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FOR GOA CLASS 10 PREPARATION

Goa Board Class 10 Sample Paper 2027 Game Developer Trainee

EXAM	YEAR	TYPE
Goa Class 10	2027	Sample Paper

Game Developer Trainee (1101)

Marks : 30 Time : 1Hr 30 min

Answer Key to Model Question Paper 2026-27

Choose the correct alternative from the given options and rewrite the complete sentence.

1. The ability that makes you complete work or studies without others cheering you is termed as **Self-motivation**
2. One of the essential quality of time management is **Punctuality**
3. A strong password should consist of **Letters, numbers and special characters**
4. The organisation has made the Sustainable Development Goals is **United Nations**

Answer the following questions in one sentence each:

5. Unnecessary files and data such as temporary files and images which uses too much hard-disk space need to be cleaned regularly. One can use disk cleaner software to clean-up such extra files.
6. She can use stress management (deep breathing), self-motivation (positive self-talk), and practice before class to improve performance.
7. Types of verbal communication:
   i. Interpersonal communication - This form of communication takes place between two individuals and is thus a one-on-one conversation.
   ii. Written Communication - This form of communication involves writing words. It can be letters, circulars, reports, manuals, SMS, social media chats, etc.
   iii. Small Group Communication - This type of communication takes place when there are more than two people involved. Examples: Press Conference, Team meetings, etc.
   iv. Public Communication - This type of communication takes place when one individual addresses a large gathering.

8. True
9. False

Give single term for the following by choosing the correct options given below:

10. The ability to face uncertain situations in the business - Risk-taking
11. Satisfying the needs of the present without compromising the capacity of future generations, guaranteeing the balance between economic growth and environment - Sustainable Development

Answer the following questions in *one* sentence each:

12. In computer programming, object is a self-contained unit that combines both data and behavior into a single entity.
13. Collision detection is the process of checking when two game objects touch or interact.

Answer the following questions in *two to four* sentences each:

14. Encapsulation hides internal data like health or position, allowing only controlled access through methods. This prevents accidental changes and keeps the game logic clean and reliable.
15. Collision detection ensures that objects behave realistically by preventing them from

passing through each other. It defines the boundaries of the game world and creates challenges like avoiding enemies or collecting coins. Without it, games would feel broken and meaningless.

Choose the correct alternative from the given options and rewrite the complete sentence.

16. In object-oriented-programming, objects interact mainly by **Sending messages**
17. The feature that makes games different from movies is **Interactivity through events**
18. Exporting the game means **Making the game playable on multiple devices**
19. A player presses the SPACE key and the character jumps. This is a **Player-triggered event**

Answer the following questions in *one* sentence each: (1 mark each)

20. An endless runner game is a game with no fixed endpoint.
21. Objects contain data as state as well as behaviour that defines what they can do.

Answer the following questions in *two to four* sentences each: (2 marks each)

22. Challenges like spikes, pits, or enemies make players think carefully and react quickly. They add tension and excitement, making success more rewarding. Without hazards, games would feel too easy and boring.

23. External events are actions that come from outside the game and cause something to happen it, for example on pressing a keyboard key, clicking the mouse, touching the screen. External events help make games interactive and responsive to the player's actions.

Match the following items in Column A with correct items in Column B and write the correct pair: (1/2 mark each)

24. Defines a contract of functions
25. Playable area of the game

Compare the Co-relation in first pair and complete the second pair (1/2 mark each)

26. Click to shoot : Mouse event.
27. Player chooses the order of levels : Branching Levels

Choose the correct alternative from the given options and rewrite the complete sentence. (1/2 mark each)

28. In a catching game, sound for missing an apple should be **Neutral but disappointing**
29. While exporting a game for mobile devices, the important aspect that should be optimized to ensure the game displays correctly on different mobile screens is **Screen resolution**

Answer the following questions in *one* sentence each: (1 mark each)

30. The game can play a short success sound, such as a cheerful chime or victory tone, when the player earns the bonus point. A slightly louder or more energetic sound can be used for a major achievement.

31. The designer could slow down enemy speed, add more checkpoints, or introduce new hazards in safer, low-risk areas first. This ensures the player learns mechanics gradually and the challenge feels fair.

32. OOP allows the game to be divided into objects, such as players, enemies, vehicles, and obstacles. These objects can be reused and their properties or behaviours can be modified without rewriting the entire program. Thus, OOP reduces coding effort and makes it easier to upgrade the game from 2D to 3D.

Answer the following question in *two to four* sentences each: (2 marks)

33. The problem is related to collision detection. Collision detection should be implemented to detect when the player touches a wall and prevent the character from moving through it.

