Additional Multiple Choice Questions (MCQs) 1. What is a system's primary purpose? a) To interact with its componentsb) To achieve its objective c) To remain static d) To communicate with the environment 2. Which of the following is a subsystem of the human body? b) The respiratory system a) DNA d) A car engine c) The Internet 3. What is the speed of information traveling in the human brain? b) 200 miles per hour a) 150 miles per hour c) 268 miles per hour d) 300 miles per hour 4. Which property describes a static environment? b) No changes occur without system output a) Changes occur randomly c) Changes occur independently of the system d) The environment is dynamic 5. What is the human brain's approximate number of neurons? b) 50 billion a) 10 billion c) 86 billion d) 100 billion 6. Which type of system is characterized by uncertainty in outcomes? b) Non-deterministic c) Static a) Deterministic d) Predictable 7. What does DNA measure in length when extended from a single human cell? b) 2 meters a) 1 meter c) 10 meters d) 5 kilometres 8. What does the Von Neumann architecture use for storing data and instructions? a) Separate memory units b) Peripheral devices

9. Which of the following is a dynamic environment?

c) A single memory

a) A thermostat system

c) Weather conditions

d) Cloud storage

b) A library catalog system

d) A mathematical formula

CS CamScanner

| 10. What is an example of system co | ommunication in the human body? |
|---|--|
| a) A car engine converting fuel to ener | rgy b) DNA creating proteins |
| c) Neurons sending signals | |
| d) A thermostat adjusting temperature | |
| 11. What is a system? | 트리스 등에 되어 있다. 장마음에서 그 2개를 통원하고 중요하고 2개를 되었다. |
| a) A single component that performs a | specific task |
| b) A set of components that work toge | ether to achieve a common goal |
| c) A collection of unrelated componen | its salasas a les ana comparado como |
| d) A complex process | Tiple on A since all a large Salva 188 |
| 12. Which of the following is NOT a | basic component of a system? |
| a) Objectives | b) Components |
| c) Communication among component | |
| 13. What is the primary purpose of | |
| a) To define the system's structure | |
| o) To define the system's purpose or g | oal C |
| c) To define the system's environment | |
| d) To define the system's components | |
| 14. Which of the following is an ava | mple of a system with a specific goal? |
| a) A computer network | b) A transport system |
| c) A thermostat system | d) All |
| 15. What is the environment of a sys | |
| a) The system's internal components | den 17 da di an dana 1845an aka aka 1861 aka 1861 a |
|) The system's external components | |
| t) The system's objectives | |
| | |
| d) Everything external to the system the system the two main types of s | at interacts with it |
| Natural and physical systems | |
|) Natural and physical systems | b) Artificial and biological systems |
|) Natural and artificial systems d) | Chemical and psychological systems |
| 7. What is an example of a natural) A computer network | 21. 프로그램 : Barrier Barrier St. 20. 20. 20. 20. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1 |
|) A forest ecosystem | b) A weather forecasting system |
| 8. What type of system is marray | d) A transportation system |
| 8. What type of system is governed) Chemical system | by the laws of physics? |
|) Physical system | b) Biological system |
| 9. What type of system involves and | d) Psychological system |
| 9. What type of system involves sul Physical system | b) Chamballant interactions? |
|) Biological system | b) Chemical system d) Psychological system |
| | U) PSVChological system |

| 20. What type of system consists o | i nving organisms an | u their |
|---|---|----------------|
| interactions? | b) Chemical syster | n |
| a) Physical system | d) Psychological s | |
| c) Biological system 21. Which of the following is a natu | ural system? | ystem |
| 21. Which of the following is a flat. a) A robot b) An ocean | c) A smartphone | d) A car |
| a) A robot b) An ocean 22. What governs physical systems | | 77. Cai |
| 22. What governs physical systems | b) Laws of physics | |
| a) Economic laws c) Psychological principles | d) Social norms | |
| 23. Which of the following is an ex | ample of a chemical | system? |
| a) A cell phone | b) A water molecu | le S |
| a) A forest ecosystem | d) A galaxy | |
| 24. What process governs biological | al systems? | |
| a) Chemical reactions | the second section with the second | |
| b) Biological processes like growth an | d reproduction | |
| a) Developical hehaviour | d) Social interaction | ons |
| 25. Psychological systems emerge | from which type of s | ystem? |
| a) Physical systems | b) Biological syste | 1115 |
| c) Artificial systems | d) Chemical system | ns |
| 26. What are artificial systems desi | gned to do? | |
| a) Operate independently of human in | itervention | |
| b) Exist naturally in ecosystems | | -1 |
| c) Fulfill specific human needs or purp | oses d) Govern natur | ai processes |
| 27. Which of the following is NOT a | an example of a natu | irai systemi |
| a) A tree b) A mountain | c) A computer | d) An atom |
| 28. What combines to form hydrog | en gas (H₂)? | |
| a) Two protons | b) Two electrons | |
| c) An electron, a proton, and a neutron | d) Two neutrons | |
| 29. What principle governs the form | nation of water (H2C | 0)? |
| a) Laws of physics | b) Laws of chemist | ry |
| c) Laws of biology | d) Psychological pr | |
| 30. What is a key characteristic of p | 중요 하다. 그 이 사람들은 이 경기를 가는 것이 되었다면 하다면 하는데 되었다. 그 사람들은 그리고 있다면 그리고 있다면 그렇다. | |
| a) They form galaxies. b) T | hey are governed by | economic laws. |
| c) They involve thoughts, emotions, an | d hehaviours | |
| d) They depend on artificial intelligence | 0 UCHIQVIOUIS. | |
| 31. What are artificial systems? | | Autoria Sala |
| a) Systems that exist in nature | b) Systems created | by bumans |
| c) Systems that are complex and difficu | ilt to understand | |
| d) Systems that are only used in engine | | |
| | | |

