LATE 11/8/19

#09

School of Computing and Information Technologies

PROGCON - CHAPTER 1

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CLASS NUMBER: 09

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SECTION: TM181

DATE: 11/8/19

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PART 1: Identify the following.

Computer system 1. A combination of all the components required to process and store data using a computer.
Hardware 2. The equipment or physical devices that are associated with a computer.
Software 3. The computer instructions that tell the hardware what to do.
programs 4. The instruction sets written by programmers.
Application software 5. A type of software such as word processing, spreadsheets, payroll and inventory, even games
Syntax error 6. Errors in language or grammar.
System software 7. Software such as operating systems like Windows, Linux, or UNIX
Input 8. Describes the entry of data items into computer memory using hardware devices such as keyboards and mice.
Input symbol 9. Indicates an input operation and is represented by a parallelogram in flowcharts.
Output/input operation 10. Represented by a parallelogram in flowcharts.
Processing 11. May involve organizing them, checking them for accuracy, or performing calculations with them. processing data items
processing symbol 12. Indicates a processing operation and is represented by a rectangle in flowcharts.
CPU (central processing unit) 13. The hardware component that processes data.
Output 14. Describes the operation of retrieving information from memory and sending it to a device, such as a monitor or printer, so people can view, interpret, and use the results.
Output symbol 15. Indicates an output operation and is represented by a parallelogram in flowcharts.
programming language 16. Used to write computer instructions called program code; used to write programs.
programming language 17. Also includes languages such as Visual Basic, C#, C++, Java.
Syntax 18. Grammar rules of a language.
syntax errors 19. Errors in language or grammar.
RAM (random access memory) 20. The temporary, internal storage within a computer. computer memory
volatile memory 21. Describes storage whose contents are retained when power is lost. nonvolatile
Complier 22. Translates a high-level language into machine language and tells you if you have used a programming language incorrectly.
Logical errors 23. Errors in program logic produce incorrect output
variable 24. A named memory location whose value can vary.
User(s) end users 25. People who benefit from using computer programs.

documentation 26. Consists of all the supporting paperwork for a program.
Algorithms 27. The sequence of steps necessary to solve any problem.
desk - checking 28. The process of walking through a program's logic on paper.
coding the program 29. The act of writing programming language instructions.
logical error 30. When instructions are performed in the wrong order, too many times, or not at all.
logical errors 31. Errors in program logic produce incorrect output
Test 32. Execute the program with some sample data to see whether the results are logically correct
debugging 33. What is the process of finding and correcting program errors?
conversion 34. The entire set of actions an organization must take to switch over to using a new program or set of programs
maintenance 35. Consists of all the improvements and corrections made to a program after it is in production.

PART 2: Enumeration

a. 3 major components of a computer system?
b. 3 major computer hardware operations.
c. 4 most common planning tools.
d. 3 most common flowchart symbols.
e. 7 steps on a program development life cycle.

A. 1. hardware
system software 2. soft ware
3. application software

B. 1. input
2. processing
3. output

C. 1. flowcharts
2. pseudocodes
3. IPO charts (input, process, output)
4. HIPO charts (tasks, objects, events)

D. 1. parallelogram / input & output symbol
2. rectangle / process symbol
3. oval / start & stop symbols

E. 1. understand the problem
2. plan the logic
3. code the program
4. use software (compiler / interpreter) to translate the program into machine language
5. test the program
6. put the program into production
7. maintain the program