	N	2.1.2 2.3.2
66	Top view and Front view of the line MN, 70 mm long measures 55 mm and 60 mm respectively. Draw the projection of line MN if end M is 15 mm above the HP and 20 mm in front of the VP. Determine inclination of line MN with HP and VP.	CO 2	A	10	N	2.1.2 2.3.2
67	A line AB 70 mm long has its end A 10 mm above H.P. and 20 mm in front of V.P. The line AB is inclined at 40° to H.P. and its front view is inclined at 65° to XY. Draw its projections and find inclination of AB with VP.	CO 2	A	10	N	2.1.2 2.3.2
68	A line AB 80 mm long, is parallel VP and inclined to HP at an angle 350 . Consider the whole line to be in the First Quadrant. If the End A 25 mm above the HP and 10 mm in front of the VP. Also find the Plan Length.	CO 2	A	10	N	2.1.2 2.3.2
69	Draw the projection of line AB 60 mm long, which is parallel to VP and perpendicular to HP. Consider the End A 20 mm above the HP and 15 mm in front of the VP	CO 2	A	10	N	2.1.2 2.3.2
70	A line AB 80 mm long has its end A 20 mm above HP and 30 mm infront of VP. It is inclined at 30 deg. to HP and 45 deg. to VP. Draw the projections of the line and find apparent lengths and apparent inclinations	CO 2	A	10	N	2.1.2 2.3.2
71	Draw the projections of a line AB 100 mm long inclined at 45 deg. to VP and 30 deg. to HP. One end of the line is 20 mm above HP and in VP. Determine apparent lengths and inclinations.	CO 2	Е	10	N	2.1.2 2.3.2
72	A line AB 100 mm long is inclined to HP at 45 deg. and inclined to VP at 30 deg. Draw front and top views of line and determine their lengths. Also determine the perpendicular distance of end B from both HP and VP	CO 2	Е	10	N	2.3.2
73	A line AB measuring 70 mm has its end A 15 mm infront of VP and 20 mm above HP and the other end B 60 mm infront of VP and 50 mm above HP. Draw the projections of the line and find the inclinations of the line with the both	CO 2	Е	10	N	2.3.2
74	the reference planes of projection A line AB 65 mm long, has its end A 20 mm above HP and 25 mm infront of VP. The end B is 40 mm above HP and 65	CO 2	Е	10	N	2.3.2
75	mm infront of VP. Draw the projections of AB and show its inclination with HP and VP. A line AB has its end A 20 mm above HP and 30 mm infront of VP. The other end B is 60 mm above HP and 45 mm infront of VP. The distance between end projectors is 70 mm. Draw its projections. Determine the true length and apparent inclinations	CO 2	A	10	N	2.1.2213.2
76	The end A of a line AB is on HP and 25 mm infront of VP. The end B is on VP and 50 mm above HP. The distance between the end projectors when measured parallel to the line of intersection of HP and VP is 65 mm. Draw the projections of the line AB and determine its true length and true inclinations with HP and VP	CO 2	Е	10	N	2.1.22:3.2
77	State the position of FV, TV and LHSV in 1st angle projection	CO3	R	2	T	1.3.1
78 79	What is 1st angle projection?	CO3	U U	2	T	1.3.1
80	Enlist types of Plane Difference between 1st angle method & 3rd angle method.	CO3	U	2 2	T T	1.3.1
81	State the position of FV, TV and LHSV in 3rd angle projection	CO3	U	2	T	1.3.1
82	Draw the symbol of 3rd angle projection	CO3	U	2	T	1.3.1
83	Define orthographic projections	CO3	A	2	T	1.3.1
84	In orthographic projections, the FV, TV and SV are projected on which reference planes?	CO3	R	2	T	1.3.1
85	What XY line indicates in TV and FV?	CO3	U	2	T	1.3.1
86	Draw the symbol of 1st angle projection	CO3	U	2	T	1.3.1
87	What is 3rd angle projection?	CO3	A	2	T	1.3.1
88	Draw TV along the shown arrow direction	CO3	A	5	N	3.2.1
89	Draw FV along X direction	CO3	U	5	N	3.2.1
90	Draw the FV of given figure along the shown arrow	CO3	υ	5	N	3.2.1

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91	Draw FV along the shown arrow direction	CO3	А	5	N	3.2.1
92	Draw the TV of given figure along the shown arrow	CO3	A	5	N	3.2.1
93	Draw TV along X direction	CO3	A	5	N	3.2.1
94	Draw TV along X direction	CO3	A	5	N	3.2.1
95	Draw a) FV along X b) Side View	CO3	U	10	N	3,2.1
96	Draw a) FV along X b) TV	CO3	Α	10	N	3,2.1
97	Draw a) FV along X b) TV c) Side View	CO3	A	10	N	3.2.1
98	Draw sectional FV along AA & TV of the given figure.	CO3	A	10	N	3.2.1

Down 11 Sectional EV (doing A-A) 25 LHEV Down 12 Sectional EV (doing A-A) 25 LHEV Down 12 Sectional EV (doing A-A) 25 LHEV Down 12 Sectional EV (doing A-A) 25 LHEV Down 13 Sectional EV (doing A-A) 25 LHEV Down 14 Sectional EV (doing A-A) 25 LHEV Down 15 Sectional EV (doing A-							
Down TyPY (Along X) 27 LEW 3) TV 102	99	Draw 1) Sectional FV (along A-A) 2) LHSV	CO3	U	10	N	3.2.1
Draw the FV of a triangular prism, base 40 mm side and axis 50 mm long, resting on one of its bases on the HP, with a cod U 2 N vertical face perspendicular to the V.P. 103 Draw the between a persuagened pyramid, base 25 mm long, having its base on the V.P. 104 Draw the top view of a square pyramid with a base side of 50 mm, placed on the HP such that two adjacent base edges are equally architector to the V.P. 105 Draw a persuagened side Polima. 106 Draw a persuagened side Polima. 107 Draw a bessagened of side Polima. 108 Draw a persuagened side Polima. 109 Draw a bessagened side Solma. 109 Draw a bessagened side Solma. 100 Draw a bessagened side Solma. 101 Draw a bessagened side Solma. 102 N N Draw a bessagened side Solma. 103 Draw a bessagened side Solma. 104 U 2 N N Draw a bessagened side of solve 25 mm kept on HP on the special separated to V.P. 105 Draw a bessagened side Solma. 106 Draw the Solma square pyramid side of base 25 mm kept on HP on the special separated to V.P. 109 How many slant edges a square and a pentagened pyramid have? 110 Draw the TV of a faringular prism, base 30 mm edge and axis 50 mm long, existing on one of its bases on the HP, with a cortical face perspendicular to the V.P. 111 Draw the TV of a pentagened pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP, and an edge of the base parallel to the V.P. 112 Draw the TV of a pentagened pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP, and an edge of the base parallel to the V.P. 113 Draw the TV of a pentagened pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP, and an edge of the base parallel to the V.P. 114 Draw the TV of a pentagened pyramid base 30 mm edge and axis 50 mm long, testing on the HP, on their respective bases. 115 Draw the TV of a pentagened pyramid base 30 mm edge and axis 50 mm long, testing on the HP, on their respective bases.	100	Draw 1) Sectional FV (along A-A) 2) LHSV	CO3	А	10	N	3.2.1
