Name: Enrolment No:				
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES				
End Term Examination, December- 2020				
Programme Name: B.Tech CSE- G&G Course Name : Introduction to Game Progr	amming Semester	: III : 03 hrs		
Course Name : Introduction to Game Progra Course Code : CSGG3002	Max. Ma			
Nos. of page(s) :2	1710.3, 1710	IK5. 100		
Instructions:				
	SECTION A			
1. Each Question will carry 5 Marks				
2. Instruction: Answer briefly				
S. No.		CO		
Q1 Discuss the importance of game engine	s, mention five game engines?	CO1		
Q2 Give three examples in an application v	where one needs to apply static collider to			
the game objects.		CO2		
Q3 Arrange the event functions listed below	w in the order in which they will be			
invoked when an application is closed.				
Update()				
Ongui()				
Awake()				
Ondisable()		CO3		
Start()		005		
Lateupdate()				
Onenable()				
Onapplicationquit()				
Ondestroy()				
Q4 Differentiate between operator overload	ding and overriding.	C01		
		COI		
	e used to make things that depend on time	001		
operate correctly.		C01		
Q6 Discuss, which one is more preferred c	hoice for applying rotation to game			
object, Euler or Quaternions.		CO3		
	SECTION B			
1. Each Question will carry 10 Marks				

2. Inst	ruction: Write short answers	
Q7	<pre>Explain the issue with the code below and provide an alternative implementation that would correct the problem. using unityengine; using system.collections; public class test : monobehaviour { void start () { transform.position.x = 10; } }</pre>	CO3
Q8	Differentiate between static and dynamic collider, mention from the performance and efficiency perspective, which one is best, suited.	CO3
Q9	Discuss the importance of iterative approach for game development.   Differentiate game development life cycle with traditional software   development life cycle.	CO2
Q10	Differentiate between fixed update and late update function. Write code for null variable exception in unity and print the "Introduction to Game Programming" on successful execution.	CO1
Q11	Answer with respect to Animation in Unity, mention all the components of animation workflow. Is there a difference in animation workflow for a 2d game and 3d game?	CO2
	SECTION C h Question carries 20 Marks. ruction: Write long answer	
Q12	Create a Game design document and technical design document for an educational game to teach concept of elementary physics to students. Prototype the game with the help of storyboard, high-level conceptual diagrams and pseudo codes.(make necessary assumptions)	
	Or Write the Game AI for Tic Tac Toe Game. Mention all the game essentials, which you will incorporate in the game, design a UI as well for the game and winner screen towards the end	CO4