

UNIVERSITY OF TEESSIDE

SCHOOL OF COMPUTING

HISTORY OF GAMES

COM1006 Stage 1

EXAMINATION

Academic Year 2004/2005

MAY 2005

Time Allowed: 2 hours

Rubric

Answer **ONE** question from **Section A** in the answer book provided.

Answer **ALL** the questions in **Section B** on the machine checkable answer sheet (MCQ) provided.

SECTION A

Answer **ONE** question from this Section in the answer book provided.

1. Discuss the key driving forces and technologies which made the first videogames possible.

2. Discuss the main elements and characteristics which you would expect to find in **ONE** of the following videogame genres and illustrate your answer with descriptions of at least five key games of this genre.
 - Driving/Racing Games
 - First Person Shoot 'em up Games
 - Role-Playing Games (RPGs)
 - Strategy Games

3. “Are videogames bad for your health?” Discuss this question with regard to the positive and negative effects of playing videogames.

4. What are the key areas of the law affecting the videogames industry?

5. SECTION B

Answer **ALL** the questions in this section on the MCQ answer sheet provided.

- 1) What was the name of the first ever arcade coin-op videogame created?
 - a) Tennis for Two.
 - b) Pong.
 - c) Computer Space.
 - d) Space Invaders.
 - e) Spacewars.

- 2) Which of the following videogames from the early 1980s was used to test military radar control personnel on their ability to manage multiple incoming hostile targets?
 - a) Defender.
 - b) Battlezone.
 - c) Missile Command.
 - d) Galaxians.
 - e) Galaga.

- 3) Who is the author of the book “Trigger Happy: The inner life of videogames”?
 - a) J.C. Herz.
 - b) Steven Poole.
 - c) Leonard Herman.
 - d) Ben Sawyer.
 - e) Van Burnham.

- 4) What was the first videogame to use 3D colour flat-shaded polygon graphics?
 - a) Tempest.
 - b) I, Robot.
 - c) Asteroids.
 - d) Lunar Lander.
 - e) Galaxians.

- 5) An early videogame pioneer was working as a pinball arcade manager in a Salt Lake City amusement park in the late 1960s when he came up with the idea of coin-operated videogames (coin-ops). Who was he?
 - a) Herman Hollerith.
 - b) Steve Russell.
 - c) Willy Higginbotham.
 - d) Nolan Bushnell.
 - e) Ralph Baer.

- 6) The screenshot shown below is from the opening position of a well-known first person shoot 'em up. What is the name of the videogame?



- a) Dark Forces.
 b) Duke Nukem 3D.
 c) Quake.
 d) Doom.
 e) Wolfenstein 3D.
- 7) In 1996, Seta, a Japanese N64 games developer, released a game cartridge that contained a telephone jack and modem so that gamers could play against each other over the telephone. This made it the first commercially successful online console game. What was the game called?
- a) Morita Shogi.
 b) Net Chess.
 c) ChessMaster.
 d) Checkmate.
 e) Shogun.
- 8) What was the name of the launch game that was shipped with the Sega Saturn, which contributed enormously to its early commercial success?
- a) Tekken.
 b) Dead or Alive.
 c) Mortal Kombat.
 d) Streetfighter II.
 e) Virtua Fighter.
- 9) The Sega Dreamcast had several codenames before it was finally released. Which of the following names was **never** used as a codename for the Dreamcast?
- a) Saturn 2.
 b) Black Belt.
 c) Katana.
 d) Dural.
 e) Quantum.

10) A videogame console company released a game development system for home use in the 1990s, which was made available to the general public called 'Net Yaroze': meaning "Let's do it". Which company produced the system?

- a) Sega.
- b) Nintendo.
- c) Sony.
- d) Microsoft.
- e) Panasonic.

11) Which videogame is shown in the screenshot below?



- a) Grand Theft Auto.
- b) Carmageddon.
- c) Outrun.
- d) Gran Turismo.
- e) Driver.

12) Which arcade coin-op videogame is commonly acknowledged as the most commercially successful ever?

- a) Space Invaders.
- b) Asteroids.
- c) Tetris.
- d) Super Mario Bros.
- e) Pac-Man.

13) Which of the following was a key game element introduced in Atari's 'Asteroids' coin-op videogame used in almost all shoot 'em up videogames which followed it?

