

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, July 2020

Programme Name : B.Tech CS (MAD)

Semester : IV

Course Name : Introduction To Game Programming

Time : 02 hrs

Course Code : CSGG 3002

Question	All of the following can be considered game technology EXCEPT:
Answer	<input type="checkbox"/> Game code <input type="checkbox"/> Game players <input checked="" type="checkbox"/> Game engine <input type="checkbox"/> Operating system

12. Multiple Choice: One of the most significant differenc...

Points: 1

Question	One of the most significant differences between players and how they engage in games is:
Answer	<input type="checkbox"/> Age <input type="checkbox"/> Culture <input checked="" type="checkbox"/> Play style (core vs. casual) <input type="checkbox"/> Gender

13. Multiple Choice: " When dynamically adding a lot of g...

Points: 1

Question	" When dynamically adding a lot of gameObjects to your game, such as explosions or bullets, the best way to clean them up after they have served their purpose is to"
Answer	<input type="checkbox"/> Inactivate them <input type="checkbox"/> Move them off camera. <input checked="" type="checkbox"/> Destroy them from the scene

14. Multiple Choice: "When working with user interface ele...

Points: 1

Question	"When working with user interface elements in Unity, it is best to:"
Answer	<input checked="" type="checkbox"/> "Switch the scene view to ""2D mode""." <input type="checkbox"/> Switch the scene view to the top-view view <input type="checkbox"/> "Switch to ""UI Layout"" mode"

15. Multiple Choice: One way to identify gameObjects in a ...

Points: 1

Question	One way to identify gameObjects in a scene (in scripts) are through:
Answer	<input checked="" type="checkbox"/> Tags. <input type="checkbox"/> labels <input type="checkbox"/> Both <input type="checkbox"/> None

16. Multiple Choice: "If two gameObjects have colliders, b...

Points: 1

Question	"If two gameObjects have colliders, but one of the gameObjects collider is set to ""is trigger"", what will happen when the two gameObjects meet?"
Answer	<input checked="" type="checkbox"/> They will collide and bouncy off each other. <input type="checkbox"/> One gameObject will become the child of the other gameObject. <input type="checkbox"/> They will pass through each other

17. Multiple Choice: One good way to organize gameObjects ...

Points: 1

Question	One good way to organize gameObjects in your hierarchy is through:
Answer	<input checked="" type="checkbox"/> Empty gameObjects <input type="checkbox"/> Making prefabs <input type="checkbox"/> Folders

18. Multiple Choice: "When you add a new component to a ga...

Points: 1

Question	"When you add a new component to a gameObject, derived from a prefab, what happens immediately:"
Answer	<input type="checkbox"/> The gameObject changes and nothing happens to the prefab <input checked="" type="checkbox"/> The prefab is updated to reflect the change. <input type="checkbox"/> "Other gameObjects, derived from the prefab, are updated"

19. Multiple Choice: "If we want to reference a gameObject...

Points: 1

Question	"If we want to reference a gameObject that the script is NOT attached to, we can do this in all the following ways except:"
Answer	<input type="checkbox"/> Use GameObject.FindWithTag() to find the game object in the scene by its tag. <input checked="" type="checkbox"/> Use this.gameObject within the script. <input type="checkbox"/> Use GameObject.Find() to find the game object in the scene by its name. <input type="checkbox"/> Have the game object set through a public variable of type GameObject in the editor.

20. Multiple Choice: What type of class variables can you ...

Points: 1

Question	What type of class variables can you see in the Unity editor by default?
Answer	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private

Protect

Static

□ 21. Multiple Choice: Time.deltaTime is

Points: 1

Question	Time.deltaTime is
Answer	<p>The amount of time since Unity started playing the current scene in seconds.</p> <p>The current time.</p> <p><input checked="" type="checkbox"/> The amount of time that gone by since the last frame update in seconds</p> <p>The universal time of air travel.</p>

□ 22. Multiple Choice: "If you define a public GameObject va...

Points: 1

Question	"If you define a public GameObject variable in a script, but do not set it in the editor to reference a GameObject or Prefab, the variable will default to:"
Answer	<p>empty</p> <p>the main camera</p> <p>nothing</p> <p><input checked="" type="checkbox"/> null</p>

□ 23. Multiple Choice: Script error messages and Debug.Log m...