32. What is the primary purpose of knowledge systems? a) To capture and manage information b) To solve complex engineering problems c) To improve efficiency in business processes d) To develop new software applications 33. What is software engineering? a) The process of designing, developing, and maintaining software b) The study of electrical engineering systems c) The application of chemical engineering principles d) The development of mechanical engineering systems 34. What is the main purpose of artificial systems? a) To replace natural systems b) To solve specific problems and improve processes c) To mimic biological systems d) To disrupt traditional practices 35. Which of the following is a knowledge system? a) A water treatment plant b) An online library management tool c) A relational database like MySQL d) A robotic arm in a factory 36. What is an example of a civil engineering system? a) A robotic arm b) A home automation system 37. What does a mechanical engineering system utilize to accomplish work? a) Raw materials b) Electric signals c) External forces d) Stored data 38. What is the focus of electrical engineering systems? b) Utilizing chemical reactions a) Managing data, c) Applying electricity and electromagnetism d) Building bridges and roads 39. Which of the following is an example of a software engineering system? a) A robotic arm b) A smartphone app for home automation c) An online tool for tracking library books d) A water treatment plant 40. What does a knowledge system facilitate? a) Managing information resources effectively b) Constructing houses and bridges c) Building robotic devices d) Automating home appliances 41. What type of database system is MongoDB? a) Relational database b) Chemical database c) NoSQL database d) Logical database 42. Which artificial system involves the application of logic? a) A home automation system b) A database management system c) A theoretical model for reasoning d) A robotic assembly line

| | neering system in Lanore provides efficient |
|--|--|
| transportation? | 난 이 회사는 이 이 이번 생각이 되는 것이 하면 하는 회사 있었다. |
| a) Virtual Reality c) Electric traffic lights | b) Metro Train System |
| c) Electric traffic lights | d) Smart sensors |
| 44. What technology is u | sed in modern traffic systems to enhance |
| safety? | |
| a) Manual controls | b) Smart sensors and Al |
| c) Steam engines | d) Virtual Reality |
| | electric traffic lights built? |
| a) New York City, USA | b) London, England |
| c) Cleveland, Ohio, USA | d) Lahore, Pakistan |
| 46. What is an example of | an Al system that recognizes human speech? |
| a) MySQL b) Siri | c) Virtual Reality d) Robotic Arm |
| 47. What does Virtual Rea | ality (VR) enable users to do? |
| a) Control traffic systems | |
| b) Explore and interact with | immersive digital worlds |
| c) Communicate through Al | d) Build bridges |
| 48. Which of the following | g is NOT an application of VR technology? |
| a) Garning | b) Teaching |
| c) Astronaut training | d) Traffic light systems |
| 49. What year were the fir | st electric traffic lights installed? |
| a) 1905 b) 1914 | c) 1925 d) 1020 |
| 50. Which technology can | make users feel as if thou are physicall |
| present in a digital environ | ment? |
| a) Artificial Intelligence | b) Virtual Reality |
| c) Robotics | d) Chamical Francis |
| 51. Which of the following | Al systems can recognize and respond to |
| human speech? | to see and respond to |
| a) Siri and Google Maps | h) Siri and Ale |
| c) Alexa and Google Maps | b) Siri and Alexa |
| 52. What is Virtual Reality (| d) Google Maps and YouTube |
| a) Only for gaming | VK) used for? |
| b) Only for teaching | |
| c) Only for astronaut training | |
| d) For gaming, too shi | |
| d) For gaming, teaching, and 53. Which of the following: | astronaut training |
| a) A forest program | astronaut training is an example of a social system? b) A government |
| c) A computer | b) A government institution |
| c) A computer network | d) A biological system |
| Answer: b) A government ins | titution system |
| 54. What is the primary goa a) To create artifacts | of social system |
| care armacts | b) To impress |
| | b) To improve transportation |
| · The Part of the Part of the Control of the Part of t | |

