Sub. Code

82813

## **B.Sc. DEGREE EXAMINATION, APRIL 2025**

# First Semester

## Game Art and Design

### FUNDAMENTALS OF GAME ART

### (2023 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 1 = 10)$ 

## Answer all questions.

- 1. What is the term used to describe strokes that are drawn quickly and freely, without constraint?
  - (a) Darts
- (b) Hatching
- (c) Free strokes
- (d) Surface limits
- 2. In perspective drawing, which term refers to the imaginary line representing the viewer's eye level?
  - (a) Horizon line
  - (b) Station point
  - (c) Picture plane
  - (d) Vanishing point

4.	Whatheon		of cr	reating a grayscale in color		
	(a)	To depict primary colors accurately				
	(b)	To simplify comple	ex col	lor schemes		
	(c)	To explore differen	nt col	or combinations		
	(d)	To understand to darkness	he v	ariations in brightness and		
5.		ch ancient civilizat paintings in Ajanta		s renowned for its elaborate l Ellora?		
	(a)	Ancient Greece	(b)	Mesopotamia		
	(c)	Indus Valley	(d)	Ancient India		
6.		erspective drawing ves the use of mult		tich type of perspective view vanishing points?		
	(a)	One-point perspec	tive			
	(b)	Two-point perspec	tive			
	(c)	Aerial perspective				
	(d)	Linear perspective	9			
7.	Wha	t term describes th	e inte	ensity or purity of a color?		
	(a)	Hue	(b)	Value		
	(c)	Saturation	(d)	Tertiary color		
			2	C-4614		

Which of the following is a primary component of figure drawing basics?

Proportion and gesture

Color mixing techniques

Hue and saturation

Value and contrast

3.

(a)

(b) (c)

(d)

	(a)	Renaissance	(b)	Neoclassicism
	(c)	Expressionism	(d)	Rococo
10.		ets or figures as		rawing involves representing ney were receding into the
	(a)	Foreshortening		
	(b)	Quick sketches		
	(c)	Cylindrical forms		
	(d)	Overlapping balan	ce	
		Par	t B	$(5 \times 5 = 25)$
	Ar	nswer <b>all</b> questions,	, cho	osing either (a) or (b).
11.	(a)		_	free strokes in art and how ting dynamic compositions.
			Or	
	(b)	_		f shading and lighting in art in creating depth and
			3	C-4614

Which term refers to the brightness or darkness of a

(b) Value

Which art movement emphasized emotion and personal

Intensity

(d)

expression over objective representation?

8.

9.

color?

Hue

Saturation

(a)

(c)

12. (a) Discuss the differences between linear perspectives and aerial perspectives, providing examples of each.

Or

- (b) Explain the construction methods of one-point, two-point, and three-point perspective views in art.
- 13. (a) Analyze the importance of proportion and gesture in figure drawing, providing examples to support your explanation.

Or

- (b) Describe the technique of foreshortening in figure drawing and its effect on creating realistic representations.
- 14. (a) Define the RGB mode in color theory and discuss its practical applications in art.

Or

- (b) Explain the concept of value in color theory and its role in creating contrast and depth in artworks.
- 15. (a) Trace the development of art from the Paleolithic age to contemporary art movements, highlighting significant artistic styles and periods.

Or

(b) Analyze the artistic techniques used in prehistoric cave paintings and their cultural significance.

C-4614

Answer all questions, choosing either (a) or (b).

16. (a) Explain the concept of free strokes in art and how they contribute to creating dynamic compositions.

Or

- (b) Describe the process of shading and lighting in art and its significance in creating depth and atmosphere.
- 17. (a) Discuss the differences between linear perspectives and aerial perspectives, providing examples of each.

Or

- (b) Explain the construction methods of one-point, two-point, and three-point perspective views in art.
- 18. (a) Analyze the importance of proportion and gesture in figure drawing, providing examples to support your explanation.

Or

- (b) Describe the technique of foreshortening in figure drawing and its effect on creating realistic representations.
- 19. (a) Define the RGB mode in color theory and discuss its practical applications in art.

Or

(b) Explain the concept of value in color theory and its role in creating contrast and depth in artworks.

C-4614

20. (a) Trace the development of art from the Paleolithic age to contemporary art movements, highlighting significant artistic styles and periods.

Or

(b) Analyze the artistic techniques used in prehistoric cave paintings and their cultural significance.

Sub. Code 82815/82915

### **B.Sc. DEGREE EXAMINATION, APRIL 2025**

### First Semester

#### Game Art and Design

## INTRODUCTION TO VISUAL COMMUNICATION

(Common for B.Sc. Game Art and Design, Visual Effects)
(2023 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 1 = 10)$ 

Answer all questions.

- 1. Which of the following best describes the concept of universal understanding in visual communication?
  - (a) Communicating messages that are universally accepted across cultures
  - (b) Ensuring clarity and comprehension of visual messages for all audiences
  - (c) Conveying emotions effectively through visual elements
  - (d) Overcoming barriers of communication through visual aids
- 2. What are the two main types of communication discussed?
  - (a) Technical and pragmatic
  - (b) Verbal and non-verbal
  - (c) Universal and specific
  - (d) Emotional and rational

	(b)	Schramm's circular model
	(c)	Two-step flow theory
	(d)	Hypodermic needle model
4.		visual communication, what do the levels of nunication-technical, schematic, and pragmatic- to?
	(a)	Different stages of message development
	(b)	Various methods of audience engagement
	(c)	Levels of complexity in visual design
	(d)	Types of visual aids used in communication
5.		t is the primary focus of semiotics in visual nunication?
	(a)	Analyzing color psychology
	(b)	Understanding sign and symbol interpretation
	(c)	Exploring narrative representation
	(d)	Implementing design execution techniques
6.		ch aspect of semiotics deals with the relationship een signs and their meanings?
	(a)	Denotations (b) Connotations
	(c)	Paradigmatic (d) Syntagmatic
		2 <b>C-4615</b>

According to the communication model emphasizing the

sender-message-channel-receiver framework

Lasswell model

3.

(a)

7.	Wha	at is the main objective of strategic communication?
	(a)	Shaping public opinion
	(b)	Enhancing media ethics
	(c)	Promoting cross-cultural communication
	(d)	Understanding communication theories

- 8. How does cross-cultural communication influence public opinion formation?
  - (a) It fosters global perspectives on policy issues
  - (b) It emphasizes media effects on cultural values
  - (c) It promotes ethical communication practices
  - (d) It shapes attitudes and behaviors across diverse societies
- 9. According to which theory suggests that media messages have a direct and powerful influence on audiences?
  - (a) Hypodermic needle model
  - (b) Two-step flow theory
  - (c) Uses and gratification model
  - (d) Gatekeeper theory
- 10. What aspect of mass media communication is discussed in relation to media and advertising?
  - (a) Media systems
  - (b) Media effects
  - (c) Media culture
  - (d) Media business management

C-4615

Part B  $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Discuss about the enhanced communication skills.