Points: 1

Question	Script error messages and Debug.Log messages appear where in Unity?
Answer	<p>The scene view</p> <p>The inspector</p> <p>The hierarchy</p> <p><input checked="" type="checkbox"/> The console</p>

□ 24. Multiple Choice: "In a Unity script, which function on...

Points: 1

Question	"In a Unity script, which function only runs once:"
Answer	<p>OnTriggerEnter()</p> <p>Update()</p> <p><input checked="" type="checkbox"/> Start()</p> <p>OnCollisionEnter()</p>

25. Multiple Choice: Triggers can be used with the Animator to:

Points: 1

Question	Triggers can be used with the Animator to:
Answer	<input checked="" type="checkbox"/> Transition from one animation state to another
	<input type="checkbox"/> Have animation interact with physics.
	<input type="checkbox"/> Change the entry animation state.
	<input type="checkbox"/> None

26. Multiple Choice: "In the following code, what is the a...

Points: 1

Question	"In the following code, what is the alternative for 'on TriggerEnter' and setActive(False) <pre>void onTriggerEnter(Collider other) { if (other.GameObject.CompareTag("Pick Up")) { other.GameObject.SetActive(false); // increment the count whenever we collect the sphere. count = count + 1; } }</pre>
Answer	<input type="checkbox"/> On ColliderEnter Delete()
	<input checked="" type="checkbox"/> On ColliderEnter Destroy()
	<input type="checkbox"/> On Collider Deactivate()
	<input type="checkbox"/> On Collison Deactivate()

27. Multiple Choice: "Kindly fill the below mentioned blan...

Points: 1

Question	"Kindly fill the below mentioned blanks with proper class and method names. <pre>using UnityEngine; using System.Collections; public class PlayerController : { private Rigidbody rb; void() { rb = GetComponent (); } void() { float moveHorizontal = Input.GetAxis("Horizontal"); float moveVertical = Input.GetAxis("Vertical"); rb.AddForce(Vector3) }</pre>
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	<pre> } " </pre>
Answer	MonoBehaviour FixedUpdate Start
	<input checked="" type="checkbox"/> MonoBehaviour Start FixedUpdate
	MonoBehaviour Start Update
	MonoBehaviour Start LateUpdate

28. Multiple Choice: Which game engine is best suited for ...

Points: 1

Question	Which game engine is best suited for Game prototyping.
Answer	<input checked="" type="checkbox"/> Game Maker Blender Maya Unity

29. Multiple Choice: Which one is correct as per the game ...

Points: 1

Question	Which one is correct as per the game engine perspective
Answer	Without game engine we cannot make games Game Loop is a integral part of game layer in Game engines <input checked="" type="checkbox"/> Game engine supports 2d/3d development. Game engines support 3d game development only.

30. Multiple Choice: What is that one thing which is not i...

Points: 1

Question	What is that one thing which is not integral part fo the game engine layer
Answer	AI Control <input checked="" type="checkbox"/> Game Logic

31. Multiple Choice: Which code reports the distance between...

Points: 1

Question	Which code reports the distance between the current object and the reported Collider:
Answer	<pre>"using UnityEngine; public class ExampleClass : MonoBehaviour { void FixedUpdate() { Vector3 fwd = transform.TransformDirection(Vector3.forward); if (Physics.Raycast(transform.position, fwd, 10)) print("There is something in front of the object!"); } }"</pre> <hr/> <pre>"using UnityEngine; public class RaycastExample : MonoBehaviour { void FixedUpdate() { RaycastHit hit; if (Physics.Raycast(transform.position, -Vector3.up, out hit, 100.0f)) print("Found an object - distance: " + hit.distance); } }"</pre> <hr/> <p><input checked="" type="checkbox"/> <pre>"using UnityEngine; public class RaycastExample : MonoBehaviour { void FixedUpdate() { RaycastHit hit; if (Physics.Raycast(transform.position, -Vector3.up, out hit)) print("Found an object - distance: " + hit.distance); } }"</pre></p> <hr/> <pre>"using UnityEngine; public class ExampleClass : MonoBehaviour { void Update() { Ray ray = Camera.main.ScreenPointToRay(Input.mousePosition); if (Physics.Raycast(ray, 100)) print("Hit something!"); } }"</pre>

