

Effort by Virtualian Girls

CS101-INTRODUCTION TO COMPUTING

Updated syllabus MCQs

1) Programs for modern computers consist of sequences of instructions that are encoded as _____

- a) mnemonic digits.
- ☒ b) numeric digits.
- c) both a & b
- d) programming language.

2) Location & correction of errors is known as _____

- ☒ a) debugging.
- b) defaulter
- c) identification.
- d) Correction.

3) In Machine language

Date: _____

4) The instructions move the contents of register 5 to register 6 would be expressed —

- a) 3056 E
- b) MOV R5, R6
- ☒ c) 4056
- d) LD R5, 6.

4) Identifiers are :

- a) Price
- (b) shipping charge
- c) Total cost
- ☒ d) all.

5) The efficiency of assembler was:

- a) it redirects programs.
- ☒ b) it converts mnemonic expression to machine language.
- c) it converts machine language program to mnemonic expression.
- d) all of the above.

6) A mnemonic system for representing programs is called as

- a) Machine language
- ☒ b) Assembly language
- c) Computer language.

7) 2nd generation language were

- ☒ a) Assembly
- b) Machine
- c) programming
- d) developing.

8) A program written in assembly language is machine :

- a) independent
- b) producer
- ☒ c) dependent
- d) both a & c.

9) Early example of 3rd generation language was:

- a) FORTRAN
- b) C++
- c) COBOL
- ☒ d) both a & c.

10) Third generation languages differed from previous one in that their primitives were:

- a) high level
- b) low level
- c) machine independent and low level
- ☒ d) machine independent & high level.

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11) A program that often had to compile instructions into short sequences to simulate the activity is called:

- a) translator
- ☒ b) compiler
- c) modifier
- d) both a & b.

12) _____ are the alternatives to translators.

- ☒ a) interpreters
- b) compiler
- c) implementors
- d) resistors.

13) _____ is the developer of 1st compiler.

- a) Charles Babbage.
- ☒ b) Grace Hopper.
- c) Stephen George.
- d) Thomas Hills.

14) English, German & Latin are known as _____ languages

- a) formal
- b) modern
- ☒ c) natural
- d) liberal.

15) A program written in _____ generation language could be used on any machine.

- a) 4th
- ☒ b) 3rd
- c) 2nd
- d) 1st

16) To move a program from one machine to another _____ is necessary to be made.

- a) Alteration
- b) Substitution
- c) Major modifications.
- ☒ d) Minor modifications.

17) The imperative paradigm is also known as _____

- ☒ a) Procedural paradigm
- b) Programming paradigm
- c) Software development.
- d) none of the above.

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18) Python & pseudocode are based on _____ paradigm

- a) Procedural
- b) imperative
- c) programming
- ☒ d) both a & b.

19) Declarative programming languages are intended to be _____

- a) in-built purpose.
- ☒ b) special purpose.
- c) official purpose.
- d) both b & c.

RLS

20) Under this paradigm, a program is viewed as an entity that accepts inputs & produces outputs.

- a) declarative
- b) imperative
- ☒ c) functional
- d) object oriented.

(8)

Date: _____

- 21) Most prominent paradigm in today's software development is:
- ☒ a) Object oriented
 - b) functional
 - c) declarative
 - d) both b & c.

- 22) Follow OOP, software system is viewed as a collection of units called:
- a) cells
 - ☒ b) objects
 - c) species
 - d) bars.

- 23) 'Class' is the description of
- ☒ a) properties
 - b) relations
 - c) associations
 - d) characters.

- 24) An object based on particular class is said to be of that class.
- a) model
 - ☒ b) instance
 - c) example
 - d) both a & b.

RLS

(9)

Date: _____

- 25) The type integer refers to numeric data stored by using 1's complement
- a) true
 - ☒ b) false.

- 26) The type Boolean refers to data items that can take on only the values.
- a) true
 - b) false
 - c) true and false.
 - ☒ d) true or false.

(10)

Topics : 117-132

Date: 05/08/2020

1) Conceptual shape or arrangement of data is called data structure.

- ✓ a) True
- b) False.

2) Text is normally viewed as a long _____ of characters.