Or

- (b) Analyze the whites gate keeper theory.
- 12. (a) Discuss about the Schramm's circular model.

Or

- (b) Explain the Lasswell model in detail, emphasizing its application and relevance in visual communication strategies.
- 13. (a) Discuss the significance of narrative representation in the semiotic landscape of language.

Or

- (b) Explore the role of color psychology in visual communication.
- 14. (a) Assess the impact of strategic communication on the formation of public opinion.

Or

- (b) Evaluate the ethical considerations involved in media communication practices.
- 15. (a) Analyze influence of mass media on audience behavior and perceptions.

Or

(b) Discuss about the understanding media systems for mass media communication.

C-4615

Answer all questions, choosing either (a) or (b).

16. (a) Explain the concept of enhancing retention.

Or

- (b) Discuss the significance of non-verbal communication in conveying emotions and its impact on audience engagement.
- 17. (a) Compare and contrast two communication models, highlighting their key features and applications in visual communication.

Or

- (b) Explain the significance of the SMCR model in understanding the process of communication, citing relevant examples.
- 18. (a) Discuss about the lateral thinking.

Or

- (b) Discuss the role of thematic-visual thinking in communication.
- 19. (a) Analyze the impact of strategic communication on public opinion formation. Consider its role in shaping attitudes and behaviors.

Or

(b) Evaluate the importance of media ethics in maintaining credibility and trust in communication processes, with reference to cross-cultural perspectives.

C-4615

20. (a) Discuss the hypodermic needle model.

Or

(b) Explain the uses and gratification model in the context of mass media communication, highlighting its implications for media consumption patterns and audience engagement.

Sub. Code

82823

## **B.Sc. DEGREE EXAMINATION, APRIL 2025**

### **Second Semester**

## Game Art and Design

### **DESIGN STUDY**

### (2023 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 1 = 10)$ 

Answer all questions.

- 1. ———— is the primary purpose of design in human life.
  - (a) To create aesthetically pleasing objects
  - (b) To solve problems and improve functionality
  - (c) To replicate natural forms
  - (d) To limit creativity
- 2. is a characteristic of a designer's mind.
  - (a) Rigid thinking
  - (b) Focus on cost-cutting
  - (c) Innovative and experimental approach
  - (d) Preference for traditional solutions

3.		principle of design involves the relationship
	betw	reen elements in terms of size and quantity.
	(a)	Balance
	(b)	Proportion and Scale
	(c)	Contrast
	(d)	Emphasis
4.	Patt	ern and repetition in design primarily serve to
	(a)	Create chaos
	(b)	Ensure balance
	(c)	Establish rhythm
	(d)	Increase cost
5.	The	Color Wheel helps us understand ————
	(a)	Typeface classifications
	(b)	Color harmonies and relationships
	(c)	Pattern repetition
	(d)	Digital image formats
6.	In ty	rpography, 'leading' refers to ————
	(a)	The spacing between letters
	(b)	The thickness of lines in a font
	(c)	The vertical spacing between lines of text
	(d)	The horizontal alignment of text
		2 <b>C-4616</b>

7.	Vecto	or graphics are composed of ————
	(a)	Pixels
	(b)	Paths defined by points, curves, and angles
	(c)	Bitmaps
	(d)	Noise
8.	Grid	systems in design are used to ———
	(a)	Add color to the design
	(b)	Organize and structure content
	(c)	Enhance image quality
	(d)	Create randomness in layout
9.	Colo	rs opposite each other on the color wheel are called
	(a)	Analogous colors
	(b)	Complementary colors
	(c)	Monochromatic colors
	(d)	Triadic colors
10.	Grid	consistency in design ensures ———
	(a)	Visual chaos
	(b)	Alignment and harmony
	(c)	Random element placement
	(d)	Minimal white space
		3 <b>C–4616</b>

Part B  $(5 \times 5 = 25)$ 

Answer all questions choosing either (a) or (b)

11. (a) Explain the significance of understanding design principles in creating effective solutions

Or

- (b) Discuss the differences between creative and stereotype solutions in design.
- 12. (a) How does the use of proportion and scale influence a design? Provide an example.

Or

- (b) Describe the importance of pattern and repetition in creating visual interest.
- 13. (a) What are color harmonies and why are they important in design?

Or

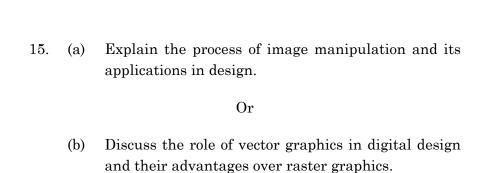
- (b) Explain the concept of color temperature and its effect on mood in a design.
- 14. (a) Describe the anatomy of a typeface and explain its significance in typography.

Or

4

(b) What are the key considerations when selecting appropriate fonts for a project?

C-4616



Answer all questions choosing either (a) or (b).

16. (a) Discuss the impact of design principles on the functionality and aesthetics of everyday objects.

Or

- (b) Evaluate the role of the target audience in shaping the design process and outcomes.
- 17. (a) Analyze the relationship between creative expression and contextual application in design.

Or

- (b) Explore the importance of proportion and scale in architectural design.
- 18. (a) Describe the practical applications of color theory in branding and marketing. Include examples of successful brands.

Or

(b) Examine the psychological effects of color in interior design. How can color choices influence the mood of a space?

C-4616

19. (a) Trace the history of typography and its evolution over the centuries. How has it influenced modern graphic design?

Or

- (b) Discuss the importance of grid systems in editorial design. How do they contribute to the readability and aesthetic of printed materials?
- 20. (a) Explain the concept of the golden mean and its application in design.

Or

(b) Discuss the stages of the design process and the importance of each stage in achieving a successful design outcome.