32. Multiple Choice: "When IsKinematic property is enabled...

Points: 1

Question	"When IsKinematic property is enabled for the Rigidbody, What exactly happens to game object"
Answer	<p><input checked="" type="checkbox"/> The object will not react to Forces and Collisions</p>

The object will react to Forces and Collisions

Object is under influence of Gravity

Object will not behave to any of the mentioned options

33. Multiple Choice: "At run time, a script can cause a n...

Points: 1

Question	"At run time, a script can cause a new object instance to be created at a certain location, how it can be achieved."
Answer	<p>Through Components</p> <p>Through Dynamic gameobjects</p> <p><input checked="" type="checkbox"/> Through Prefabs</p> <p>Not possible to instantiate</p>

34. Multiple Choice: Which one corresponds to movement in ...

Points: 1

Question	Which one corresponds to movement in only 'X' direction.
Answer	<pre>"" movement = new Vector3(0.0f, 0.0f, moveVertical); "" <input checked="" type="checkbox"/> "" movement = new Vector3(moveHorizontal, 0.0f, 0.0f); "" "" movement = new Vector3(moveHorizontal, movementDiagonal, moveVertical); "" "" movement = new Vector3(0.0f, movementVertical, moveHorizontal); ""</pre>

35. Multiple Choice: Providing names to game object in uni...

Points: 1

Question	Providing names to game object in unity will
Answer	<p><input checked="" type="checkbox"/> help in designer/developer to understand functionality of that object</p> <p>will make it easy to destroy as it is certainly a enemy NPC</p> <p>will help in story development related to game object</p> <p>will help in marketing the game as lore to associated with it</p>

36. Multiple Choice: A digital game must have this aspect

Points: 1

Question	A digital game must have this aspect
Answer	<input type="checkbox"/> story
	<input checked="" type="checkbox"/> game play
	<input type="checkbox"/> marketing
	<input type="checkbox"/> multiplayer mode

37. Multiple Choice: Most FPS(First Person Shooters) incor...

Points: 1

Question	Most FPS(First Person Shooters) incorporates this mechanism
Answer	<input checked="" type="checkbox"/> Raycasting
	<input type="checkbox"/> Delegates
	<input type="checkbox"/> Sprites
	<input type="checkbox"/> Networking

38. Multiple Choice: Using of Unity axis instead of key bi...

Points: 1

Question	Using of Unity axis instead of key bindings provide
Answer	<input type="checkbox"/> smoother game play experience
	<input type="checkbox"/> smooth less scene transition
	<input type="checkbox"/> os platform independence
	<input checked="" type="checkbox"/> Hardware platform independence

39. Multiple Choice: in 3D geometry computing distance bet...

Points: 1

Question	in 3D geometry computing distance between two points include a relatively higher time consuming under-root operation in which the given scenario we can ignore this operation
Answer	<input type="checkbox"/> while adding two distances
	<input type="checkbox"/> while subtracting one distance from another
	<input type="checkbox"/> while multiplying one distance with another
	<input checked="" type="checkbox"/> while comparing one distance from another one

40. Multiple Choice: Unreal engine is developed by

Points: 1

Question	Unreal engine is developed by
Answer	<input checked="" type="checkbox"/> Epic Games
	<input type="checkbox"/> Ubisoft
	<input type="checkbox"/> Dunia
	<input type="checkbox"/> None

41. Multiple Choice: A destructor takes _____ arguments.

Points: 1

Question	A destructor takes _____ arguments.
Answer	<input type="checkbox"/> one
	<input type="checkbox"/> two
	<input type="checkbox"/> three
	<input checked="" type="checkbox"/> No Argument

42. Multiple Choice: Separating input output from the comp...

Points: 1

Question	Separating input output from the computation logic is a good coding strategy.
Answer	<input checked="" type="checkbox"/> TRUE
	<input type="checkbox"/> FALSE
	<input type="checkbox"/> It is never possible to do so.
	<input type="checkbox"/> The programmer should always hardcode

43. Multiple Choice: Writing i/o operation inside the clas...

Points: 1

Question	Writing i/o operation inside the classes is always a better strategy.
Answer	<input type="checkbox"/> TRUE
	<input checked="" type="checkbox"/> FALSE

