

Academic Challenge 2024

Topic Distribution – Engineering Graphics

<i>Topic</i>	<i>Regional</i>	<i>Sectional</i>	<i>State</i>
Written Questions – Some With Illustrations			
The Drafting Field (Terms, Equipment, ASME standards...)	1	1	1
Units/Measuring/Scales	2	2	2
Geometric Construction	3	2	2
Orthographic Projection Theory and Spatial Visualization	4	4	3
Pictorial Drawings	1	1	1
Sectional Views	3	2	2
Auxiliary Views	1	1	1
CAD (Non-software specific 2D and 3D)	2	2	2
Manufacturing Processes	1	1	1
Threads and Fasteners	2	2	2
Dimensioning	3	3	3
Tolerancing	1	2	2
Developments and Intersections	-	1	1
Specialized Applications (Welding/Piping/Electrical...)	-	-	1
Visual Problems and Spatial Visualization			
Isometric Comprehension Problems (Sketch & Count)	2	2	2
Missing Line Problems (Sketch & Count)	2	2	2
Pictorial Visualization Problems	4	4	4
Missing View Visualization Problems	4	4	4
Section View Visualization Problems	4	4	4
Total	40	40	40