- a) Level-based design.
- b) A high score.
- c) Progressive difficulty.
- d) Background music.
- e) High score table with players' initials/name.

- 14) What was the Nintendo Entertainment System (NES) videogame console, released in America and Europe, known as in Japan?
- a) Famicom.
 - b) Intellivision.
 - c) Odyssey.
 - d) Genesis.
 - e) Video Computer System (VCS).
- 15) Which of the following videogames was the first ever shoot 'em up created?
- a) Asteroids.
 - b) Missile Command.
 - c) Tank.
 - d) Battlezone.
 - e) Space Invaders.
- 16) Many videogames contain undocumented secrets in the form of mini-games, extra characters, levels etc. What are such secrets commonly known as?
- a) Monkey nuts.
 - b) Christmas gifts.
 - c) Magic moments.
 - d) Easter eggs.
 - e) Trap doors.
- 17) What was the name of the first one-on-one martial arts beat 'em up game which came out in 1984 trading partly on the success of the feature film 'Karate Kid'?
- a) Karate Champ.
 - b) Samurai.
 - c) Mortal Kombat.
 - d) Yie Ar Kung Fu.
 - e) Streetfighter.
- 18) Playing videogames for long periods of time over several years can cause a condition known as RSI in your hands and wrists. What does the acronym RSI stand for?
- a) Repressed Shock Insensitivity.
 - b) Rheumatoid Stress Inflammation.
 - c) Regular Sensitivity Injury.
 - d) Repetitive Strain Injury.
 - e) Repeated Stress Inflammation.

- 19) Which modern console was marketed using the slogan: “Life is short – Play more”.
- a) Sega Dreamcast.
 - b) Nintendo Gameboy Advance.
 - c) Sony Playstation 2.
 - d) Microsoft Xbox.
 - e) Nintendo Gamecube.
- 20) In the 2D platform game ‘Jazz Jackrabbit 2’, there is a point where your character gets dizzy and doesn't respond to the controls properly. What causes this?
- a) Drinking from a beer bottle.
 - b) Jumping too high.
 - c) Inhaling smoke rings.
 - d) Drinking dizzy water.
 - e) Being hit on the head.
- 21) In which classic 2D platform game do you temporarily “kill” your enemies by digging holes and tricking them into falling in as they chase you?
- a) Lode Runner.
 - b) Mario.
 - c) Duke Nukem.
 - d) Cosmo’s Cosmic Adventure.
 - e) Troy.
- 22) In the early text-based adventure game ‘Colossal Cave’ (a.k.a. ‘Advent’), what is the secret password that returns you to the starting point of the game?
- a) plugh.
 - b) xyzy.
 - c) abracadabra.
 - d) izzywizzy.
 - e) black rod.
- 23) What type of game perspective is used in the Microsoft strategy game series ‘Age of Empires’?
- a) First person.
 - b) Third person.
 - c) Threequarter view.
 - d) Top down.
 - e) Side view.

- 24) What was the first videogame console to have a 'joystick'?
- a) Magnavox Odyssey.
 - b) Atari VCS.
 - c) Fairchild Channel f.
 - d) Nintendo Famicom (aka. NES).
 - e) Mattel Intellivision.
- 25) This was a horizontal scrolling game which featured the use of a radar scanner displayed at the top of the screen to portray the entire game playing area to the player, as well as a more detailed localised viewpoint. The arcade coin-op used a four-position joystick and five buttons - fire, thrust, hyperspace, reverse and smart bomb. What is the videogame being described?
- a) Battlezone.
 - b) Asteroids.
 - c) Zaxxon.
 - d) Defender.
 - e) Missile Command.
- 26) What is the name of the computer graphics process which blends colours at diagonal edges with background colours to soften the jagged effect and make it appear smoother?
- a) Anti-aliasing.
 - b) Blending.
 - c) Fading.
 - d) Un-jagging.
 - e) Smoothing.
- 27) What is the name given to the computer graphics technique whereby texture maps with increasingly higher resolutions are substituted so the appearance of the surface remains at an acceptable level of detail?
- a) Voxels.
 - b) Sub-surfaces.
 - c) Texels.
 - d) Bump mapping.
 - e) Mip-mapping.
- 28) Territorial lockout techniques were invented to prevent a particular videogames industry problem. What is this problem called?
- a) Black Market.
 - b) Bootlegs.
 - c) Chipping.
 - d) Ripping.
 - e) Grey Market.