44. Multiple Choice: In C++ virtual keyword indicates that

Points: 1

Question	In C++ virtual keyword indicates that
Answer	<input type="checkbox"/> a derived class has public access to a base class

more than one base class exists

a base class should be used only once in inheritance

a derived class should have more than one base class constructed

45. Multiple Choice: External program elements and pre-def...

Points: 1

Question	External program elements and pre-defined functions are accessed through
Answer	<input checked="" type="checkbox"/> Header files
	Classes
	Operators
	All of them

46. Multiple Choice: "Mistakenly changing method's name as...

Points: 1

Question	"Mistakenly changing method's name as Main, rather than main, can be considered as"
Answer	<input type="checkbox"/> an entry error
	a function error
	a logic error
	<input checked="" type="checkbox"/> a syntax error

47. Multiple Choice: Operator function is also known as.

Points: 1

Question	Operator function is also known as.
Answer	<input type="checkbox"/> function overloading
	<input checked="" type="checkbox"/> operator overloading
	member overloading
	none of the mentioned

48. Multiple Choice: "If you declare two objects as Custom...

Points: 1

Question	"If you declare two objects as Customer firstCust, secondCust; which of the following must be true?"
Answer	<input type="checkbox"/> Each object's nonstatic data members will be stored in the same memory location
	<input type="checkbox"/> Each object will be stored in the same memory location

Each object will have a unique memory address

You cannot declare two objects of the same class

49. Multiple Choice: To make the LSB set bit zero in an in...

Points: 1

Question	To make the LSB set bit zero in an input integer x in c/c++ we can se the following expression?
Answer	<input type="checkbox"/> $x = x (x-1)$
	<input checked="" type="checkbox"/> $x = x \& (x-1)$
	<input type="checkbox"/> $x = x (x+1)$
	<input type="checkbox"/> $x = x \& (x+1)$

50. Multiple Choice: This programming language is best sui...

Points: 1

Question	This programming language is best suited for game development
Answer	<input type="checkbox"/> C
	<input checked="" type="checkbox"/> C#
	<input type="checkbox"/> Python
	<input type="checkbox"/> Java

51. True / False: A good place to add game music is typ...

Points: 1

Question	A good place to add game music is typically a gameObject that has the active audio listener component.
Answer	<input checked="" type="checkbox"/> True
	<input type="checkbox"/> False

52. True / False: The pixel dimensions dictate the phys...

Points: 1

Question	The pixel dimensions dictate the physical size of the display:
Answer	<input type="checkbox"/> True
	<input checked="" type="checkbox"/> False

53. True / False: You can have multiple collider compon...

Points: 1

Question	You can have multiple collider components on a single gameObject.
Answer	<input checked="" type="checkbox"/> True
	<input type="checkbox"/> False

54. True / False: A collider must be in the same shape ...

Points: 1

Question	A collider must be in the same shape as the mesh of the gameObject.
Answer	<input type="radio"/> True <input checked="" type="radio"/> False

55. True / False: A good place to add game music is typ...

Points: 1

Question	A good place to add game music is typically a gameObject that has the active audio listener component.
Answer	<input checked="" type="radio"/> True <input type="radio"/> False

56. True / False: The class name of a script does NOT h...

Points: 1

Question	The class name of a script does NOT have to be the same as the filename of the script for the script to work properly.
Answer	<input type="radio"/> True <input checked="" type="radio"/> False

57. True / False: One way to know if a particular type ...

Points: 1

Question	One way to know if a particular type of gameObject collided with another gameObject in a script is through the use of tagging.
Answer	<input checked="" type="radio"/> True <input type="radio"/> False

58. True / False: "If you child a UI element to another...

Points: 1

Question	"If you child a UI element to another UI element, the anchoring settings will be in relationship to the parent element."
Answer	<input checked="" type="radio"/> True <input type="radio"/> False

59. True / False: "Modern (non-legacy) Animations in Un...

Points: 1

Question	"Modern (non-legacy) Animations in Unity, require both an Animator Controller and Animation Clip(s)."
Answer	<input checked="" type="radio"/> True <input type="radio"/> False

60. True / False: Is Unity a Open Source game engine

Points: 1

Question	Is Unity a Open Source game engine
Answer	<input type="radio"/> True <input checked="" type="radio"/> False