(d)

Sub. Code 82825

# **B.Sc. DEGREE EXAMINATION, APRIL 2025.**

### Second Semester

# Game Art and Design

## CRITICAL STUDIES FOR GAMES

## (2023 onwards)

		,	
Dur	ation	: 3 Hours	Maximum : 75 Marks
		Part A	$(10 \times 1 = 10)$
		Answer all question	ns.
1.		the rise of home comp	uter video games.
	(a)	Mainframe grams	
	(b)	Arcade games	
	(c)	Bank vector games	
	(d)	Electronic arts	
2.	——indu	was a significant facustry crash.	tor in the video game
	(a)	The rise of arcade games	
	(b)	A new generation of home vid	leo game systems
	(c)	Overproduction of games	
	(d)	The influence-of interactive n	novies

	handheld video game system became popular
in th	ne 1990s.
(a)	Atari
(b)	Game Boy
(c)	Sega Genesis
(d)	Sony PlayStation
Who Raid	is a well-known character from the game "Tomb ler"?
(a)	Pac-Man (b) Lara Croft
(c)	Mario (d) Sonic
——gam	is a common feature of first-person shooting es.
(a)	Side-scrolling
(b)	Third-person perspective
(c)	First-person perspective
(d)	Overhead view
and	is known for its groundbreaking graphics immersive sound.
(a)	Tetris (b) Doom
(c)	Zork (d) Castle Wolfenstein
	is a major moral and ethical controversy in ogames.
(a)	Game genres
(b)	Video game ratings
(c)	Graphics in video games
(d)	Violence and content in games
	2 <b>C-4617</b>

8.		is a significant factor in selling ideas to the ne industry.	
	(a)	Game market	
	(b)	Hidden agenda	
	(c)	Designer accountability	
	(d)	·	
9.	vide	is an example of intellectual property in eo games.	
	(a)	Game mechanics	
	(b)	Character design	
	(c)	Level design	
	(d)	All of the above	
10.	vide	is a crucial element in targeting a market for a eo game.	
	(a)	Game genre	
	(b)	Graphics quality	
	(c)	Focus groups	
	(d)	Sound design	
		Part B $(5 \times 5 = 25)$	
	A	answer <b>all</b> questions, choosing either (a) or (b).	
11.	(a)	Explain the influence of early video game systems on modern gaming technology.	
		Or	
	(b)	Discuss the significance of mainframe games and simulations in the history of video games.	
		3 <b>C-4617</b>	

12. (a) Describe the impact of handheld video game systems on the gaming industry in the 1990s.

Or

- (b) Compare and contrast the popularity of arcade games in the 1990s with modern video game consoles.
- 13. (a) Analyze the role of graphics and sound in the development of video game genres.

Or

- (b) Discuss the ethical implications of video game content and the importance of rating systems.
- 14. (a) Evaluate the pros and cons of the impact of video games on players.

Or

- (b) Explain the significance of target audience analysis in game development.
- 15. (a) Discuss the importance of intellectual property in the video game industry and how it affects game development.

Or

(b) Analyze the process of creating sequels in video games and the factors that contribute to their success.

C-4617

Answer all questions, choosing either (a) or (b).

16. (a) Discuss the evolution of video games from mainframe grams to modern home video game systems.

Or

- (b) Analyze the role of interactive movies in the evolution of video games. How have they influenced game design and player experience?
- 17. (a) Evaluate the impact of Sony Play Station on the video game industry. Discuss how it changed the landscape of gaming and its lasting legacy.

Or

- (b) Compare and contrast the development and impact of video games in Europe, Asia, and Australia.
- 18. (a) Discuss the controversies surrounding video games as objects of moral and ethical debate.

Or

- (b) Analyze the relationship between video games and other media.
- 19. (a) Examine the business aspects of game publishing and the process of selling ideas to the industry.

Or

(b) Evaluate the impact of games on players, including both positive and negative aspects.

C-4617

20. (a) Discuss the importance of intellectual property in the video game industry.

Or

(b) Analyze the process of creating sequels in the video game industry.

Sub. Code

82833

## **B.Sc. DEGREE EXAMINATION, APRIL 2025**

# Third Semester

## Game art and Design

### **GAME PRODUCTION**

## (2023 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 1 = 10)$ 

Answer all questions.

- 1. \_\_\_\_\_ is a key element in successfully pitching your original game idea
  - (a) Detailed market analysis
  - (b) High production costs
  - (c) Complex storylines
  - (d) Minimal team collaboration
- 2. ———— is primarily responsible for the game's narrative and character development
  - (a) Game Programmer
  - (b) Game Designer
  - (c) Game Tester
  - (d) Game Producer

(a) Hierarchical (b) Linear (c) Circular (d) Matrix  In a developer's team, ————————————————————————————————————	deve	is the typical structure of a game
(c) Circular (d) Matrix  In a developer's team, ————————————————————————————————————		
In a developer's team, ————————————————————————————————————	` ′	
(b) Art Director (c) Lead Programmer (d) Quality Assurance Tester  ———————————————————————————————————	In a	developer's team, ————————————————————————————————————
(c) Lead Programmer (d) Quality Assurance Tester  ———————————————————————————————————	(a)	Game Designer
involves recognizing patterns and sequences  (a) Logic (b) Riddles (c) Spatial Reasoning (d) Pattern Recognition  is a common characteristic of a well-designed puzzle (a) Unsolvable complexity (b) Predictable outcomes (c) Clear rules and objectives (d) Random elements  is a three-act play structure in interactive storytelling (a) Introduction, Conflict, Resolution (b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution	(b)	Art Director
involves recognizing patterns and sequences  (a) Logic (b) Riddles (c) Spatial Reasoning (d) Pattern Recognition  is a common characteristic of a well-designed puzzle (a) Unsolvable complexity (b) Predictable outcomes (c) Clear rules and objectives (d) Random elements  is a three-act play structure in interactive storytelling (a) Introduction, Conflict, Resolution (b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution	(c)	Lead Programmer
(a) Logic (b) Riddles (c) Spatial Reasoning (d) Pattern Recognition  ———————————————————————————————————	(d)	Quality Assurance Tester
(b) Riddles (c) Spatial Reasoning (d) Pattern Recognition  ———————————————————————————————————		involves recognizing patterns and sequences
(c) Spatial Reasoning (d) Pattern Recognition  ———————————————————————————————————	(a)	Logic
is a common characteristic of a well-designed puzzle  (a) Unsolvable complexity (b) Predictable outcomes (c) Clear rules and objectives (d) Random elements  is a three-act play structure in interactive storytelling (a) Introduction, Conflict, Resolution (b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution	(b)	Riddles
is a common characteristic of a well-designer puzzle  (a) Unsolvable complexity (b) Predictable outcomes (c) Clear rules and objectives (d) Random elements  is a three-act play structure in interactive storytelling  (a) Introduction, Conflict, Resolution (b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution	(c)	Spatial Reasoning
puzzle  (a) Unsolvable complexity  (b) Predictable outcomes  (c) Clear rules and objectives  (d) Random elements  is a three-act play structure in interactive storytelling  (a) Introduction, Conflict, Resolution  (b) Beginning, Middle, End  (c) Start, Development, Finish  (d) Setup, Confrontation, Resolution	(d)	Pattern Recognition
(a) Unsolvable complexity (b) Predictable outcomes (c) Clear rules and objectives (d) Random elements  is a three-act play structure in interactive storytelling (a) Introduction, Conflict, Resolution (b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution		is a common characteristic of a well-designed
(b) Predictable outcomes (c) Clear rules and objectives (d) Random elements  is a three-act play structure in interactive storytelling (a) Introduction, Conflict, Resolution (b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution	puz	zle
(c) Clear rules and objectives (d) Random elements  is a three-act play structure in interactive storytelling (a) Introduction, Conflict, Resolution (b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution	(a)	Unsolvable complexity
is a three-act play structure in interactive storytelling  (a) Introduction, Conflict, Resolution  (b) Beginning, Middle, End  (c) Start, Development, Finish  (d) Setup, Confrontation, Resolution	(b)	Predictable outcomes
is a three-act play structure in interactive storytelling  (a) Introduction, Conflict, Resolution  (b) Beginning, Middle, End  (c) Start, Development, Finish  (d) Setup, Confrontation, Resolution	(c)	Clear rules and objectives
storytelling  (a) Introduction, Conflict, Resolution  (b) Beginning, Middle, End  (c) Start, Development, Finish  (d) Setup, Confrontation, Resolution	(d)	Random elements
(b) Beginning, Middle, End (c) Start, Development, Finish (d) Setup, Confrontation, Resolution		is a three-act play structure in interactive ytelling
(c) Start, Development, Finish (d) Setup, Confrontation, Resolution	(a)	Introduction, Conflict, Resolution
(d) Setup, Confrontation, Resolution	(b)	Beginning, Middle, End
C 4010	(c)	Start, Development, Finish
2 <b>C-4618</b>	(d)	Setup, Confrontation, Resolution
		2 <b>C-4618</b>

