

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Make-up Examination-Nov-2025

COURSE CODE (CREDITS): 18B11CI515

MAX. MARKS: 25

COURSE NAME: Computer Graphics

COURSE INSTRUCTORS: ATA, PTK, SMA, AYS

MAX. TIME: 1 Hour 30

Minutes

Note: Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	CO	Marks
Q1	1) What is the need of homogenous matrix? 2) Provide inverse 2D rotation, inverse 2D scaling, and inverse 2D translation matrix.	3	2+3
Q2	Perform a 45 degree rotation of Triangle A(0,0) B(1,1) and C(5,2) 1) About an origin and 2) About P(-1,-1)	3	5
Q3	Consider the triangle A (0, 0), B (2, 2) and C (10, 4). You are required to magnify the triangle 4 times its original size using following conditions: 1) With respect to origin 2) Fixed point (10,4) Identify new vertices of triangle.	3	5
Q4	Use the Cohen Sutherland algorithm to clip line P1(35,10)- P2(65,40) against a window A(50,10), B(80,10), C(80,40) and D(50,40)	2	5
Q5	Short Note : 1) NLN CLIPPING and 2) Inside Outside Test	2	2.5*2
	ALL THE BEST		