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2027

Seat No. | | | | | |

Time: 1½ Hours

Game Developer Trainee

Subject Code

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Total No. of Questions: 33 **(Printed Pages : 5)** **Maximum Marks : 30**

INSTRUCTIONS:
i) All questions are compulsory.
ii) Write the question numbers clearly.
iii) Figures to the right indicate full marks.
iv) Each question, including multiple-choice questions shall be answered only once. Multiple responses to the same question, whether on the same or different pages of the answer book, shall render the response invalid and no marks shall be awarded.

Choose the correct alternative from the given options and rewrite the complete sentence.

1. The ability that makes you complete work or studies without others cheering you is termed as _____. (1/2)
   - Self-confidence
   - Communication
   - Self-motivation
   - Self-esteem

2. One of the essential quality of time management is _____. (1/2)
   - Indiscipline
   - Punctuality
   - Laziness
   - Ignoring schedules

3. A strong password should consist of _____. (1/2)
   - Only letters
   - Numbers and special characters
   - Name of a person
   - Letters, numbers and special characters

4. The organisation has made the Sustainable Development Goals is_____. (1/2)
   - United Nations
   - League of Nations
   - UNICEF
   - World Health Organisation

Answer the following questions in *one* sentence each:

5. How can you increase the performance of a computer? (1)

6. Anita feel nervous before giving a speech in class. (1)
Which self-management techniques will help her in giving better performance?

Answer the following questions in *two to four* sentences each:

7. Describe different types of verbal communication. (2)

Answer whether the following statements are True or False:

8. Raj sees a problem in the village about availability of saloon and develops a service to solve it. This can be considered entrepreneurial behaviour. (1/2)

9. A student uses a simple password such as **123456** for an important online account because it is easy to remember. This is a good cybersecurity practice. (1/2)

Give single term for the following by choosing the correct options given below:

10. The ability to face uncertain situations in the business (1/2)
- Marketing
- Innovation
- Entrepreneurship
- Risk-taking

11. Satisfying the needs of the present without compromising the capacity of future generations, guaranteeing the balance between economic growth and environment. (1/2)
- Overuse
- Consumerism
- Sustainable Development
- Pollution

Answer the following questions in *one* sentence each:

12. What is an 'Object' in programming language? (1)

13. What is 'collision detection' in game design? (1)

Answer the following questions in *two to four* sentences each:

14. How does encapsulation help when building a 2D game? (2)

15. Why is collision detection considered one of the "rules of physics" in games? (2)

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Choose the correct alternative from the given options and rewrite the complete sentence.

16. In object-oriented-programming, objects interact mainly by_____ (1/2)
- Sharing Variables
- Sending messages
- Copying data
- Using global functions

17. The feature that makes games different from movies is _____ (1/2)
- Graphics
- Interactivity through events
- Music
- Storylines

18. Exporting the game means _____. (1/2)
- Storing game in files only
- Printing code
- Testing graphics only
- Making the game playable on multiple devices

19. A player presses the SPACE key and the character jumps. This is a _____ (1/2)
- Player-triggered event
- Game- triggered event
- Collision free event
- Sprite-sheet event

Answer the following questions in *one* sentence each:

20. What is an endless runner game? (1)

21. Why are objects not just data? (1)

Answer the following questions in *two to four* sentences each:

22. How can challenge improve player engagement in games? (2)

23. What are the external events in computer game design? Explain their role. (2)

Match the following items in Column A with correct items in Column B and write the correct pair:

	Column A	Column B	
24.	Trait	(i) Playable area of the game	(1/2)
25.	Level	(ii) Hiding unnecessary details	(1/2)
		(iii) Defines a contract of functions	
		(iv) Desktop	

Compare the Co-relation in first pair and complete the second pair

26. Player hits an obstacle: Collision event :: Click to shoot : _____ (1/2)

27. Play one after another in a fixed order: Linear Level ::

Player chooses the order of levels: _____ (1/2)

Choose the correct alternative from the given options and rewrite the complete sentence.

28. In a catching game, sound for missing an apple should be _____ (1/2)
- Rewarding
- Neutral but disappointing
- Background music
- None

29. While exporting a game for mobile devices, the important aspect that should be optimized to ensure the game displays correctly on different mobile screens is _____ (1/2)
- Screen resolution
- Pen thickness
- Mouse control
- Keyboard mapping

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Answer the following questions in *one* sentence each:

30. During a racing game, the player successfully crosses a difficult obstacle and earns a bonus point. How can the game designer use sound to make this achievement feel more rewarding and exciting? (1)

31. A player complains that the platform game feels "unfair" because they keep losing lives too quickly. What design changes could fix this? (1)

32. Mr. Parth has created a 2D game and now wants to make it a 3D game. How can Object-Oriented Programming (OOP) make this change easier? (1)

Answer the following question in *two to four* sentences each:

33. While testing a 2D game, you notice that the player character can walk through walls instead of being stopped by them. Which game development concept is not properly implemented. How would you solve this problem? (2)

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