	(a)	Linear stories			
	(b)	Decision trees			
	(c)	Parallel stories			
	(d)	Expository stories			
9.			designe	ed to educate players on	
	_	rticular subject			
	(a)	Casual Game			
	(b)	Social Game			
	(c)	Serious Game			
	(d)	Art Game			
10.		at milestone marks the ame development?	end of r	major feature additions	
	(a)	Alpha (b)	Beta		
	(c)	Gold (d)	Post-	-release	
		Part B	}	$(5 \times 5 = 25)$	
	A	nswer <b>all</b> questions, ch	oosing e	either (a) or (b).	
11.	(a)	Explain the signification ideas to the game ind		pitching your original	
		O	r		
	(b)	Discuss the variou choices available to n	_	_	
		3		C-4618	

involves player decisions that lead to

8.

different outcomes

12. (a) Describe the typical team structure in game development and the role of communication within the team.

Or

- (b) Analyze the differences between a developer's team and a publisher's team.
- 13. (a) Discuss the constraints that influence game design and how they impact puzzle creation.

Or

- (b) Explain the characteristics of an effective level design in relation to puzzle integration.
- 14. (a) Compare and contrast traditional stories and interactive stories in game design.

Or

- (b) Discuss the role of decision trees in creating engaging interactive narratives.
- 15. (a) Evaluate the importance of marketing, packaging, and releasing in the success of a game.

Or

(b) Discuss the concept of serious games and their application as teaching tools.

C-4618

Answer all questions, choosing either (a) or (b).

16. (a) Discuss the impact of a well-crafted pitch on getting a job at a game publisher or developer.

Or

- (b) Analyze the role definitions for game designers and how these roles contribute to the overall success of a game project.
- 17. (a) Examine the process of applying for a job in game design and the essential skills required for success.

Or

- (b) Evaluate the importance of team building and team communication from a designer's perspective in game development.
- 18. (a) Explore the various types of puzzles used in games and how they cater to different player skills and preferences.

Or

- (b) Discuss the role of exploration and item use in level design and how they enhance the player's experience.
- 19. (a) Analyze the depth of storytelling in games and its impact on player engagement and immersion.

Or

(b) Evaluate the importance of moral and immoral choices in interactive storytelling and their effects on the player's experience.

C-4618

20. (a) Discuss the role of games as a form of art and how they reflect cultural and artistic expression.

Or

(b) Examine the planning and execution required to achieve organic hits in the game industry.

Sub. Code

82834

## **B.Sc. DEGREE EXAMINATION, APRIL 2025**

## Third Semester

## Game Art and Design

### DESIGN AND COMMUNICATION FOR GAME DESIGN

(2023 onwards)

Duration: 3 Hours Maximum: 75 Marks Part A  $(10 \times 1 = 10)$ Answer all questions. Importing 2D game assets into unity — file 1. format is commonly used for images. .obj (a) .jpg (d) (c) .mp4.wav 2. — is the primary purpose of the Sprite Editor in Unity.

- (a) To edit sound effects
- (b) To animate 3D models
- (c) To slice and edit sprite sheets
- (d) To create terrain

3.		most common location to display the player's health score in a HUD is
	(a)	Bottom-left corner
	(b)	Top-right corner
	(c)	Bottom-right corner
	(d)	Top-left corner
4.	The	example of a non-traditional game control is
	(a)	Keyboard and mouse
	(b)	Gamepad
	(c)	Touchscreen
	(d)	Joystick
5.	The	primary purpose of lighting and shading in 2D art is
	(a)	To add colors to the character
	(b)	To outline the character
	(c)	To create depth and dimension
	(d)	To simplify the design process
6.		principle of animation focuses on the visual appeal of
	(a)	Quash and Stretch
	(b)	Staging
	(c)	Timing
	(d)	Appeal
		2 <b>C-4619</b>

<ul><li>(a)</li><li>(b)</li><li>(c)</li></ul>	Sound quality Sound file format
` '	Sound file format
(c)	
	How the sound supports game play and player experience
(d)	Sound length
In ga	ame development, what is a "trigger".
(a)	A graphical element in the game
(b)	An event that occurs when a specific condition is met
(c)	A sound effect that plays at random intervals
(d)	A character's movement speed
	———— is an important consideration when
(a)	Game asset texture
(b)	Background music tempo
(c)	Character animations
(d)	Target platform and resolution settings
	———— is a key step when publishing game assets.
(a)	Compressing and organizing assets for efficient use
(b)	Increasing asset file sizes
(c)	Disabling asset usage tracking
(d)	Ignoring platform-specific requirements
	3 C-4619

Part B  $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Describe the difference between vector and raster graphics in 2D game art.

