

BRAC UNIVERSITY

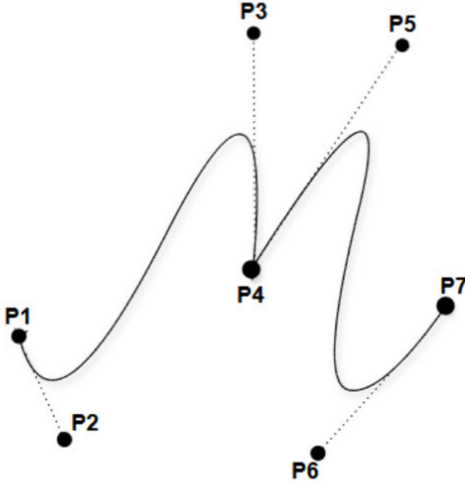
Department of Computer Science and Engineering

Quiz 04
Duration: 35 minutes

Semester: Spring 2025
Full Marks: 20

CSE 423: Computer Graphics

Name:	ID:	Section:
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1.	<p>a) What are control points in a Bézier curve? [2]</p>  <p>b) For the spline above, which control point must be locked for C^1 continuity? Show your workings [6]</p> <p>c) If C^1 continuity is reached, will it automatically be G^1 continuous? Explain. [2]</p>
2.	<p>a) The Cabinet projection of a point, $P(10, 10, 10)$, is $P'(14.33, 20, 12.5)$ onto a ZX projection plane. Find the orientation angle, β. [5]</p> <p>b) For COP at $(50, 10, -10)$, calculate the projected point P' for a point $P(10, 10, -250)$ where the Projection Plane (PP) is 100 units away from COP. [5]</p> <p>*You have to use matrix calculations and show all workings.</p>