

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Supplementary Examination, December 2023

Programme Name: BTech. (CSE spl. GG)

Semester : V

Course Name : Web programming for GG

Time : 03 hrs

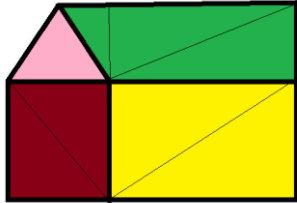
Course Code : CSGG3001

Max. Marks : 100

Nos. of page(s) : 2

SECTION A

1. Each Question will carry 5 Marks

S. No.		Marks	CO
Q 1	Write any four standard attributes available in HTML?	4	CO1
Q2	Write the HTML code for adding a button and slider on a web page?	4	CO2
Q3	Write the WebGL API to change the color of the background to blue?	4	CO3
Q4	Draw neatly the coordinates of below figure taking into account the WebGL default coordinate system? Ignore the color values. 	4	CO4
Q5	Write any four data types introduced by GLSL and not available in the standard C language?	4	CO3

SECTION B

1. Each question will carry 10 marks

2. Instruction: Write short / brief notes

Q6	Draw neatly the WebGL rendering pipeline?	10	CO4
Q7	Write about the mat4.lookAt() API?	10	CO2
Q8	Write the advantages and drawbacks of 3D programming over 2D programming?	10	CO3
Q9	Write the WebGL code to apply a texture over a triangular geometry? OR Write the WebGL code to rotate a 3D triangle by 5 radian continuously?	10	CO1

SECTION-C

1. Each Question carries 20 Marks.

2. Instruction: Write long answer.

Q10	Write the code in THREE.js (JavaScript) to display a rotating red colored torus on the web page? <p style="text-align: center;">OR</p> Write the code in THREE.js (JavaScript) to load an animation file and play it on the web page?	20	CO4
Q11	Write separate SVG codes for drawing. <ul style="list-style-type: none">a. Green color Circleb. Blue color Heartc. Black color Smiling Faced. Red color Ellipse	20	CO2, CO3, CO4