Or

- (b) Describe the steps to import a 2D game asset into a game engine.
- 12. (a) Explain the purpose of a HUD (Heads-UP Display) in a game.

Or

- (b) Outline the importance of intuitive game controls.
- 13. (a) Describe the role of lighting in enhancing the visual depth of 2D characters.

Or

- (b) Define the principle of "appeal" in animation and explain how it contributes to character design.
- 14. (a) Explain how game engines facilitate the prototyping process.

Or

- (b) Describe the importance of events and actions in a game prototype.
- 15. (a) Explain how do reverb zones enhance the realism of game audio.

Or

(b) Outline the key considerations when publishing game assets.

4

C-4619

Answer all questions, choosing either (a) or (b).

16. (a) Describe the process and best practices for importing and managing 2D game assets in a game engine.

Or

- (b) Analyze the function of a sprite editor in a game engine.
- 17. (a) Analyze the significance of screen location for presenting information in games.

Or

- (b) Identify common problems with game controls, such as input lag and inconsistent control schemes.
- 18. (a) Describe the concept of persistence of vision and its application in early animation devices like the thaumatrope.

Or

- (b) Discuss the function and significance of particle systems in game development.
- 19. (a) Discuss the importance of prototyping in game development.

Or

(b) Analyze the importance of tiles and spaces in level design for game prototypes.

C-4619

20. (a) Explain the importance of sound scripting in game development.

Or

(b) Outline the key strategies for optimizing game performance.

# **B.Sc. DEGREE EXAMINATION, APRIL 2025**

## **Third Semester**

# Game Art and Design

## 3D DIGITAL ART FOR GAMES

(2023 onwards)

Duration : 3 Hours			Maximum : 75 Marks		
		Par	rt A		$(10 \times 1 = 10)$
		Answer	<b>all</b> qu	uestions.	
1.	in M	is the first	stag	e of the 3D mod	deling process
	(a)	Detailing	(b)	Blocking	
	(c)	Texturing	(d)	Shaping	
2.	The common automated tool in Maya that can help s up the modeling process is ———.		an help speed		
	(a)	UV Mapping Edit	or		
	(b)	Boolean Operation	ns		
	(c)	Sculpt Geometry 7	Γool		

(d) Paint Effects

envi	———— static meshes commonly used for in game ronment modeling.			
(a)	Unchanging objects like buildings, trees and props			
(b)	Characters and animated objects			
(c)	Background music			
(d)	User interface elements			
—— anin	modeling technique is crucial for creating nated meshes.			
(a)	NURBS modeling			
(b) Subdivision surface modeling				
(c)	Boolean operations			
(d)	Texture painting			
The	good topology important in vehicle modeling is			
(a)	To increase the file size			
(b)	To simplify the unwrapping process			
(c)	To add more colors to the vehicle			
(d)	To ensure smooth deformation and efficient rendering			
	purpose of assigning basic color maps in vehicle eling is————			
(a)	To animate the vehicle			
(b)	To provide a basic visual representation of the vehicle's colors			
(c)	To rig the vehicle			
(d)	To increase polygon count			

7.	The	purpose of Hyper shade in Maya is ————
	(a)	To model 3D objects
	(b)	To create and edit shaders and materials
	(c)	To animate characters
	(d)	To render scenes
	The	advantage of creating handmade texture effects is
	(a)	Lower file size
	(b)	Increased rendering speed
	(c)	Unique and stylized appearances
	(d)	Automatic lighting adjustments
	In	Unity, the purpose of the Hierarchy panel is
	(a)	To edit shaders and materials
	(a) (b)	To edit shaders and materials  To display and organize all the game objects in the current scene
	. ,	To display and organize all the game objects in the
	(b)	To display and organize all the game objects in the current scene
).	<ul><li>(b)</li><li>(c)</li><li>(d)</li><li>The</li></ul>	To display and organize all the game objects in the current scene  To adjust the project's audio settings
).	<ul><li>(b)</li><li>(c)</li><li>(d)</li><li>The</li></ul>	To display and organize all the game objects in the current scene  To adjust the project's audio settings  To render the game scene  understanding size and scale important in 3D game
).	(b) (c) (d) The desi	To display and organize all the game objects in the current scene  To adjust the project's audio settings  To render the game scene  understanding size and scale important in 3D game gn is
).	<ul><li>(b)</li><li>(c)</li><li>(d)</li><li>The desi</li><li>(a)</li></ul>	To display and organize all the game objects in the current scene  To adjust the project's audio settings  To render the game scene  understanding size and scale important in 3D game gn is  To maintain a proper proportion in the game world
0.	(b) (c) (d) The desi (a) (b)	To display and organize all the game objects in the current scene  To adjust the project's audio settings  To render the game scene  understanding size and scale important in 3D game gn is  To maintain a proper proportion in the game world  To create game menus

Part B  $(5 \times 5 = 25)$ 

Answer all questions choosing either (a) or (b).

11. (a) Describe how automated tools streamline the modeling process and what are their limitations.

Or

- (b) Explain the significance of uniform span flow in polygonal modeling.
- 12. (a) Discuss the importance of core modeling techniques.

Or

- (b) Explain normal maps, and how do they affect the appearance of one-sided objects in 3D modeling.
- 13. (a) Analyze considerations are important when texturing and applying materials to a vehicle model.

Or

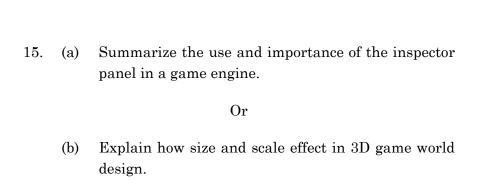
- (b) Explain the process of assigning basic color maps to a vehicle's body mesh.
- 14. (a) Discuss the texture pipeline in 3D modeling, and what are its main stages.

Or

(b) Outline the importance of generating essential maps like diffuse and bump in 3D texturing.

C-4620

4



**Part C**  $(5 \times 8 = 40)$ 

Answer all questions choosing either (a) or (b).

16. (a) Compare and contrast modeling requirements for animation versus game objects in Maya.

Or

- (b) Discuss advanced techniques in Maya used to achieve complex shapes in modeling.
- 17. (a) Describe the kit bashing in the context of game art, and how are static meshes used in this technique.

Or

- (b) Explain the concept of normal's in 3D modeling and their importance.
- 18. (a) Discuss the significance of correct proportions and layout in vehicle modeling for games.

Or

(b) Outline the key steps and considerations in unwrapping a vehicle model for texturing.

19. (a) Discuss the creation and application of handmade texture effects in 3D modeling.