10.2 vertical face perspendicular to the V.P. 10.3 Draw the Base of a pentagonal pyramid, base 25 mm edge and axis 50 mm long, having its base on the V.P. 10.4 Draw the ptoy low of a square pyramid with a base side of 30 mm, placed on the HP such that two adjacent base edges are equally inclined to the V.P. 10.5 Draw a pentagon of side 50mm. 10.6 Draw to pentagon of side 50mm. 10.7 Draw a hexagon of side 50mm. 10.7 Draw a hexagon of side 50mm. 10.8 Draw to year of pentagonal pyramid of side of base 25 mm kept on HP on its apex such that one of its base edges is parallel to V.P. 10.9 Draw a hexagon of side 50mm. 10.0 Draw a hexagon of side 50mm. 10.0 Draw to Year of a square pyramid of side of base 25 mm kept on HP on its apex such that one of its base edges is parallel to V.P. 10.0 Draw to Year of a triangular prisms be 40 mm side and axis 50 mm long, resting on one of its bases on the HP, with a vertical face perspendicular to the V.P. 10.1 Draw the Year of a triangular prisms be 40 mm side and axis 50 mm long, resting on one of its bases on the HP, and an edge of the vertical face perspendicular to the V.P. 10.1 Draw the Year of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP, and an edge of the base parallel to the V.P. 10.1 Draw the Year of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP, and an edge of the base parallel to the V.P. 10.1 Draw the Year of a cylinder, base 40 mm diameter and axis 50 mm long testing on the HP, and an edge of the base parallel to the V.P. 11.1 Draw the Year of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 11.1 Draw the Year of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 11.1 Draw the Year of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 11.1 Draw the Year of the Arm the Arm that the triangular faces on the HP. 11.2 Draw the Year o	101	Draw 1) FV (Along X) 2) LHSV 3) TV	CO3	A	10	N	3.2.1
Draw the top view of a square pyramid with a base side of 30 mm, placed on the HP such that two adjacent base edges are equally inclined to the VP. 105 Draw a pentagon of side 30mm. 106 Draw top view of a hexagonal pyramid of side of base 35 mm kept on HP such that one of its base edges is parallel to VP. 107 Draw a hexagon of side 30mm. 108 Draw to yiew of a hexagonal pyramid of side of base 35 mm kept on HP on this apex such that one of its base edge is parallel to VP. 109 Draw to yiew of a square pyramid of side of base 25 mm kept on HP on this apex such that one of its base edge is parallel to VP. 109 How many slant edges a square and a pentagonal pyramid have? 110 Draw the PV of a square pyramid, base 30 mm edge and axis 50 mm long, resting on one of its bases on the HP, with a vertical face perpendicular to the V.P. 111 Draw the PV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP, and an edge of the base parallel to the V.P. 112 Draw the TV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP, and an edge of the base parallel to the V.P. 112 Draw the TV of a cylinder, base 40 mm diameter and axis 50 mm long on the HP, on their respective bases. 113 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 114 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 115 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 116 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 117 A square pyramid with a base side of 30 mm and axis height of 60 mm is resting on one of its triangular faces on the HP. 118 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the HP, on their respective bases. 119 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resti	102		CO 4	U	2	N	3.2.1
105 Draw a pentagion of side 30mm. CO 4 U 2 N	103	Draw the Base of a pentagonal pyramid, base 25 mm edge and axis 50 mm long, having its base on the V.P.	CO 4	U	2	N	3.2.1
Draw the PV of a triangular prism, base 40 mm side and axis 50 mm long, resting on one of its base on the HP, and an edge of the base parallel to the VP.	104		CO 4	U	2	N	3.2.1
107 Draw hexagon of side 30mm. CO4 U 2 N	105		CO 4	U	2	N	3.2.1
108 Draw Tr Of a square pyramid of side of base 25 mm kept on HP on its apex such that one of its base edge is parallel to VP CO 4 U 2 N	106	Draw top view of a hexagonal pyramid of side of base 35 mm kept on HP such that one of its base edges is parallel to VP	CO 4	U	2	N	3.2.1
How many slant edges a square and a pentagonal pyramid have?	107	Draw a hexagon of side 30mm.	CO 4	U	2	N	3.2.1
110 Draw the FV of a triangular prism, base 40 mm side and axis 50 mm long, resting on one of its bases on the HP, with a vertical face perpendicular to the V.P. 111 Draw the FV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. 112 Draw the FV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. 113 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. 114 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 115 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 116 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 117 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 118 Draw the FV of TV of a square pyramid side of base 30 mm and axis height 45mm with its axis parallel to HP and perpendicular to VP and base edges equally inclined to HP. 119 A square pyramid with a base side of 30 mm and an axis height of 60 mm is resting on one of its triangular faces on the HP. Draw the FV of a cylinder pyramid. 119 Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis height of 60 mm, placed on HP on its base such that one of its base edges is inclined 30 to the VP. 119 A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face 120 A pentagonal pyramid with a base edge of its base edges is inclined 30 to the VP. 120 A square pyramid of a side of base 25 mm and an axis 50 mm is resting on one of its base comers on Horizontal Plane (HP) and its axis is inclined 50 to HP. Draw its projections. 121 A square pyrami	108	Draw TV of a square pyramid of side of base 25 mm kept on HP on its apex such that one of its base edge is parallel to VP	CO 4	U	2	N	3.2.1