- a) chain
- b) sequence
- ✓ c) string
- d) series

3) In rectangular table of sale record, sales made by a particular employee are represented by :

- a) diagonal
- ✓ b) row
- c) column
- d) both b & c.

(11)

Date: _____

4) Heterogenous array is a set of data in which different elements can have different values.

a) True ☒ b) False

5) The most basic imperative statement is _____ statement.

a) structure b) programming
c) final ☒ d) assignment

6) The statement $Z = X + Y$ in C languages require that:

a) Sum of X & Y is greater.
b) Sum of X & Y assigned to variable.

☒ c) Sum of X & Y assigned to Z .
d) Sum of X & Y be smaller.

12

Date: _____

7) A control statement alters the execution structure of program.

a) true

✓ b) false.

8) True parallel processing requires _____ CPU cores.

a) single

b) double

✓ c) multiple

d) both a & b.

9) What we informally referred to as an activation is called a _____ in the Ada ~~and~~ vernacular and a _____ in Java.

✓ a) task, thread

b) thread, string

c) task, string

d) thread, task.

10) Most basic action expressed in a program involving parallel processing is that of _____

- a) Creating new spreadsheet.
- ☒ b) Creating new threads.
- c) Creating new tasks.
- d) Creating new models.

11) More complex issue with parallel processing involves handling communications b/w _____

- a) programs
- b) tasks
- c) models
- ☒ d) threads.

12) Which of the following is not an arithmetic operators.

- a) +
- b) %
- ☒ c) !
- d) -

(14)

13) When both operands Date: _____

are integers then '/' would truncate the decimal point & $5/2$ would result into _____

- a) 2.5 b) 0.25
c) 2.0 ✓ d) 2

14) $5 \% 2$ would give _____

- ✓ a) 1 b) 2
c) 3 d) 4

15) C++ Relational Operators are used to compare values of more than two variables.

- a) True ✓ b) False

16) If we want to compare more than 1 ~~seq~~ condition is used.

- a) C++ Relational operators
b) Java operators
✓ c) C - logical operators.

(15)

17) '!' symbol represents _____ operator.

Date: _____

a) AND

b) OR

c) XOR

☒ d) NOT.

18) _____ operator gives inverted output.

a) AND

☒ b) NOT

c) OR

d) XOR

19) Life cycle of software shows that once it is developed, it enters a cycle of being —

a) used & re-used

☒ b) used & maintained

c) used & destroyed

d) none

20) Major steps in traditional software development life cycle are.

a) 1

b) 2

c) 3

☒ d) 4

21) Internal structure of Date: _____

Software system is established in _____

- a) analysis phase
- ✓ b) design phase
- c) implementation phase
- d) Testing phase

22) _____ is a person involved primarily with implementation step

- a) programmer
- (b) software analyst

(17)

Topic 133-142.

Date: 07/08/2020.

1) An example of throwaway prototyping is

- a) evolutionary prototyping
- ✓ b) rapid prototyping.

2) A less formal incarnation of incremental & iterative ideas is known as :

- a) Valid source development.
- b) extreme source development
- ✓ c) Open Source development
- d) None

3) XP stands for :

- a) exerting point.
- b) exert programming
- ✓ c) extreme programming.
- d) None.

(18)

4) Following XP model,

Date: _____

software is developed by a team of _____ than dozen individuals

- ☒ a) less b) more
c) both a & b d) none.

5) Division of software into manageable units is called:

- a) modularity b) strings
c) threads ☒ d) modules.

6) Modules come in a variety of forms.

- ☒ a) true b) false.

7) The object-oriented paradigm uses _____ as basic modular constituents.

- a) functions
☒ b) objects

(19)

Date: _____

8) Maximizing the

Linkage b/w modules is known as intermodule coupling.

- a) True ☒ b) False.

9) Intermodule coupling occurs in _____ forms.

- a) many b) two
c) four ☒ d) several.

10) Data coupling b/w functions occurs in _____ forms.

- ☒ a) two b) more than two
c) less than two d) none.

11) Global data is a way of passing data

- a) explicitly ☒ b) implicitly.

