	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES			
Course Name : Web Programming for GG (HTML5 and WebGL) Time		Semester: V Time: 03 hrs Max. Marks		
	SECTION A			
S. No.		Marks	СО	
Q 1	Name any four standard attributes supported by all HTML5 tags?	4	CO1	
Q2	Write in short about any four events available in HTML?	4	CO1	
Q3	What is the purpose of placeholder attribute? Write an example code?	4	CO1, CO2	
Q4	For what purpose in WebGL, below two data types are used? i) sampler2D ii) vec4	4	CO3	
Q5	Briefly explain how background color can be cleared with blue in WebGL?	4	CO2, CO3	
	SECTION B			
Q6	Write the code for displaying below figure with the help of SVG? Also provide th geometrical coordinates used for drawing each individual object of the figure?	e 10	CO2, CO3	
Q7	Write the canvas code for displaying a moving image horizontally on the web browser?	10	CO3	
Q8	Write the typical ten steps required for mapping a texture image over a WebGL geometry? OR Write the JavaScript array, vertex shader code and fragment shader code only for applying below texture over the specified geometry?	10	CO4	

	(-0.8, 0.8) (-0.8, 0.8) (-0.8, -0.8) (0.8, -0.8)		
Q9	Define the JavaScript vertex array, vertex shader code and fragment shader code only to draw a triangle with three vertices in red, green and blue color respectively?	10	CO5
	SECTION-C		
Q10	Write the typical steps involved in rotating a 3D geometry in WebGL? (No need to write code)	20	CO4, CO5
Q11	Write the code for translating a 3D triangle by 5 unit about standard X axis, every time user press a button in WebGL?		
	OR	20	CO4, CO5
	Write the code for scaling a 3D triangle by 2 times about each standard X, Y and Z axis, every time user presses a button in WebGL?		