vertical face perpendicular to the VP 111 Draw the FV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. 112 Draw the TV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. 113 Draw the TV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long testing on the H.P. on their respective bases. 114 Draw the TV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 115 Draw the TV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 116 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 117 Draw the FV of a square pyramid side of base 30mm and axis height 45mm with its axis parallel to HP and perpendicular to VP and base edges equally inclined to HP. 117 A square pyramid with a base side of 30 mm and an axis height of 60 mm is resting on one of its triangular faces on the HP. Draw the projections of the pyramid. 118 Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis height of 60 mm is resting on one of its triangular face containing that edge is 250 inclined to HP. Draw the projections. 119 A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw the projections. 120 A Pentagonal pyramid with a base edge of 30 mm and sin neight of 60 mm is resting on one of its base corners on HP on the pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw its projections. 121 A square pyramid of a side of base 25 mm and axis 50 mm has one of its edges on the triangular faces containing that base edge is perpendicular to HP. Draw its project	109	How many slant edges a square and a pentagonal pyramid have?	CO 4	U	2	N	3.2.1
the base parallel to the V.P. 112 Draw the TV of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. 113 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 114 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 115 Draw the FV of a concep base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 116 Draw the FV of a concep base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 116 Draw the FV of a concep base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 116 Draw the FV of a concep base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 117 Draw projections of the pyramid disc of base 30 mm and an axis height 45 mm with its axis parallel to HP and perpendiculat to VP and base edges equally inclined to HP. 117 A square pyramid with a base side of 30 mm and an axis height of 60 mm is resting on one of its triangular faces on the HP. Draw projections of the pyramid. 118 Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis beight of 60 mm, placed on HP on its base such that one of its base edges is inclined 300 to the VP. 119 A square pyramid of side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw its projections. 120 A pentagonal pyramid with a base edge of 300 mm and since its since inclined 300 to the VP. 121 A hexagonal pyramid with a base and 65 mm length of axis is resting on one of its base corners on HP. Draw its projections. 122 A square pyramid of side of base 35 mm and axis round is resting on one of its base corners on HP. Draw its projections. 123 Draw the FV & TV of a pipe of diameter 60mm and axis round is resting on o	110		CO 4	Е	2	N	3.2.1
the base parallel to the V.P. 113 Draw the FV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 114 Draw the TV of a cylinder, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 115 Draw the FV of a cone, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 116 Draw the FV of a cone, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 117 Draw the FV of a cone, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 118 Draw the FV of TV of a square pyramid side of base 50 mm and axis height 45 mm with its axis parallel to HP and perpendicular to VP and base edges equally inclined to H.P. 119 A square pyramid with a base side of 30 mm and an axis height of 60 mm is resting on one of its triangular faces on the H.P. Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis beight of 60 mm, placed on HP on its base such that one of its base edges is inclined 300 to the VP. 119 A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw its projections 120 A pentagonal pyramid with a base edges parallel to VP. Draw its projections. 121 A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on one of its base corners on CO4 A 2 N P Poramidical for the January of the Januar	111		CO 4	A	2	N	3.2.1
114 Draw the TV of a cylinder, base 40 mm diameter and axis 50 mm long resting on the H.P. on their respective bases. 115 Draw the FV of a cone, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 116 Draw the FV of a cone, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 117 Can be a square pyramid side of base 30 mm and axis height 45 mm with it saxis parallel to HP and perpendicular to VP and base edges equally inclined to HP. 117 A square pyramid with a base side of 30 mm and an axis height of 60 mm is resting on one of its triangular faces on the HP. 118 Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis height of 60 mm, placed on HP on its base such that one of its base edges is inclined 300 to the VP. 119 A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face 120 A pentagonal pyramid with a base edge of 30 mm and slant edges of 70 mm is resting on one of its base corners on HO HOrizontal Plane (HP) and its axis is inclined 500 to HP. Draw its projections. 121 A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis 122 A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis 123 Draw the FV & TV of a pipe of diameter 60 mm and axis height 45 mm when its axis is perpendicular faces 124 Co 4 A 2 N 125 N 126 Draw the FV and TV of a pentagonal pyramid with a base edge of 07 mm is resting on one of its edges on HP such that the triangular faces 126 Co 4 A 2 N 127 N 128 Draw the FV and TV of a pentagonal pyramid with a base edge of 07 mm is resting on one of the deges on HP such that the triangular faces 129 Draw the FV and TV of a pentagonal pyramid with a base edge of 07 mm is resting on one of the deges on HP such that the triangular faces 120 Draw the FV and TV of a pentagonal pyramid with a base edg	112		CO 4	A	2	N	3.2.1
