

Marking Guide



DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF BENIN, BENIN CITY.
FIRST SEMESTER EXAMINATION FOR 2015/2016 SESSION



COURSE CODE: CSC110
COURSE TITLE: Introduction to Computer Science

Time: 50 Minutes

- INSTRUCTIONS:
1. Attempt all Questions and shade the box corresponding to the options chosen. Please shade clearly your Name, Matriculation Number, Question Type and use HB pencil only.
 2. DO NOT USE CALCULATORS or MOBILE PHONES!!!!
 3. If you cannot reason LOGICALLY or Work at Great Speeds, then you are not supposed to Pass this Course

D TAKE NOTE OF THE FOLLOWING INFORMATION:

- The general steps for converting any number from base 10 to base n are:
 - a. Divide the decimal number by n
 - b. Note the remainder separately as the rightmost digit of base n equivalent
 - c. Divide the quotient again by n
 - d. Note the remainder as next left digit of base n number
 - e. Repeat steps c and d until quotient becomes 0
- The steps for converting a number in base m to decimal are:
 - a. Multiply each digit of base m number by m having powers $(1, 2, 3, \dots, n)$
 - b. Sum all the products to get the decimal equivalent.

YOUR QUESTION PAPER MUST BE SUBMITTED ALONG WITH YOUR SCRIPT OR ELSE YOUR PAPER WILL NOT BE GRADED!!!!

NAME: DEPT:

(Surname Last in Capital letters)

MAT. NO: SIGN:

Converting the number 782_{10} to its base 5 equivalent would give? (A). 1113_5
(B). 32211_5 (C). 11112_5 (D). 10112_5 (E). 10411_5

The protocol that is commonly used when you download programs for your computer from Internet sites or when you upload webpages to a web server is known as?

(A). Telnet (B). FTP (C). Gopher (D). TCP/IP (E). HTTP

Which of these languages is considered as the first structured procedural language?

(A). Oberon (B). MODULA-2 (C). SmallTalk (D). LISP (E). ALGOL

Converting the number 3442_6 to its decimal equivalent would give? (A). 648_{10}
(B). 818_{10} (C). 713_{10} (D). 666_{10} (E). 419_{10}

5. Which protocol allows a user's computer once connected, to emulate a remote computer? (A) Telnet (B). FTP (C). Gopher (D).TCP/IP (E). HTTP
6. General-purpose or third generation languages are also called.....languages.
(A) Procedural (B). Problem-oriented (C). Natural
(D). Object-oriented (E). Visual programming
7. These computers are often used by Engineers, scientists and other professionals who need to run complex programs and often refer to personal computers connected to a network. (A). Super Computer (B) Workstation (C). Notebooks
(D). Personal Digital Assistant (E). iPad Mini
8. Converting the number 2314_9 to its octal or base 8 equivalent would give?
(A). 2362_8 (B) 3262_8 (C). 1476_8 (D). 3456_8 (E). 3361_8
9. Expressing the number ABC_{16} in base 7 would result in? (A). 10014_7
(B). 31014_7 (C). 10104_7 (D). 11004_7 (E). 61041_7
10. Which version of Microsoft Windows was also known by the codename 'Chicago'?
(A). Windows 3.1 (B). Windows XP (C). Windows Vista
(D) Windows 95 (E). Windows 98
11. _____ storage is used to store information permanently for future use
(A) Main memory (B) Random Access Memory (C) Secondary storage devices
(D) Registers (E) variable
12. The Radar System used in the control tower of airports is an example of?
(A) General Purpose Computer (B) Dual Purpose Computer (C) Tower System
(D) Dedicated System (E) Multipurpose Computer
13. _____ retains its content until it is exposed to ultraviolet light
(A) PROM (B) EEPROM (C) DRAM (D) EPROM (E) none of the above
14. Fetching, Decoding, Executing and Storing are functions performed by _____
(A) Registers (B) Control Unit (C) Arithmetic and Logical Unit
(D) Input Unit (E) output unit
15. Converting 3442_5 to its decimal equivalent would give? (A). 818_{10}
(B). 339_{10} (C). 419_{10} (D). 497_{10} (E). 666_{10}
16. A method for representing instructions in a module with a language very similar to a computer program code is also referred to as? (A). Flowchart
(B). Algorithm (C). Logic (D). Pseudocode (E). Program
17. Amplitude and Frequency are characteristics of (A) Digital waves (B) Discrete Carrier waves (C) Analog Carrier Waves (D) Discrete waves
18. The process of converting analog signals to digital signals is called (A) Modulation
(B) Demodulation (C) Analog encoding (D) Digital encoding (E). MODEM
19. The following are functions of communication software except
(A) establish connection among computers (B) data compression
(C) Remote communication (D) Error correction
20. Which of the following physical communication channels gives the best noise protection? (A) Shielded twisted pair cable (B) fiber optic cable
(C) Coaxial cable (D) Unshielded twisted pair cable (E). Wireless
21. Which of the following links require unobstructed view between transmitter and receiver (A) Wireless systems (B) GPS systems (C) Fibre Optics (D) Microwave systems
22. The bandwidth of a communication channel can best be described as
(A) The speed at which the channel transmits data (B) The range of frequencies within which the communication channel can operate (C) The strength of the communication medium (D) the efficiency and effectiveness of the communication medium

