UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, Dec- 2019

Programme Name: B.Tech Graphics and Gaming **Semester** : I
Course Name : Introduction to graphics and animation tools using OSS **Time** : 03 hrs
Course Code : CSGG2001 **Max. Marks: 100**
Nos. of page(s) :1
Instructions: Attempt all Questions

SECTION A – Attempt All Questions

S. No.		Marks	CO
Q1	Mention five scientific applications of Computer graphics.	4	CO1
Q2	Define the terms: Pixel and Frame Buffer.	4	CO1
Q3	Differentiate between Graphic design and Web Design.	4	CO1
Q4	Discuss which color scheme would be needed for television industry and Why?	4	CO5
Q5	Write short note on Movie Sandbox.	4	CO5
SECTION B-Attempt All Questions			
Q6	Can Agile software development be adopted in gaming industry, justify your answer with valid examples.	10	CO2
Q7	Usability is one of the important aspect for the success of any product, justify the above statement and discuss its various type.	10	CO3, CO2

Q8	Justify how the following operations are achieved in GIMP,an image editing Software.
	    a. What is Script- FU in GIMP?
	    b. When to See Layer Groups in Gimp?
	    c. List the brushes available in GIMP.
	    d. What is a clone tool and why it is needed?
	    e. Explain how splitting occurs in GIMP?
		10	CO4

Q9	Vector images are the most suited images for the graphic design discuss the validity of the statement with various examples, support your answer with a comparison with raster scan architecture. Or Elucidate the concept of UV Unwrapping with respect to 3D modelling.	10	CO1,CO2, CO3, CO4

SECTION-C-Attempt All Questions			
Q10 a.	Consider a sequence of 'Tom and Jerry' where Tom is chasing Jerry after Jerry has awakened him from the sleep. Discuss all the 12 principles of animation, with proper justifications.	15+5	**CO5, CO2, CO3**
b.	Differentiate between the Eevee render and Cycle Render.		
Q11 a.	Differentiate between various types of color scheme, discuss the need for having so variety of colors, elaborate on the psychology of colors.	10+10	**CO2,C O3**
b.	Differentiate between sans and serif with respect to the word 'Kanyakumari' & 'Manhattan'.		
a. .	**OR** Answer the following with respect to Blender a. How can one select more than one editing mode. b. How do you select an object behind another? c. How do you align the active camera to the view. d. Discuss the steps involved in applying texture to a mesh. e. How do you reset the UV map of a mesh?	15 +5=20	**CO2,C O4**
b.	What are the layer masks & channels in GIMP?		