Or

- (b) Describe shader development in Hyper Shade contribute to the realism of a 3D model.
- 20. (a) Compare the key differences in terms of development and gameplay experience in 2D and 3D game design.

Or

(b) Explain the function and significance of the project panel, hierarchy project and inspector panel in a game engine's interface.

## **B.Sc. DEGREE EXAMINATION, APRIL 2025**

#### **Fourth Semester**

## Game Art and Design

#### PROCEDURAL MODELING FOR GAMES

(2023 onwards)

Duration: 3 Hours Maximum: 75 Marks

Section A  $(10 \times 1 = 10)$ 

Answer all questions.

- 1. SideFx Houdini primarily known for in the realm of 3D modeling and animation is called as ————.
  - (a) 2D animation
  - (b) Procedural content creation
  - (c) Texturing
  - (d) Game physics simulation
- 2. Advantage of using proceduralism for adaptive content creation in games is ————.
  - (a) Limited customization options
  - (b) Increased development time
  - (c) Dynamic and responsive game play experiences
  - (d) Less interactive game play

	panel in Houdini's interface is primarily to create and manipulate 3D geometry.	
(a)	Scene View (b) Parameters Pane	
(c)	Network Editor (d) Render View	
The proje	recommended practice for organizing complex ects in Houdini is ————.	
(a)	Use a single node network for all elements	
(b)	Use multiple networks	
(c)	Save each node in separate files	
(d)	Avoid using labels and colors	
The first step in setting up a project for bridge generation in Houdini is ————.		
(a)	Creating terrain	
(b)	Animating the bridge	
(c)	Importing textures	
(d)	Setting up the project directory	
insta	Houdini node allows you to create multiple ances of bridge segments based on defined meters.	
(a)	Transform node	
(b)	Copy to Points node	
(c)	Poly Extrude node	
(d)	Merge node	
	2 C-4621	

des
des
des
commonly used to export
e in game engines.
.fbx
.jpeg
only used to import Houdini
od for optimizing procedural
nce.
esolution
ount
es
CO
of procedural parameters

The first step in converting a procedural bridge tool into a

7.

Answer all questions, choosing either (a) or (b).

11. (a) Describe the proceduralism in 3D modeling.

Or

- (b) Summarize the ways does proceduralism contribute to the flexibility and creativity of game designers.
- 12. (a) Describe the main components of the Houdini interface.

Or

- (b) Explain how the network editor and the parameter pane work together in Houdini.
- 13. (a) Describe the process of creating a procedural bridge-building tool in Houdini.

Or

- (b) Explain the importance of parameterization in procedural bridge generation.
- 14. (a) Discuss the concept of digital assets in Houdini.

Or

- (b) Describe the process of updating and versioning a Houdini digital asset.
- 15. (a) Explain how import Houdini digital assets into game engines like Unity or Unreal Engine.

Or

(b) Outline the techniques can be used to improve Houdini for real-time performance.

4

Answer **all** questions, choosing either (a) or (b).

16. (a) Discuss the concept of proceduralism in 3D modeling and how it contrasts with traditional modeling methods.

Or

- (b) Analyze the challenges and limitations of proceduralism in 3D modeling and game design.
- 17. (a) Compare and contrast parameter-driven modeling with traditional modeling methods.

Or

- (b) Discuss the integration of Houdini's procedural workflows with other 3D software and game engines.
- 18. (a) Outline the steps involved in setting up a project in Houdini for generating procedural bridges.

Or

- (b) Explain the methods and techniques used to test and adjust variations of procedurally generated bridges in Houdini.
- 19. (a) Describe the process of converting a procedural bridge-building tool into a digital asset in Houdini.

Or

(b) Describe the process of updating and versioning a Houdini digital asset.

C-4621

5

20. (a) Discuss the importance of optimizing procedural assets from Houdini for real-time performance in game engines.

Or

(b) Explain the workflow for implementing procedural assets from Houdini into game levels within a game engine.

82844

## **B.Sc. DEGREE EXAMINATION, APRIL 2025.**

#### **Fourth Semester**

## Game Art and Design

#### LEVEL DESIGN FOR GAME

#### (2023 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 1 = 10)$ 

Answer all questions..

- 1. In level design, what does "top view planning" help achieve?
  - (a) Improved texture quality
  - (b) Better navigation
  - (c) Enhanced sound effects
  - (d) Faster loading times
- 2. Which perspective is crucial for isometric art design?
  - (a) Linear perspective
  - (b) Aerial perspective
  - (c) Two-point perspective
  - (d) None of the above
- 3. What is a key tool used for sprite design in 2D level art?
  - (a) Blender
- (b) Photoshop
- (c) Maya
- (d) Illustrator

	(a)	Texture mapping	(b)	Pixel art	
	(c)	Grid layout	(d)	Dynamic lighting	
5.	In 3D multiplayer level design, what is the purpose of play testing?				
	(a)	To finalize the sto	ryline	9	
	(b)	To identify bugs as	nd is	sues	
	(c)	To improve color b	alan	ce	
	(d)	To reduce loading	time		
6.	Wha	t tool is introduced	for 3	D level design?	
	(a)	Hammer/Radiant	(b)	Unity	
	(c)	Unreal Engine	(d)	Sketch Up	
7.	Which concept is important in 3D single player level design?			t in 3D single player level	
	(a)	Grid mapping	(b)	Brush concepts	
	(c)	Sprite animation	(d)	Sound editing	
8.	Wha	t does the scale fac	tor in	fluence in 3D design?	
	(a)	Color contrast	(b)	Object size	
	(c)	Texture resolution	n (d)	Sound depth	
9.	Wha	t is a critical compo	nent	of sandbox terrain creation?	
	(a)	Shader mapping	(b)	Height map	
	(c)	Layer blending	(d)	Sound integration	
10.	In te	errain design, what	does	setting the time affect?	
	(a)	Texture quality	(b)	Lighting conditions	
	(c)	Object placement	(d)	Sound effects	
			2	C-4622	

Which is an essential aspect of 2D landscape painting?

4.

Part B

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Explain the process of level ideation and its importance in game design.

Or

- (b) Discuss the role of perspective in enhancing level design aesthetics.
- 12. (a) Describe the use of pixel ratios in sprite animation.

Or

- (b) Explain the differences between 2D and 3D level design principles.
- 13. (a) How does play testing improve 3D multiplayer level design?

Or

- (b) What are the core components to consider in 3D multiplayer design?
- 14. (a) Discuss the significance of texture and lighting in 3D single player design.