23. The coding scheme that is commonly used in IBM mainframes and can represent 256 characters is? (A) ASCII (B) Unicode (C) EBCDIC (D) BCD (E) XS-3 code
24. Having an understanding of what a computer is and how it can be used as a resource is known as? (A) Computer Competency (B) Information Technology (C) Computer Literacy (D) Computer Science (E) Computer Education
25. A person who has a certain amount of experience and/or at least a two-year training in the technical aspects of using computers is known as? (A) Software Engineer (B) Computer Programmer (C) Computer Professional (D) Systems Analyst (E) Computer Scientist
26. Applying your skill with computers to meet your information needs and improve your productivity is called? (A) Computer Competency (B) Information Technology (C) Computer Literacy (D) Computer Science (E) Computer Education
27. Which of the following statement is not correct?
 (A) The word digit originally referred to the fingers people used to count with
 (B) One of the main characteristics of a computer is its digital nature
 (C) Examples of digital devices are humidity recorders and pressure sensors
 (D) Nonvolatile means data is not lost when power is turned off
 (E) The CPU controls and manipulates data to produce information
28. Software that performs tasks to directly benefit or assist the user is known as?
 (A) Applications Software (B) Systems Software (C) Control Software (D) Programming Software (E) Software Package
29. Which of the following is not a type of personal computer (A) Tower systems (B) Work stations (C) laptops (D) Palmtop (E) mobile phones
30. _____ has evolved to become what we know today as the internet (A) Telnet (B) Intranet (C) world wide web (D) ARPAnet (E) Wide Area Networks
31. $(16546)_8 =$ _____ in binary? (A) 111101100110 (B) 1110101100110 (C) 1101011010010 (D) 1101011100110 (E) 101110110011
32. Which of the following set of software will help to tell the computer where and how to store and retrieve data used during the processing?
 (A) Applications Software (B) Systems Software (C) Control Software (D) Programming Software (E) Software Package
33. _____ is a binary programming language that the computer can run directly.
 (A) Assembly (B) High level (C) BITS (D) Machine (E) Zigabyte
34. 1 million gigabytes is normally referred to as a? (A) Zigabyte (B) Terabyte (C) Petabyte (D) Quadbyte (E) Millabyte
35. The following are valid domain names except (A) net (B) gov (C) dom (D) biz (E) org
36. Breaking data into packets that the internet can handle efficiently, verifying that all packets have arrived at their destination and reassembling packets into data are functions of _____ (A) Internet Protocol (B) Transmission Control Protocol (C) File Transfer Protocol (D) HTTP (E) Telnet
37. This language was considered a successor of Pascal and is used for developing systems software. (A) Oberon (B) MODULA-2 (C) SmallTalk (D) LISP (E) ALGOL
38. Defining the tracks and sectors on a disk and preparing it so that the operating system can write information to it is known as? (A) Booting (B) Formatting (C) Backup (D) Initializing (E) Defragmentation
39. Converting the number 782_{10} to its base 7 equivalent would give? (A) 2056

- (B). 22114₇ (C). 3165₇ (D). 2165₇ (E). 1056₇
40. The use of magnetic disks for secondary storage became widespread during which computer generation? (A). 1st (B). 2nd (C). 3rd (D). 4th (E). 5th
41. Removable magnetic disk packs were introduced as storage devices during which computer generation? (A). 1st (B). 2nd (C). 3rd (D). 4th (E). 5th
42. Data transmission from a PC's processor to a printer is an example of
 (A) Parallel transmission (B) full duplex transmission (C) Serial transmission (D) half duplex transmission (E). Simplex
43. Concentrators and front end processors are examples of devices used to achieve
 (A) Multiplexing (B) modulation (C) handshaking (D) none of the above
44. Which of the following protocols is used to transfer web files (A) http (B) ftp (C) telnet (D) web protocol (E). tcp
45. _____ is an interconnected system of sites on the internet that store information in multimedia form. (A) web site (B) world wide web (C) web browser (D) URL
47. Which of the following is a protocol for controlling remote log on (A) http (B) ftp (C) telnet (D) DNS (E). tcp
48. The collective name given to the set of software that aids the user and the programmer in writing programs, developing applications software and performing some special hardware/software functions related to programming is? (A). Utility programs (B). Programming Languages (C). Language Translators (D). Editors (E). Programming tools
49. Which of the following terms appropriately describes fourth generation computers?
 (A). Large Scale Integration Circuits (B). Microprocessor (C). Vacuum tubes (D). Magnetic Tape (E). Miniaturization
50. Software acquired to perform a general business function is often referred to as?
 (A) Applications Software (B). Systems Software (C). Control Software (D). Programming Software (E). Software Package
50. Adding 313₄ and 230₄ would result in? (A). 2213₄ (B). 203₄ (C). 1103₄ (D). 1203₄ (E). 1002₄