12) Degree of relatedness of modules internal parts is called:

(20)

13) Weak form of

Date: _____

cohesion is called logical cohesion.

- ✓ a) true b) false.

14) Java Programming environment is accompanied by :

- a) Framework Class Library.
b) Standard Template Library.
✓ c) Application Programmers Interface.

15) ^{Reusable} ~~Reusable~~ unit of software.

- ✓ a) component
b) compiler
c) identifier.

16) A design pattern is a pre-developed model for solving re-curring problem in software design.

- ✓ a) true
b) false.

(21)

17) Java programming Date: _____
environments provided by _____
& the NET framework
provided by _____

- a) NET, Oracle.
- b) Oracle, Java.
- c) Microsoft, Oracle
- ✓ d) Oracle, Microsoft.

18) The origins of design pattern
lie in the research of
_____ in traditional architecture

- a) John Ales.
- b) Thomas Edison.
- ✓ c) Christopher Alexander
- d) Charles Thomas.

19) _____ design is not used
when you have only one
product to sell.

- a) Factory design pattern.
- ✓ b) shopping Cart design pattern.

(22)

20) _____ refers to

Date: _____

tests that do not rely on knowledge of software's interior composition.

- a) basic path testing
- b) glass-box testing
- ☒ c) black-box testing
- d) beta testing.

(23)

Topic : 143-153

Date: 08/08/2020

1) Which of the following is not a category of documentation?

- a) User documentation
- b) System "
- ✓ c) Application "
- d) Technical "

2) To describe software's internal composition is the purpose of _____ documentation.

- a) User
- ✓ b) System
- c) technical
- d) application

3) Information that _____ the chance that changes made during maintenance will disrupt integrity of system.

- a) increases
- b) decreases.
- c) enhances.
- ✓ d) reduces.

(24)

4) A human tends to Date: _____

view a system in terms of its _____

- a) internal parts
- ☒ b) usability.
- c) cleverness
- d) operation

5) _____ can be determining factor in success or failure of a software project.

- ☒ a) Design of system's interface.
- b) working " " "
- c) productivity " " "
- d) both a & b.

6) Cognetics ~~that~~ deals with designing systems that harmonize with physical abilities of humans.

- a) true
- ☒ b) false.

(25)

7) In _____, commercial Date: _____

aircraft crashed because pilots became absorbed with landing gear problems.

- a) 1871 b) 1872
☒ c) 1971 d) 1972

8) According to George Miller's research, human mind is capable of dealing with only about _____ points.

- a) five ☒ b) seven
c) nine d) eleven

9) The GOMS model originally introduced in _____

- a) 1950 ~~a) 1952~~
☒ c) 1954 d) 1956

10) A copyright notice does not identifies ownership.

- a) true ☒ b) false

(26)

10) _____ Laws established ^{Date: _____}

to ~~develop~~ allow inventors to benefit commercially from an investment.

- a) Property b) ownership
✓ c) patent d) both b & c.

11) A one-dimensional array with _____ elements used to store no. of times alphabet letter occur in a page.

- ✓ a) 26 b) 27
c) 29 d) 32.

12) _____ a block of data items that might be of different types & sizes

- a) aggregate sequence.
b) aggregate data
c) aggregate block
✓ d) aggregate type.

(27)

13) The items within Date: _____

block are actually called _____

- a) objects ☒ b) fields
c) coins d) arrays.

14) A stack is a list in which entries are inserted and removed only at the tail.

- a) true ☒ b) false.

15) Removing an entry from top of stack is called _____

- a) pushing b) planning
☒ c) popping d) both a & b

16) A queue is example of _____

- ☒ a) FIFO (b) LIFO.

17) Each position in a tree is called a _____

- a) branch b) stem
☒ c) node d) point.

(28)

18) Depth of a tree is Date: _____
the no. of _____ layers
within it. ~~layers~~

- a) Vertical b) non-parallel
c) parallel ☒ d) horizontal

19) The node at the base
is called the root node.

- a) True ☒ b) false.

20) Flat file is _____ dimensional
storage system.

- ☒ a) one b) two
c) multidimensional d) none.

21)