Or

- (b) Explain the process of adding static meshes in level mapping.
- 15. (a) Describe how terrain textures impact the realism in sandbox design.

Or

(b) Explain the method of integrating flora and vegetation in sandbox terrain.

3

**Part C**  $(5 \times 8 = 40)$ 

Answer all questions, choosing either (a) or (b).

16. (a) Discuss in detail the steps involved in creating a top-view level plan and its impact on gameplay.

Or

- (b) Analyze the role of camera and focal view in level design and how they influence player experience.
- 17. (a) Explain the process and techniques of designing sprites using Photoshop for a 2D platform game.

Or

- (b) Evaluate the principles of maze design and its influence on player engagement in 2D games.
- 18. (a) Analyze the importance of identifying core game components in 3D multiplayer design.

Or

- (b) Discuss the play testing phase and its importance in finalizing 3D game levels.
- 19. (a) Explore the concept of brush techniques and their application in creating detailed 3D single player levels.

Or

- (b) Explain how lighting and texture are utilized to enhance the atmosphere in 3D game design.
- 20. (a) Discuss the challenges and solutions in creating realistic sandbox terrain environments.

Or

(b) Evaluate the impact of atmospheric elements on player immersion in sandbox games.

C-4622

4

82846

## **B.Sc. DEGREE EXAMINATION, APRIL 2025**

#### **Fourth Semester**

## Game Art and Design

#### 3D CHARACTER DESIGN FOR GAME

## (2023 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 1 = 10)$ 

Answer all questions.

- 1. What is the primary goal of character topology?
  - (a) Texture enhancement
  - (b) Proper animation
  - (c) Efficient rendering
  - (d) Improved lighting
- 2. Which technique is used to create a character's face mesh?
  - (a) Extrusion (b) Retopology
  - (c) Sculpting (d) Baking
- 3. What is the purpose of unwrapping in texturing?
  - (a) To create animations
  - (b) To apply 3D textures
  - (c) To simplify modeling
  - (d) To allocate materials

4.	Whic	hich tool is essential for character sculpting?				
	(a)	Zmodeler	(b)	Photoshop		
	(c)	Blender	(d)	Dynamesh		
5.	What does Dynamesh help achieve in sculpting?					
	(a)	Color correction	(b)	Texture mappi	ng	
	(c)	Mesh refinement	(d)	Polygon reduct	ion	
6.	Which is a feature of 3D sculpting software?					
	(a)	Polygon reduction	(b)	Texture painting	ng	
	(c)	Map baking	(d)	Rigging		
7.	Wha	t is PBR in texturin	ng?			
	(a)	Physics-Based Ren	nderir	ng		
	(b)	Polygon-Based Ren	nderi	ng		
	(c)	Particle-Based Ren	nderii	ng		
	(d)	Pixel-Based Rende	ering			
8.	Which technique is used for map baking in PBR					
	(a)	Lighting adjustme	nt			
	(b)	Surface detailing				
	(c)	Normal map gener	ration	l		
	(d)	Rigging setup				
9.	What is the first step in character rigging?					
	(a)	Texture applicatio	n			
	(b)	Primitive rig creat	ion			
	(c)	Animation cycle				
	(d)	Scripting				
			2		C-4623	

	(c)	For sound integration
	(d)	For lighting effects
		Part B $(5 \times 5 = 25)$
	A	nswer <b>all</b> questions choosing either (a) or (b).
11.	(a)	Explain the process of building a character body mesh.  Or
	(b)	Discuss the importance of character proportion and layout in game design.
12.	(a)	Describe the steps involved in texturing character specular maps.  Or
	(b)	Explain the role of sculpting brushes in character detailing.
13.	(a)	What are the benefits of using Dynamesh in 3D sculpting?
		Or
	(b)	Discuss the significance of Retopology in high poly model sculpting.
14.	(a)	Explain the principles of PBR texturing techniques. Or
	(b)	Discuss the challenges of importing high and low poly models for texturing
15.	(a)	Describe the process of basic rigging for game characters.
		Or
	(b)	Explain the importance of animation cycles in game engines.
		3 <b>C-4623</b>

10.

(b)

Why are animation cycles important?

(a) For texturing accuracy

For seamless gameplay

Part C

 $(5 \times 8 = 40)$ 

Answer **all** questions choosing either (a) or (b).

16. (a) Discuss the entire workflow of creating a character from modeling to topology.

 $O_1$ 

- (b) Analyze the techniques for building a profile of the character shape, including hair and face mesh.
- 17. (a) Evaluate the role of unwrapping and texturing in bringing characters to life.

Or

- (b) Discuss the introduction and application of sculpting tools in modern game design.
- 18. (a) Explore the features of advanced 3D sculpting software and their impact on game design.

Or

- (b) Analyze the process and challenges of map baking in high poly model Sculpting.
- 19. (a) Discuss the significance of PBR in achieving realistic textures for games.

Or

- (b) Evaluate advanced map baking techniques and their importance in game development.
- 20. (a) Analyze the work flow from rigging to animation in game character creation.

 $O_1$ 

(b) Discuss the integration of advanced rigging techniques and their impact on animation quality.

C-4623

4

82832

## **B.Sc. DEGREE EXAMINATION, APRIL 2025.**

## **Third Semester**

## Game Arts and Design

#### 3D DIGITAL ART FOR GAMES

## (2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all the questions.

- 1. What is Maya modeling?
- 2. Define Productive modeling.
- 3. What are edge loops?
- 4. What is poly model?
- 5. Define topology.
- 6. Define texture in a model.
- 7. Define tabletop game industry.
- 8. What are handmade texture?
- 9. What is Hyper shading?
- 10. What is sky box?

Part B  $(5 \times 5 = 25)$ 

Answer ALL questions, choosing either (a) or (b).

11. (a) List and explain various ideas in productive game modeling.

Or

- (b) Explain in brief advantages of sculpt modelling.
- 12. (a) Explain gaming environment modeling.

Or

- (b) Discuss about level of detailing.
- 13. (a) Illustrate the process of assigning color map.

Or

- (b) Discuss on the role of PBR in creating a realistic look.
- 14. (a) Illustrate the process of mapping a 2d texture in a 3d plain.

Or

- (b) List and explain the selling ideas to gaming industry.
- 15. (a) List and explain impacts of using 3D gaming.

Or

(b) Discuss on various gaming engine.

C-4624

2

**Part C**  $(3 \times 10 = 30)$ 

Answer ALL questions, choosing either (a) or (b).

16. (a) Differentiate Modeling for animation and gaming objects.

Or

- (b) Discuss on the theory of LOD.
- 17. (a) Discuss on types of material and texturing.