115 Draw the FV of a cone, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases. 116 Draw the FV & TV of a square pyramid side of base 30mm and axis height 45mm with its axis parallel to HP and peependicular to VP and base edges equally inclined to HP. 117 A square pyramid with a base side of 30 mm and an axis height of 60 mm is resting on one of its triangular faces on the HP. 118 Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis height of 60 mm, placed on HP on its base such that one of its base edges is inclined 300 to the VP. 119 A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw its projections containing that edge is 250 inclined to HP. Draw its projections. 120 A pentagonal pyramid with a base edge of 30 mm and slant edges of 70 mm is resting on one of its base corners on the restriction of the pentagonal pyramid with a base edge of 10 mm is resting on one of its base corners on the restriction of the pentagonal pyramid with a base edge of 10 mm is resting on one of its base corners on the restriction of the pentagonal pyramid with a base edge of the base and 65 mm length of axis is resting on HP on its apex with axis perpendicular to HP and one of its base edges parallel to VP. Draw its projections. 121 A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis perpendicular to HP and one of its base edges parallel to VP. Draw its projections. 122 A square pyramid of side of base 35 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces containing that base edge is perpendicular to HP. Draw its projections. 123 Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes 124 Draw the FV and TV of a pentaprism side of base 35 mm and axis 57 mm is resting on on							3.2.1 3.2.1
perpendicular to VP and base edges equally inclined to HP. 117		Draw the FV of a cone, base 40 mm diameter and axis 50 mm long, resting on the H.P. on their respective bases.					3.2.1
Draw projections of the pyramid. Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis height of 60 mm, placed on HP on its base such that one of its base edges is inclined 300 to the VP. 119 A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw its projections 120 A pentagonal pyramid with a base edge of 30 mm and slant edges of 70 mm is resting on one of its base corners on Horizontal Plane (HP) and its axis is inclined 500 to HP. Draw its projections. 121 A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis perpendicular to HP and one of its base edges parallel to VP. Draw its projections. 122 A square pyramid of side of base 35 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces containing that base edge is perpendicular to HP. Draw its projection. 123 Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes 124 Draw the FV and TV of a pentaprism side of base 35 mm and axis height 45 mm when its axis is perpendicular to HP and parallel to VP 125 A square pyramid with a base edges 20 mm and axis 50 mm has a rectangular side face is inclined at 30degree to the VP and and adjust and a square pyramid with a base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and and adjust and adjust and adjust and and axis beight 60 mm is inclined at 30degree to the VP and and adjust of base within that face is parallel to WP. Draw the projections of the Pirsm, with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and and adjust of base within that face is parallel to the Pirsm. 126 The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 30d to the HP and parallel to VP. Draw	116		CO 4	E	5	N	3.2.1
Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis height of 60 mm, placed on HP on its base such that one of its base edges is inclined 300 to the VP. 119 A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw its projections 120 A pentagonal pyramid with a base edge of 30 mm and slant edges of 70 mm is resting on one of its base corners on Horizontal Plane (HP) and its axis is inclined 500 to HP. Draw its projections. 121 A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis perpendicular to HP and one of its base edges parallel to VP. Draw its projections. 122 A square pyramid of side of base 35 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces containing that base edge is perpendicular to HP. Draw its projections. 123 Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes 124 Draw the FV and TV of a pentaprism side of base 35 mm and axis height 45 mm when its axis is perpendicular to HP and parallel to VP. 125 A square prism, side of base 40 mm and axis 75 mm is resting on one of the Centre of its base in the ground Draw the projections of the prism when one of its rectangular faces is parallel to HP. 126 A triangular prism with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and and edge of base within that face is parallel to the VP. Draw the projections of the bexagonal prism, side of base 30 mm and axis 60 mm is nectangular side face is inclined at 30degree to the VP and an edge of base within that face is parallel to the VP. Draw the projections of the prism, side of base 30 mm and axis 60 mm is nectangular side face is inclined at 30degree to the VP and an edge of base within that face is parallel to the VP. Draw the projections of	117		CO 4	A	2	N	3.2.1
A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face containing that edge is 250 inclined to HP. Draw its projections A pentagonal pyramid with a base edge of 30 mm and slant edges of 70 mm is resting on one of its base corners on Horizontal Plane (HP) and its axis is inclined 500 to HP. Draw its projections. A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis perpendicular to HP and one of its base edges parallel to VP. Draw its projections. A square pyramid of 3ide of base 35 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces containing that base edge is perpendicular to HP. Draw its projection. Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes CO 4 A 2 N Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes CO 4 A 5 N Draw the FV and TV of a pentaprism side of base 35 mm and axis height 45 mm when its axis is perpendicular to HP and parallel to VP A square pyramid of side of base 40 mm and axis 75 mm is resting on one of the Centre of its base in the ground Draw the projections of the prism when one of its rectangular faces is parallel to HP. A triangular prism with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and and adject of base within that face is parallel to VP. Draw the projections of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw	118	Draw the front view (FV) and top view (TV) of a pentagonal pyramid with a base side of 30 mm and an axis height of 60	CO 4	A	2	N	3.2.1