29) What is the name of the shading technique used in the Nintendo GameCube game 'The Legend of Zelda: The Windwaker' illustrated in the screenshot below?



- a) Blinn shading.
- b) Flat shading.
- c) Phong shading.
- d) Cel Shading.
- e) Gouraud Shading.

30) Who created the arcade shoot 'em up game 'Space Invaders'?

- a) Tomoshiro Nishikado.
- b) Fusajiro Yamauchi.
- c) Eugene Jarvis.
- d) Iain Lee.
- e) Hideo Kojima.

31) What is the name of the computer graphics technique that is used to calculate which polygons in a 3D game scene are visible and to be rendered into the 2D viewing frame and which polygons are not visible and thus are not rendered?

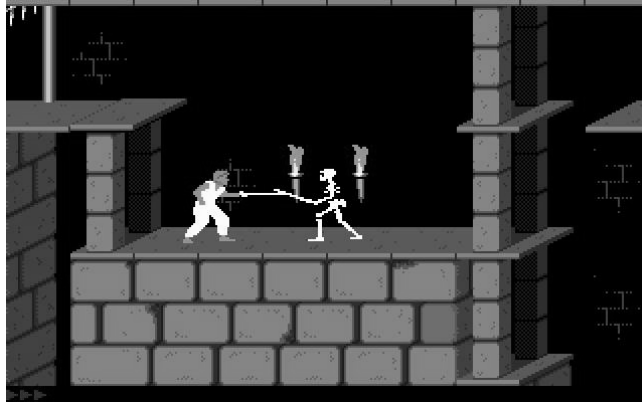
- a) Mip-mapping.
- b) Shading.
- c) Z-buffering.
- d) Depth-mapping.
- e) Cropping.

32) Who created the early videogame 'Pong'?

- a) Nolan Bushnell.
- b) Ralph Baer.
- c) David Rosen.
- d) Ted Dabney.
- e) Al Alcorn.

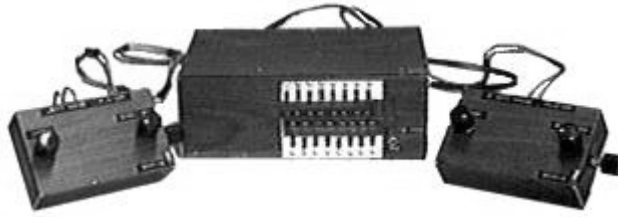
- 33) In the 'Final Fantasy' series of RPG games, pre-rendered scenes have been used from 'Final Fantasy VII' onwards. Which of the following statements about pre-rendered scenes is false?
- a) They are used for scenes that are too complex for the game engine to render in real-time.
 - b) They generally look worse than the best graphics the game system is capable of producing in real-time.
 - c) The scenes can only be viewed from the angle at which they are rendered.
 - d) The graphical quality is achieved at the expense of freedom of movement for the characters within the scene.
 - e) The scenes are pre-rendered on more powerful computers and are then saved in a format the game engine can use quickly.
- 34) In the arcade shoot 'em up game 'Centipede', you shoot the centipede as it progresses down the screen impeded by a field of mushrooms. However, you also have another enemy: what is it?
- a) Worm.
 - b) Spider.
 - c) Bird.
 - d) Chicken.
 - e) Farmer.
- 35) An arcade game, released by Stern in 1980, was the first game to use voice synthesis. You had to navigate your laser-toting stick figure through a seemingly endless set of mazes whilst avoiding trash talking robots ("Destroy the humanoid" - "Chicken! Fight like a robot" - "Coins detected in pocket") and an indestructible happy fun-ball called Otto. What was it called?
- a) Gorf.
 - b) Qix.
 - c) Tempest.
 - d) Berzerk.
 - e) Galaga.
- 36) Which of the following films was not made into an X-rated console videogame in the early 1980s?
- a) Death Race 2000.
 - b) The Bitch.
 - c) Halloween.
 - d) Texas Chainsaw Massacre.
 - e) Flesh Gordon.

