

Reg.No. \_\_\_\_\_



# Karunya UNIVERSITY

(Karunya Institute of Technology & Sciences)  
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

## End Semester Examination – Nov/Dec – 2016

**Code : 14MT2002**  
**Sub. Name : Digital Compositing**

**Semester : 2016-17 ODD**  
**Duration : 3hrs**  
**Max. marks : 100**

### ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Define: Depth of Field.	CO2	1
	b.	Expand HDR.	CO1,CO2	1
	c.	What is Bit Depth? Discuss its importance.	CO3	5
	d.	Explain about Normalization. Give its application.	CO2	5
	e.	Explain the working of RGB colour model with Diagram.	CO2	8
(OR)				
2.	a.	What are lossy compression formats? Explain about Chroma Subsampling in Detail.	CO2	12
	b.	Give the Applications of LUT's	CO3	2
	c.	Write short notes on Invert and Contrast operators.	CO2	6
	d.			
	e.			
3.	a.	Explain the various types of Geometric transformations.	CO2	12
	b.	Write short notes on Keymix operation.	CO3	5
	c.	Explain how Over operator is different from Keymix.	CO3	3
	d.			
	e.			
(OR)				
4.	a.	Give one way to avoid blue spill.	CO2	2
	b.	Explain the Stages involved when you are trying to Morph from one image to another.	CO1,CO2	6
	c.	What is rotoscoping?	CO3	2
	d.	Explain the process involved in keying based on chroma and Difference Matting techniques.	CO3	10
	e.			
5.	a.	What is a garbage matte?	CO3	2
	b.	Define: Persistence of Vision.	CO2	2
	c.	Explain the importance of Keyframes in animation and VFX.	CO2	4
	d.	What is Optical flow analysis? How is it better for retiming sequence of footages compared to other techniques.	CO1	12
	e.			
(OR)				
6.	a.	What is the procedure to track an element into a plate? How does one choose the tracking point?	CO2	12
	b.	List and explain the various types of User Interfaces found in compositing softwares.	CO2,CO3	8
	c.			
	d.			
	e.			

7.	a.	What are the functionalities of a proxy image?	CO2	2
	b.	Differentiate Aspect ratio from Pixel aspect ratio. Give an example for both.	CO2,CO3	4
	c.	Give the application of DPX format.	CO2	2
	d.	List and explain all the Television Video formats and their parameters.	CO2	12
	e.			
<b>(OR)</b>				
8.	a.	What is an anamorphic Format?	CO2	2
	b.	Explain the 2:3 Pulldown and Pull up process with respective applications	CO2	8
	c.	With a neat flow chart explain the General Format conversion pipeline	CO1,CO2	10
	d.			
	e.			
<b><u>Compulsory:</u></b>				
9.	a.	What are the parameters based on which the colour of the Background matte is chosen when doing keying?	CO2,CO3	10
	b.	What is a Digital Intermediate? Give its importance in the vfx industry.	CO1,CO2	10
	c.			
	d.			
	e.			

ALL THE BEST