A pentagonal pyramid with a base edge of 30 mm and slant edges of 70 mm is resting on one of its base corners on Horizontal Plane (HP) and its axis is inclined 500 to HP. Draw its projections. A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis perpendicular to HP and one of its base edges parallel to VP. Draw its projections. A square pyramid of side of base 35 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces containing that base edge is perpendicular to HP. Draw its projections. Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes CO 4 A 2 N Draw the FV and TV of a pentaprism side of base 35 mm and axis height 45 mm when its axis is perpendicular to HP and parallel to VP Draw the FV and TV of a pentaprism side of base 35 mm and axis height 45 mm when its axis is perpendicular to HP and parallel to VP A square prism, side of base 40 mm and axis 75 mm is resting on one of the Centre of its base in the ground Draw the projections of the prism when one of its rectangular faces is parallel to HP. A triangular prism with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and an edge of base within that face is parallel to the VP. Draw the projections of the prism. Side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw	119	A square pyramid of a side of base 25 mm and an axis 50 mm has one of its edges of base on HP and triangular face	CO 4	A	2	N	3.2.1
A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis perpendicular to HP and one of its base edges parallel to VP. Draw it projections. A square pyramid of side of base 55 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces containing that base edge is perpendicular to HP. Draw its projection. Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes CO 4 A 2 N Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes CO 4 E 5 N Draw the FV and TV of a pentaprism side of base 35 mm and axis height 45 mm when its axis is perpendicular to HP and parallel to VP A square prism, side of base 40 mm and axis 75 mm is resting on one of the Centre of its base in the ground Draw the projections of the prism when one of its rectangular faces is parallel to HP. A triangular prism with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and an edge of base within that face is parallel to the VP. Draw the projections of the prism. The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw	120	A pentagonal pyramid with a base edge of 30 mm and slant edges of 70 mm is resting on one of its base corners on	CO 4	A	2	N	3.2.1
perpendicular to HP and one of its base edges parallel to VP. Draw its projections. A square pyramid of side of base 55 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces containing that base edge is perpendicular to HP. Draw its projection. Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes CO 4	121	A hexagonal pyramid of 25 mm edge of the base and 65 mm length of axis is resting on HP on its apex with axis	CO 4	A	2	N	3.2.1
Containing that base edge is perpendicular to FH? Draw its projection. 123 Draw the FV & TV of a pipe of diameter 60mm and axis height 95mm, having its axis parallel to both the reference planes CO 4 E 5 N 124 Draw the FV and TV of a pentaprism side of base 35 mm and axis height 45 mm when its axis is perpendicular to HP and parallel to VP and Its parallel to VP. A square prism, side of base 40 mm and axis 75 mm is resting on one of the Centre of its base in the ground Draw the projections of the prism when one of its rectangular faces is parallel to HP. A triangular prism with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and an edge of base within that face is parallel to the VP. Draw the projections of the prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw CO 4 E 5 N The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw		A square pyramid of side of base 35 mm and axis 70 mm is resting on one of its edges on HP such that the triangular faces					3.2.1
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parallel to VP A square prism, side of base 40 mm and axis 75 mm is resting on one of the Centre of its base in the ground. Draw the projections of the prism when one of its restangular faces is parallel to HP. A triangular prism with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30 degree to the VP and an edge of base within that face is parallel to the VP. Draw the projections of the prism. The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw CO 4 E 5 N The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw							3.2.1
projections of the prism when one of itsrectangular faces is parallel to HP. 126 A triangular prism with its base edges 20 mm and axis 35 mm has a rectangular side face is inclined at 30degree to the VP and an edge of base within that face is parallel to the VP. Draw the projections of the prism. 127 The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw 128 CO 4 E 5 N 129 N 120 A 5 N		parallel to VP					3.2.1
and an edge of base within that face is parallel to the VP. Draw the projections of the prism. The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw CO 4 A 5 N	125	projections of the prism when one of its rectangular faces is parallel to HP.	CO 4	Е		N	3.2.1
	126	and an edge of base within that face is parallel to the VP. Draw the projections of the prism.	CO 4	Е	5	N	3.2.1
its projections	127	The axis of the hexagonal prism, side of base 30 mm and height 60 mm is inclined at 300 to the HP and parallel to VP. Draw its projections	CO 4	A	5	N	3.2.1
A right pentagonal prism 90 mm high with each side of the base 30 mm is resting on one of the base edges on the horizontal plane and the face containing that edge is inclined at 45degree to the HP. Draw the projections of the pentagonal prism.	128		CO 4	Е	5	N	3.2.1
Draw the plan and elevation of a right circular tube 50mm diameter of the base and 100mm axis length, when its axis is inclined at 50° to the H.P. and 17° to the V.P.	129		CO 4	A	10	N	3.2.1
A conical shape, diameter 60 mm and height 70 mm has one of the generators in the HP and the plane containing the axis and that generator makes an angle 45° with VP. Draw the projections of the cone when the apex is away from the observer.	130		CO 4	Е	10	N	3.2.1
A square pyramid with a base edge of 30 mm and axis height of 70 mm is placed on one of its base edges on the Horizontal Plane (HP). One of its triangular faces, containing this base edge, is inclined at 50° to the HP, and the base edge within this face is parallel to the Vertical Plane (VP). Draw the orthographic projections of the pyramid.	131	Plane (HP). One of its triangular faces, containing this base edge, is inclined at 50° to the HP, and the base edge within this	CO 4	A	10	N	3.2.1
A pentagonal pyramid base edge 28 mm and axis height 60 mm long rests on its base edges on HP. Draw its projections if the axis is 350 inclined to HP and top view of the axis is 350 inclined to HP and top view of the axis is 350 inclined to the VP. Consider apex is nearer to the observer.	132		CO 4	A	10	N	3.2.1
