UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2020

Course: Computer Graphics and Animation   Semester: V
Program: BCA   Time   : 03 hrs.
Course Code: CSBC 3002   Max. Marks: 100
Instructions:

SECTION A

S. No.		Marks	
Q 1	Calculate the file size File size of an 8bit RGB (10 by 10) image, Pixel dimension = 10*10, Bit depth = 8bit, # of Channel = 3 (for Red, Blue, Green).	5	CO1
Q2	Why is every Creative Commons license important?	5	CO2

Q3	Write shortcuts for the following in Blender 3D
	  a) hotkey to scale or resize the object in all directions
	  b) hotkey to translate the object in x, y, and z-axis
	  c) to select and de-select objects
	  d) to enable tool shelf
	  e) Enable proportional editing
		5	CO3

Q4	Write use of following tools in GIMP
	  a) Dodge and Burn
	  b) Smudge tool
		5	CO4

Q5	Are There any risk Having Movie box on Your Devices? How To Stay Safe Using Movie Box?	5	CO5
Q6	Differentiate Additive and Subtractive Color Models.	5	CO2
SECTION B			
Q 7	Discuss the techniques for drawing images in CRTs.	10	CO1
Q 8	Give an account of user interface design process along with the design principles.	10	CO2

Q 9	Write use and steps of application for the following tools:
	  a) Loop cut tool
	  b) Bevel tool
		10	CO3

Q 10	Write steps to color a black and white image using GIMP.	10	CO4
OR			
Q10	What is the purpose of creating layers when working with images in GIMP? Explain with an example.		
Q11	In Blender, 3D a monkey object is to be added to the scene and then duplicates are to be created for the added monkey object. Which modifier will you use to duplicate the object? Write steps to perform the addition and duplication.	10	CO3

SECTION-C			
Q12	Discuss the conceptual model that describes what steps a graphics system needs to perform to render a 3D scene to a 2D screen.		
	OR	**20**	**CO1**
Q12	"Typography is significant in User Interface (UI) Design and User experience (UX)". Justify the statement giving suitable examples.		