Enrolment No.

HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL MID SEMESTER EXAMINATION, SEPTEMBER-2016 Subject Code: 2151603 Date: 27/09/2016 Subject Name: Computer Graphics Time: 10:00 TO 10:50

Sem: 5TH

Total Marks: 20

LALOPH	11mc. 10.00 10 10.00	
1. 2.	structions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
QUE.1	(A) Write the short note on:	3
	(1.) DVST	
	(2.) Plasma Panel	
	(3.) LCD	
	(B) Implement the DDA algorithm to draw a line from (0, 0) to (6,6).	3
QUE.2	(A) What are the different methods of character generation?	3
	(B) Show the composition of two scaling is multiplicative by concatenating the matrix	4
	representation for $[S(sx2,sy2).S(sx1,sy1)=S(sx1.sx2,sy1.sy2)]$	
	OR	
	(B) Translate the square ABCD whose co-ordinate are $A(0,0)$, $B(3,0)$, $C(3,3)$ and $D(0,3)$	4
	by 2 units in both directions and then scale it by 1.5 units in x-direction and 0.5	
	units in y-direction.	
QUE.3	(A) What is shearing transformation? Explain with example.	3
	(B) Show the three transformation matrices used to rotate a figure 90 ⁰ anti-clockwise	4
	about (3, 3). Also generate the transformation matrix.	
	OR	
	(A) What do you understand by homogenous co-ordinate?	3
	(B) What are the basic transformations? Describe each with their matrix representation.	4