A square pyramid with a base side of 35 mm and an axis height of 70 mm is placed on the Horizontal Plane (HP) on one of its base corners. The slant edges containing that base corner is inclined at 450 to HP and top view of that slant edge is CO 4 A 10 N	133		CO 4	A	10	N	3.2.1

Appendix promotion of the control	134	A pentagonal pyramid base edge 28 mm and axis height 60 mm long rests on its base edges on HP such that the triangular	CO 4	A	10	N	3.2.1
17 Descript in procession and an improve to with CVP. Additional Control 1999 19	135		CO 4	A	10	N	3.2.1
Appendix with a segret of each of the feeth man and any and produced in the control of the con	136		CO 4	A	10	N	3.2.1
19	137	A pyramid with a square of side of base 40mm and axis 70 mm has one of the triangular faces on the VP. Draw the	CO 4	A	10	N	3.2.1
Section Continues of Continues and Sequence to the Sequence of Continues of Continues and Continue	138	A square pyramid, side of base 40 mm, axis length 60 mm is suspended by a string from one of its corners of the base. The	CO 4	A	10	N	3.2.1
140 Section 150	139	A tetrahedron PQRS of 50 mm long edges has edge PQ in the HP. The edge RS is inclined at 30° and 45° to the HP and VP	CO 4	A	10	N	3.2.1
1-11 Stock Child a regard proposed for the control process of th	140	base is making an angle of 30° with XY line in top view. Draw projections of pyramid, whose base size is 40 mm x 50 mm	CO 4	Е	10	N	3.2.1
10		Draw DLS of a square pyramid of base side 20mm and slant edge 50mm					
14 Secret Society of an international content of the medic of the product of the content of		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
100 December 2014 of International Journal of December 2014 100 17							
Additional Content of the Content	146		CO5	U	2	N	3.2.1
An instruction Company							
1975 Institute at Law (Department the world is a may present all and any any antimized any any antimized and any any antimized any any antimized and any and any antimized and any antimized and any and any antimized any and any antimized any and any antimized any antimized any and any antimized any antimized any and any antimized any and any antimized any and any antimized any antimized any antimized any and any antimized any a	148	section plane. (Assume the solid is square pyramid of any size resting on its base on HP)	CO5	U	2	N	3.2.1
1.52		section plane. (Assume the solid is any pyramid of any size resting on its base on HP)					
132							
1975 Particul actions of the particul of a common with blance distinct of 100 mm, and height 120 mm to cell by a place recision of 100 mm. Code U 2 T 3.21	151	sectional views.	COS	U	2	Т	3.2.1
15 Section of the Company of the	152	FV and sectional TV.	CO5	U	2	T	3.2.1
1935 September Content 1935 September 1	153		CO5	U	2	T	3.2.1
Appending purpose and who beare degree 20 miles and early the 20 miles of the control of the 20 miles of the 20 mi	154	A square pyramid with base side 40 mm and axis height 90 mm is cut by an AIP inclined 45° to HP, passing 30 mm below the apex.	CO5	U	2	T	3.2.1
Section of Views Part of	155	A pentagonal pyramid with base edge 30 mm and axis height 80 mm is cut by a plane inclined at 50° to HP and bisecting the axis. Draw	CO5	U	2	Т	3.2.1
A perceptional provision de the effect of blast 25 mm and date 35 mm freight in creating on this base on thifty with once of this base edges properties of the control of t							
Service Servic	157	A pentagonal pyramid with edge of base 30 mm and axis 55 mm length is resting on its base on HP, with one of its base edge	CO5	A	5	N	3.2.1
The Far War of Sectional Top view of the spyrmind if the culting place is inclined to the PL and a specific view of place in the place of the PL and a specific view of the Section II and the PL and a specific view of the Section II and I	150	view.					221
sectional "If the catting given is inclinated as iff at an angle 50° and Beaching the axes of pyramid." 160 Averageously premit with religion of the Section of the Sectio		Draw FV and Sectional Top view of the pyramid if the cutting plane is inclined to HP at an angle 45° and bisecting the axis of pyramid					
	159		CO5	A	5	N	3.2.1
10 Syramid the cutting plane is inclined to RF an angle 80 and discerting the axis of pryamid. 10 10 10 10 10 10 10 1		perpendicular to VP. It is cut by a AIP inclined at an angle 50° to HP and bisecting the axis. Draw FV and sectional top view.					
16.0 Oraw the Pri and Sectional Top view of the pyramid, its cut by AIP inclined to PP at an angle 50° and 30mm below appe. COS A 10 N 3.2.1	161		CO5	A	5	N	3.2.1
103	162	Draw the FV and Sectional Top view of the pyramid, it is cut by AIP inclined to HP at an angle 50° and 30mm below apex.	CO5	A	5	N	3.2.1
169	163	bisecting the axis of the pyramid. Draw FV Sectional Top View, DLS of the pyramid.		A	10		3.2.1
165	164	through a point 35 mm below the apex. Draw FV, sectional TV, and DLS.	CO5	A	10	N	3.2.1
160 base, Draw M, sectional TV, and OLS. 161 N 3.2.1	165		CO5	A	10	N	3.2.1
16	166		CO5	A	10	N	3.2.1
Inclined at 30° to IPP, passing 25 mm below the apex. Draw IPV, sectional IV, and DIS. Cost A 10 N 3.2.1	167		CO5	A	10	N	3.2.1
cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 45 mm above the base. Draw FV, Sectional Top View, DLS. A fustum of a hexagonal pyramid with base side 40 mm and top base side 25 mm is cut by an inclined plane. Develop its lateral surface. A triangular pyramid with base side 45 mm and height 70 mm is cut by a plane inclined 40° to HP, passing 30 mm above the base. COS A 10 N 3.2.1 A triangular pyramid with base side 45 mm and height 70 mm is cut by a plane inclined 40° to HP, passing 30 mm above the base. COS A 10 N N 3.2.1 A pentagonal pyrism with base side 33 mm and height 70 mm is cut by a plane inclined 40° to HP. Draw FV, sectional TV & Develop its View District surface. A pentagonal pyrism with base edge 30 mm and height 70 mm is cut by a plane inclined 40° to HP. Draw FV, sectional TV & Develop its Subreal surface. A pentagonal pyrism with base edge 30 mm and height 70 mm is cut by a plane inclined 40° to HP. Draw FV, sectional TV & Develop its Subreal surface. A cone of base diameter 65 mm and axis 100 mm is resting on its base on HP. It is cut by a horizontal plane passing 45 mm below the spee. Draw FV sectional Tvp VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the spee. Draw FV Sectional Top VPW. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm above the base. Draw FV, Sectional Top VPW. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm above the base. Draw FV, Sectional Top VPW. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm above the base. Draw FV, Sectional Top VPW. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the pase. Draw FV, Sectional Top VPW. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the ages. Draw FV, Sectional Top VPW. It is cut by an AIP inclined at an angle 30° to HP. Cuttin	168		CO5	A	10	N	3.2.1
