POKHARA UNIVERSITY

Prog	el: Bachelor gramme: BE	Semester: Fall	Year : 2021 Full Marks: 100	
Cou	rse: Computer Graphics		Pass Marks: 45 Time : 3hrs	•
	ndidates are required to oracticable.	give their answers	in their own words as fa	r
The	figures in the margin in	ndicate full marks.		
Atte	empt all the questions.			
a)	Define computer grap graphics in different fie		plication of computer	7
b)	In a true color system is refresh rate of 60fps cal			8
	i. Size of frame buffe	er		
	ii. Access time of one	frame		
	iii. Access time for one	e pixel		
,	iv. Access time for one	e row		
No	te: convert your memory	into Mega Byte.		
a)	Differentiate between along with their archite		scan display system	8
b)	Digitize the first octant at (3,4)	of a circle having i	radius r=8 and centered	7
a)	Prove that successive t	translation and rota	tion is additive.	8
b)	Explain the role of geometric transformation		formation in 2D/3D g pipelining in 2D.	7
a)	What is 3D transform C(4,2) about the origin		riangle A(0,0), B(2,2),	8
b)	How you represent between parallel and p		in 3D. Differentiate on with example?	7
a)	What is Mach band ef Phong shading.	fect? Differentiate	between Gouraud and	8
b)	Define color model in additive color and subtr		Differentiate between	7

		Explain the importance of hidden surface removal in computer graphics. What are the drawbacks of z-buffer method and how it is corrected in A-buffer?	7
	b)	Explain how machine independent graphical language are more preferable to develop graphical project.	8
7.	Wri	te short notes on: (Any two)	2×5
		a) Open GL	
		b) Beizer curve	
		c) Polygon Table	