Or

- (b) Elaborate the process of generating essential maps.
- 18. (a) Discuss on PBR (Physically-Based Rendering).

 $O_1$ 

(b) Discuss on challenges understanding size and scale in modeling.

82833

## **B.Sc. DEGREE EXAMINATION, APRIL 2025.**

#### Third Semester

#### Game Arts and Design

#### DESIGN AND COMMUNICATION FOR GAME DESIGN

## (2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all the questions.

- 1. What is sprite editor?
- 2. What is a 2D pixel art?
- 3. Define GUI.
- 4. Distinguish between UI design and UX design
- 5. What is Thaumatrope?
- 6. What is the importance of anatomy and proportions in 2D art form?
- 7. Define Prototyping
- 8. List few importance of prototyping.
- 9. What are reverb zones?
- 10. What is a character profiling?

Part B

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Write down the steps in creating 2D object.

Or

- (b) How to import a 2D character sprite sheet and use in a Game object in Unity.
- 12. (a) How to improve the look and feel of a user interface? Describe with appropriate menu, game controls etc.,

Or

- (b) How to create a main menu in unreal engines?
- 13. (a) How to make color switch replica in Unity?

Or

- (b) What are the steps in fixing the proportions an anatomy of your favorite character.
- 14. (a) What is an Interactive Space? Explain with example

Or

- (b) Explain an abstract art.
- 15. (a) How to write sound effects?

Or

(b) What are the features of building settings?

2

**Part C**  $(3 \times 10 = 30)$ 

Answer all questions, choosing either (a) or (b).

16. (a) Explain in detail the importance of brightness and shadow for character emotion with appropriate example.

Or

- (b) Explain the Principles of animation.
- 17. (a) Explain in detail the importance of prototyping.

Or

- (b) What is particle system? Explain its uses and effects.
- 18. (a) Design a GUI for any game of your choice with appropriate menu and game controls.

Or

(b) Create a 2D game object.

82834

## **B.Sc. DEGREE EXAMINATION, APRIL 2025.**

## **Third Semester**

## Game Arts and Design

#### **GAME PRODUCTION**

## (2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all the questions.

- 1. Define Communication.
- 2. What are Pitching ideas?
- 3. What is meant by Pattern recognition?
- 4. Define Puzzle design.
- 5. What does Alpha milestone mean?
- 6. What is Interactive story telling?
- 7. Expand CGI.
- 8. What is a Mesh filter?
- 9. What are called as Social games?
- 10. What is a Moral story mean in game production?

Part B  $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) What are the techniques to sell ideas to the game industry?

Or

- (b) Outline the languages used for game scripts.
- 12. (a) Elucidate the ways in which you will build a team for developing a game.

Or

- (b) Distinguish between level design and puzzle design.
- 13. (a) What are the various types of puzzle?

Or

- (b) Determine the constraints of game designing.
- 14. (a) Elaborate on storytelling and the types of stories.

Or

- (b) Discuss the need of adding humour and fun in storytelling.
- 15. (a) List out the different types of special games.

Or

(b) Compile the techniques used for marketing a game.

2

**Part C**  $(3 \times 10 = 30)$ 

Answer all questions, choosing either (a) or (b).

16. (a) Discuss about the career options available in gaming development.

Or

- (b) Explain Game window.
- 17. (a) Differentiate between traditional stories and personal experience stories.

Or

- (b) Elaborate the three act plot structure.
- 18. (a) Write a note on the importance of games as a teaching tool.

Or

(b) Discuss the process of marketing, packaging games to the audience.

82842

## **B.Sc. DEGREE EXAMINATION, APRIL 2025.**

## **Fourth Semester**

## Game Art and Design

#### LEVEL DESIGN FOR GAME

## (2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all the questions.

- 1. What is level design?
- 2. What should be the ideal duration of a game level?
- 3. What is sprite animation?
- 4. Write about pixel ratio.
- 5. What is view plan?
- 6. Write about play test.
- 7. What is room?
- 8. Write about triggers.
- 9. What is vegetation?
- 10. Name three ways that terrain can be fun.

Part B  $(5 \times 5 = 25)$ 

Answer ALL questions, choosing either (a) or (b).

11. (a) Write about level ideation.

Or

- (b) Explain colouring perspective.
- 12. (a) Explain about level ideation.

Or

- (b) Differentiate 2D and 3D level design.
- 13. (a) Describe the process of identifying game play.

Or

- (b) Explain play testing and finalising.
- 14. (a) Explain process of building level.

Or

- (b) Describe the brush concepts.
- 15. (a) What are the things to be considered while texturing terrain? Explain.

Or

2

(b) Explain sand box.

**Part C**  $(3 \times 10 = 30)$ 

Answer ALL questions, choosing either (a) or (b).

16. (a) Explain the fundamentals of game design level layouts.

Or

- (b) Explain principles and segments.
- 17. (a) Write about top view plan.

Or

- (b) Describe the process of identifying core game components.
- 18. (a) Discuss about 2D platform design.

Or

(b) Describe in detail about Terrain and Strategy.

82843

## **B.Sc. DEGREE EXAMINATION, APRIL 2025.**

## **Fourth Semester**

## Game Arts and Design

#### 3D CHARACTER DESIGN FOR GAME

## (2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all the questions.

- 1. Mention two characters of game topology
- 2. What are low poly models?
- 3. What are the steps in creating hands and feet?
- 4. How to choose colors for mapping?
- 5. What is unwrapping and texturing?
- 6. How to do character unwrapping?
- 7. What is sculpting?
- 8. Define alpha textures.
- 9. What is Retopology?
- 10. What is Dynamesh?

Part B

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Explain the proportion and layout in character modeling.

Or

- (b) Explain the steps in building character body mesh.
- 12. (a) Describe the sculpting tools used in character unwrapping.

Or

- (b) Explain character detailing.
- 13. (a) Explain transposing in Virtual Reality with appropriate examples.

Or

- (b) Explain Map baking techniques for 3D gaming.
- 14. (a) What should you think about when creating a game character?

Or

- (b) Explain the importance of lights in PBR.
- 15. (a) What are basic and advanced rigging techniques? Explain.

Or

(b) What are steps involved in game animation?

2

**Part C**  $(3 \times 10 = 30)$ 

Answer all questions, choosing either (a) or (b).

16. (a) Illustrate a video game character.

Or

- (b) What are the steps in creating a 3D character and high poly model sculpting?
- 17. (a) Explain the principles for game animation.

Or

- (b) Write about 3D sculpting softwares and user interface.
- 18. (a) Detail the Sculpting tools.

Or

(b) Create a story board for 3D animation.

3