170 surface. 171 A friangular pyramid with base side 45 mm and height 70 mm is cut by a plane inclined 40" to HP, passing 30 mm above the base. 172 A hexagonal prism with base side 35 mm and height 80 mm is cut by an AIP inclined at 30" to HP, bisecting the axis. Draw FV, sectional VP, and OLS. 173 A pentagonal prism with base edge 30 mm and height 70 mm is cut by a plane inclined 40" to HP. Draw FV, sectional TV & Draw FV. Sectional VP, and TUS. 174 A cone of base diameter 65 mm and axis 100 mm is resting on HP on its base on HP. It is cut by a horizontal plane passing 45 mm below the apex. Draw FV, sectional TV & AD A Quarter pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30" to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional TOp View, DLS. 175 A pentagonal pyramid base 25 mm side, axis 60 mm is lying on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30" to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional TOp View, DLS A 100 N 3.2.1 176 A hexagonal pyramid base 25 mm side, axis 60 mm is lying on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30" to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional Top View, DLS A 100 N 3.2.1 177 A hexagonal pyramid side of base 30 mm, axis height 60 mm is resting on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30" to HP. Dissecting the axis of the pyramid. Draw FV, Sectional Top View, DLS A 100 N 3.2.1 178 A hexagonal pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that its adjacent base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30" to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sect	169		CO5	A	10	N	3.2.1
A fraingular pyramid with base side 45 mm and height 70 mm is cut by a plane inclined 40° to HP, passing 30 mm above the base. COS	170		CO5	A	10	N	3.2.1
172 A hexagonal pyramid base side 35 mm and height 80 mm is cut by a plan inclined at 30° to HP, bisecting the axis. Draw FV, sectional TV & Develop its lateral surface. 173 A pentagonal pyramid base edge 30 mm and height 70 mm is cut by a plane inclined 40° to HP. Draw FV, sectional TV & Develop its lateral surface. 174 A cone of base diameter 65 mm and axis 100 mm is resting on its base on HP. It is cut by a horizontal plane passing 45 mm below the apex. Draw FV, sectional TV, and True shape. 175 A cone of base diameter 65 mm and axis 100 mm is resting on its base on HP. It is cut by a horizontal plane passing 45 mm below the apex. Draw FV, sectional TV, and True shape. 176 A square pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. 177 A hexagonal pyramid base 25 mm side, axis 60 mm is lying on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional Top View, DLS. 177 A hexagonal pyramid side of base 30 mm, axis height 60 mm is resting on HP on its base such that one of its base edges is parallel to VP. It is cut by an AIP inclined at an angle 45° to HP, bisecting the axis of the pyramid. Draw FV, Sectional Top View, DLS. 178 A square pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that its adjacent base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 45° to HP, bisecting the axis of the pyramid. Draw FV, Sectional Top View, DLS. 189 A beagonal Pyramid side of base 35 mm and axis height 70 mm is resting on HP on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Dra							
172 TV, and DLS. 173 A pentagonal prism with base edge 30 mm and height 70 mm is cut by a plane inclined 40° to HP. Draw FV, sectional TV & Develop its lateral surface. 174 A cone of base diameter 65 mm and axis 100 mm is resting on its base on HP. It is cut by a horizontal plane passing 45 mm below the apex. Draw FV, sectional TV, and True shape. 175 A square pryamid side of base 30 mm, axis height 70 mm is resting on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. 176 A pentagonal pyramid base 25 mm side, axis 60 mm is lying on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm above the base. Draw the FV, Sectional Top View, DLS. 177 A hexagonal pyramid side of base 30 mm, axis height 60 mm is resting on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 45° to HP, bisecting the axis of the pyramid. Draw FV, Sectional Top View, DLS. 177 A hexagonal pyramid side of base 30 mm, axis height 60 mm is resting on HP on its base such that one of its base edges is parallel to VP. It is cut by an AlP inclined at an angle 45° to HP, bisecting the axis of the pyramid. Draw FV, Sectional Top View, DLS. 178 A square pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that its adjacent base edges are equally inclined to VP. It is cut by an AlP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. 179 A hexagonal Pyramid side of base 35 mm and axis length 70 mm is resting on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. 180 Define i							
A cone of base diameter 65 mm and axis 100 mm is resting on its base on HP. It is cut by a horizontal plane passing 45 mm below the spex. Draw PV, sectional TV, and True shape. A square pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 30" to HP. Cutting plane passes at a point 25 mm below the apex. Draw PV, Sectional Top View, DLS. A pentagonal pyramid base 25 mm side, axis 60 mm is lying on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 30" to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional Top View, DLS of the pyramid. A pentagonal pyramid base 25 mm side, axis 60 mm is lying on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 30" to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional Top View, DLS of the pyramid. A pentagonal pyramid side of base 30 mm, axis height 60 mm is resting on HP on its base such that one of its base edges is parallel to VP. It is cut by an AlP inclined at an angle 45" to HP, bisecting the axis of the pyramid. Draw FV, Sectional Top View, DLS. A square pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that its adjacent base edges is parallel to VP. It is cut by an AlP inclined at an angle 30" to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. A hexagonal Pyramid side of base 30 mm, axis height 70 mm is resting on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an AlP inclined at an angle 30" to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. A hexagonal Pyramid side of base 35 mm and axis length 70 mm is resting on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an AlP in		TV, and DLS.		A			