| c) To maintain order and provide services d) To develop software systems |
|---|
| 65. What is the nature of natural science? |
| Descriptive b) Prescriptive c) Constructive d) Abstract |
| 56. What is the focus of design science? |
| a) Describing natural phenomena b) Creating artifacts to solve problems |
| Observing natural systems d) Managing ecosystems |
| 57. Which science type follows the regulative cycle? |
| a) Natural science b) Design science |
| c) Political science d) Social science |
| 58. What is the main objective of a computer? |
| a) To perform computations and process data |
| b) To provide entertainment and play games |
| c) To communicate with other computers |
| d) To control other devices |
| 59. Which of the following is a component of a computer? |
| a) Power supply b) Interface components |
| c) Internet connection d) Software application |
| 60. What is the function of the CPU in a computer? |
| a) To store data and instructions |
| b) To provide input and output operations |
| c) To perform computations and execute commands |
| d) To control the flow of data |
| 61. What is the role of the operating system in a computer? |
| a) Input and output operations |
| b) Determine the appropriate actions to take |
| c) To store data and instructions |
| d) To control the flow of data |
| 62. Which of the following is an example of an algorithm studied in |
| computer science? |
| a) Virtual Reality b) Quicksort c) DBMS d) Computer architecture |
| 63. What is an example of a tool developed through design science? |
| a) A sorting algorithm b) A new programming language |
| a) A sorting algorithm b) A new programming language c) A natural rule governing computation d) A physical hard drive |
| 64. Which science involves creating to also a physical hard drive |
| 64. Which science involves creating tools to solve specific problems in computer science? |
| 3) NSG (2.1 - 1.1 - 1. |
| A Social and the second |
| 65. Which doving |
| a) CPU b) System bus of Power symple of Market periods |
| D) Syctom bue of Downer sumal. Il Mathachaned |
| 66. What connects the CPU to other computer components? a) Peripherals b) System bus c) Operating system d) Power supply |
| b) System bus c) Operating system d) Power supply |
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|--|--------------------|--------------------------|--------------------------|--------------------------|----------------------------------|--------------------------|--------------------------|--------------------------|------------------------------|--|----------------|
| 67. | Which | h of th | e foll | owing | 15 a |) Keyt | oard | | d) Spe | aker | |
| | ennitar | • | D) | Lillice | | | .:2 | | | | |
| 60 | What | is an | examp | ne o. | | Daint | or . | | d) Har | d drive | |
| a) M | lonitor | | (d | IVIOUS | an out | put d | evice i | n Von | d) Har Neum | lann | |
| 69. | What | is an | examp | ie o. | | | | | | | |
| arch | itectu | re? | | | . () | Moni | tor | | d) CPL |) | |
| a) Ke | yboar | d | b) | Mouse | norfor | ms co | mput | ations | ? | | |
| 70. | Which | part | Of the | C. C. | 0 | a) All | 11 | | d) Syst | em Bu | S |
| a) (Cl | J) | | 0) | Addite. | 33 043 | | | nn arc | hiteat | ure? | |
| 71. V | Vhat is | the a | dvant | tage o | tne b | Simp | lified o | lesign | hitect and fle trage o | xibility | / |
| a) Imi | proved | secui | rity | | | Falso | acad c | lata sto | arage (| capacit | y |
| c) Inc | reasec | proce | essing | speed | ary ob | iectiv | es of a | com | uter | netwo | rk? |
| 72. W | hat is | one | or the | himm | b) | Resou | urce st | naring | | | |
| a) Dat | ta enci | yptioi | vamn | le of a | a phys | ical m | rediun | n used | for d | ata tra | insfer i |
| 73. W | uter r | s all e | rk? | | | | | | | | |
| comp | tocols | ietwo | · K. | | b) | Netw | ork ca | bles | | | |
| a) P10 | erating | syste | ms | | d) | Switc | ork ca hes noute | | . I | | |
| 74 W | hich t | vpe o | f netv | vork e | onnec | ts cor | npute | rs ove | r large | er geo | grapni |
| region | ns? | 36 | | | | | | | A) DAA | | |
| a) LAN | 1 | 169.34 | b) N | IAN | (c) | WAN | | m | d) PAN | n over | the |
| 75 W | hat is | the c | ore pr | OTOCO | i gove | :::::::9 | duta | | | | · · · · · |
| intern | et? | | | | 1 | 200 | ***** | | d) UDF | • | |
| a) TCP | /IP | | b) F | ΤP | C) | POP | - 0000 | le froi | m a se | rver o | r |
| 76. W | hich p | rotoc | ol is u | ised to | or retr | leving | j ema | 13 110 | m a se | | |
| netwo | ork? | | | | | | | | d) SM1 | | |
| a) FTP | | | b) P | OP | or file | trans | fors he | twee | n com | puter | 5? |
| 77. W | hich p | rotoc | OI IS U | ro | or rise | POP | | | d) TCP | | |
| a) UDI | | | b) F | · F | • | | | | | | |
| Answ | - | | | 5 | 6 | 7 | 1. 8 | 9 | 10 | 11 | 1 201 |
| 1 | 2 | 3 | 4 | 1.1 | | 1 1 2 2 | | | | The state of the s | 12 |
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| 73 | 74 | 75 | 76 | 77 | | | | | | | 11 |
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