37) What videogame is shown in the screenshot below?



- a) Tomb Raider.
 - b) Arabian Nights.
 - c) Heretic.
 - d) Magic Carpet.
 - e) Prince of Persia.
- 38) During World War II, in 1942, a team of codebreakers at Bletchley Park used valve-based computing machines called Bombe to aid in breaking German military ENIGMA code messages. Who led this team and designed the Bombe, which were the first programmable electronic computers?
- a) John Mauchly.
 - b) John Von Neumann.
 - c) Alan Turing.
 - d) Howard Aiken.
 - e) Marty Bromley.
- 39) In 1966 SEGA released an electromechanical arcade game that was a massive hit in Japan, the U.S. and Europe: becoming Japan's first coin-op game export. What was the game called?
- a) U-Boat.
 - b) Submarine.
 - c) Banzai!.
 - d) Torpedo.
 - e) Periscope.
- 40) In the film "Back to the Future II", Marty McFly (played by Michael J. Fox) plays on an 80's arcade videogame: what was it called?
- a) Quick Draw McGraw.
 - b) Wild Wild West.
 - c) Gun Smoke.
 - d) Wild Gunman.
 - e) Bandits.

41) The picture below shows the prototype for an early home videogame console. What was it called?



- a) Videobrain.
 - b) Fairchild Channel f.
 - c) Magnavox Odyssey.
 - d) Atari VCS.
 - e) Atari Home Pong.
- 42) What was the name of the first film in which CGI special effects were used to render all of the spaceships?
- a) The Last Starfighter.
 - b) Star Trek.
 - c) Tron.
 - d) Battlestar Gallactica.
 - e) Star Wars.
- 43) The film "Streetfighter" is based on the well-known beat 'em up game series created by which well-known games company
- a) Capcom.
 - b) Imagine.
 - c) Namco.
 - d) Data East.
 - e) Melbourne House.
- 44) The arcade classic game 'Pac-Man' had to have its name changed shortly before release. What was its originally proposed name?
- a) Pizza-Man.
 - b) Puck-Man.
 - c) The Blob.
 - d) Dot-Eater.
 - e) Yomper.

- 45) In the practical sessions we played a clone of an early arcade and home console game called 'PC-Bert'. What was its original name on release?
- a) Cubert.
 - b) Qix.
 - c) P*Bert.
 - d) Q*Bert.
 - e) Bertie.
- 46) The 3D first person shoot 'em up game 'Wolfenstein 3D' was released by id Software in 1992. What was the follow-up game released less than a year later?
- a) Spear of Destiny.
 - b) Doom.
 - c) Heretic.
 - d) Hexen.
 - e) Return to Castle Wolfenstein.
- 47) 'Kingdoms' was a clone of the first ever computer strategy game using text to control the fortunes of an ancient civilisation. What was the the name of the original game?
- a) Babylon.
 - b) Nebuchadnezzar.
 - c) Persia.
 - d) Egypt.
 - e) Hammurabi.
- 48) What exactly was 'Bleem'?
- a) A hand-held pattern matching game using sounds and flashing coloured buttons.
 - b) An emulation program for the Sega Dreamcast allowing you to play Sony PlayStation games.
 - c) A puzzle game involving the solution of a code based on coloured pegs.
 - d) An attachment for the Nintendo GameBoy allowing it to play mp3 music files.
 - e) A type of Pokemon.

49) Here is the blurb from a videogame related film with the name blanked out. What is the name of the film?

“The near future: _____ is the ultimate game, brainchild of the hip, hyper and sexually alluring Allegra Geller. Once downloaded via a bioport implanted into the players spine: _____ promises an experience that will shatter forever the line between fantasy and reality. At its launch armed fanatics burst in, determined to destroy the game and its creator. Forced to run for her life, Allegra's sole ally is a young security guard, Pikel. Together they seek refuge in the only place the gaming goddess feels safe - the world where existence ends and _____ begins.”

- a) VirtuaSpace.
- b) Hackers.
- c) eXistenZ.
- d) Final Fantasy.
- e) Strange Days.

50) What videogame is shown in the screenshot below?



- a) Ico.
- b) Heretic.
- c) Rez.
- d) Prince of Persia.
- e) Frequency.