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175 VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, US. A pentagonal pyramid base 25 mm side, axis 60 mm is lying on HP on its base such that one of its base edges is perpendicular to VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional Top View, DLS of the pyramid.	174	apex. Draw FV, sectional TV, and True shape.	CO5	A	10	N	3.2.1
176 Is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 35 mm above the base. Draw the FV, Sectional Top View, DLS of the pyramid. A hexagonal pyramid side of base 30 mm, axis height 60 mm is resting on HP on its base edges is parallel to VP. It is cut by an AIP inclined at an angle 45° to HP, bisecting the axis of the pyramid. Draw FV, Sectional Top View, DLS. A square pyramid side of base 30 mm, axis height 70 mm is resting on HP on its base such that its adjacent base edges are equally inclined to VP. It is cut by an AIP inclined at an angle 40° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. A hexagonal Pyramid side of base 35 mm and axis length 70 mm is resting on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an Auxiliary Inclined Plane (AIP) which is inclined at 45° to HP, bisecting the axis of pyramid. Draw IIPV IIPV IIPS Sectional Top View III) DLS 180 Define isometric projections 181 Draw an isocircle of 30mm diameter on the left plane 182 Draw an isocircle of 40mm diameter on the top plane 184 Name the method to draw isometric circle 185 What shape do we get by drawing circle in isometric projections 186 What shape do we get by drawing circle in isometric projections 187 Draw an isocircle of 40 mwing circle in isometric projections 188 What shape do we get by drawing circle in isometric projections 189 What shape do we get by drawing circle in isometric projections 180 Name the method to draw isometric projections	175	VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top	CO5	A	10	N	3.2.1
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Inclined to VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV, Sectional Top View, DLS. A hexagonal Pyramid side of base 35 mm and axis length 70 mm is resting on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an Auxiliary Inclined Plane (AIP) which is inclined at 45° to HP, bisecting the axis of pyramid. Draw IIP VIEW IIP Sectional Top View IIIP Section	177	A hexagonal pyramid side of base 30 mm, axis height 60 mm is resting on HP on its base such that one of its base edges is parallel to	CO5	A	10	N	3.2.1
A hexagonal Pyramid side of base 35 mm and axis length 70 mm is resting on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an Auxiliary Inclined Plane (AIP) which is inclined at 45° to HP, bisecting the axis of pyramid. Draw I JPV I	178	inclined to VP. It is cut by an AIP inclined at an angle 30° to HP. Cutting plane passes at a point 25 mm below the apex. Draw FV,	CO5	A	10	N	3.2.1
180 Define isometric projections CO6 U 2 T 3.2.1 181 Draw an isocircle of 30mm diameter on the left plane CO6 U 2 N 3.2.1 182 Draw an isocircle of 40mm diameter on the right plane CO6 U 2 N 3.2.1 183 Draw an isocircle of 50mm diameter on the top plane CO6 U 2 N 3.2.1 184 Name the method to draw isometric circle CO6 U 2 T 3.2.1 185 What shape do we get by drawing circle in isometric projections CO6 U 2 T 3.2.1	179	A hexagonal Pyramid side of base 35 mm and axis length 70 mm is resting on its base on HP such that one of its base edges is perpendicular to VP. It is cut by an Auxiliary Inclined Plane (AIP) which is inclined at 45°to HP, bisecting the axis of pyramid. Draw I)FV II)FV II)Sectional Top View	CO5	A	10	N	3.2.1
181 Draw an isocircle of 30mm diameter on the left plane CO6 U 2 N 3.2.1 182 Draw an isocircle of 40mm diameter on the right plane CO6 U 2 N 3.2.1 183 Draw an isocircle of 50mm diameter on the top plane CO6 U 2 N 3.2.1 184 Name the method to draw isometric circle CO6 U 2 T 3.2.1 185 What shape do we get by drawing circle in isometric projections CO6 U 2 T 3.2.1	100		60%	***	2	T	2.2.1
183 Draw an isocircle of 50mm diameter on the top plane CO6 U 2 N 3.2.1 184 Name the method to draw isometric circle CO6 U 2 T 3.2.1 185 What shape do we get by drawing circle in isometric projections CO6 U 2 T 3.2.1 3.2.1 T 3.2.1 T 3.2.1	181	Draw an isocircle of 30mm diameter on the left plane	CO6	U	2	N	3.2.1
184 Name the method to draw isometric circle CO6 U 2 T 3.2.1 185 What shape do we get by drawing circle in isometric projections CO6 U 2 T 3.2.1							
	184	Name the method to draw isometric circle	CO6	U	2	T	3.2.1
	185 186	What shape do we get by drawing circle in isometric projections Draw an isocircle of 45mm diameter on the right plane	CO6	U A	_		3.2.1 3.2.1

187	Draw isometric view for the given two views 25	CO6	Α	5	N	3.2.1
188	E. H. S. V.	C06	Α	5	N	3.2.1
189	Draw isometric view for the given two views F. V.	CO6	Α	5	N	3.2.1
190	Draw isometric view for the given two views	C06	Α	5	N	3.2.1
191	Draw isometric view for the given two views F.V. 2	C06	Α	5	N	3.2.1
192	Draw isometric view for the given two views S	CO6	Α	5	N	3.2.1

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193	Draw isometric view for the given two views 33 12 12 13 14 15 16 17 18 18 18 19 19 19 10 10 10 10 10 10 10	C06	Α	5	N	3.2.1
	Draw isometric view for the given two views					
194	24 24 25	CO6	Α	10	N	3.2.1
195	Draw isometric view for the given two views ST	CO6	Α	10	N	3.2.1
	Draw isometric view for the given two views					
196	© F.V. 9	CO6	Α	10	N	3.2.1
197	Draw isometric view for the given two views RED RED RED RED RED RED RED RE	CO6	Α	10	N	3.2.1
198	Draw isometric view for the given two views Front View 20, 20, 20, 20, 30, 30, 30, 30, 30, 30, 30, 30, 30, 3	C06	A	10	N	3.2.1

	Draw isometric view for the given two views					
199	F.V. 8 90 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CO6	Α	10	N	3.2.1
200	Draw isometric view for the given two views T.V. 24 24 38 30 30 30 30 30 30 30	CO6	Α	10	N	3.2.1