

S.D.E.

M.C.A. Sem - VI : WINTER - 2018

SUBJECT : COMPREHENSIVE EXAMINATION (OBJECTIVE TYPE)

Day : Saturday  
Date : 01/12/2018

Time : 02.00 PM TO 05.00 PM  
Max. Marks : 100

W-2018-4829

N.B.:

- 1) All questions are **COMPLOSRY**.
- 2) Each question carries **TWO** marks.

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- Q.1 Which among following is Volatile Memory?
- a) ROM
  - b) EPROM
  - c) DROM
  - d) None of these
- Q.2 A collection of lines that connects several devices is called \_\_\_\_\_.
- a) Bus
  - b) Peripheral connection wires
  - c) Applications
  - d) None of these
- Q.3 Which register is memory pointer?
- a) Source index
  - b) Instruction register
  - c) Stack pointer
  - d) None of these
- Q.4 The performance of the cache memory is measured in terms of \_\_\_\_\_.
- a) Hit Ratio
  - b) Chat Ratio
  - c) Copy Ratio
  - d) None of these
- Q.5 Program Counter is also called \_\_\_\_\_.
- a) Instruction pointer
  - b) Memory pointer
  - c) Data counter
  - d) None of these
- Q.6 All the operations in a digital system are synchronized by a clock that is generated by \_\_\_\_\_.
- a) Clock
  - b) Clock generator
  - c) Pulse
  - d) None of these
- Q.7 Which of these is the Worst-case time complexity of Quick Sort and cannot be expressed in lower order terms?
- a)  $O(n)$
  - b)  $O(n \log n)$
  - c)  $O(n^2)$
  - d) None of these
- Q.8 Which of the following data structures is not linear data structure?
- a) Arrays
  - b) Linked lists
  - c) Trees
  - d) None of these
- Q.9 Which of these is the average case time complexity of Merge Sort and cannot be expressed in lower order terms?
- a)  $O(n)$
  - b)  $O(n \log n)$
  - c)  $O(n^2)$
  - d) None of these
- Q.10 The disadvantage in using a circular linked list is \_\_\_\_\_.
- a) It is possible to get into infinite loop
  - b) Last node points to first node
  - c) Time consuming
  - d) None of these

P.T.O.

- Q.11** Which of these is the time complexity involved in building a heap of  $n$  elements and cannot be expressed in lower order terms?
- a)  $O(n)$
  - b)  $O(n \log n)$
  - c)  $O(n^2)$
  - d) None of these
- Q.12** Which of these is the worst case time complexity of Merge Sort and cannot be expressed in lower order terms?
- a)  $O(n)$
  - b)  $O(n \log n)$
  - c)  $O(n^2)$
  - d) None of these
- Q.13** Ethernet system uses which of the following technology?
- a) Bus
  - b) Ring
  - c) Star
  - d) None of these
- Q.14** FTP stands for \_\_\_\_\_.
- a) File transfer protocol
  - b) File transmission protocol
  - c) Form transfer protocol
  - d) None of these
- Q.15** The computer network is \_\_\_\_\_.
- a) Network computer with cable
  - b) Network computer without cable
  - c) Conceptual
  - d) None of these
- Q.16** FDDI uses which type of physical topology \_\_\_\_\_.
- a) Bus
  - b) Ring
  - c) Star
  - d) None of these
- Q.17** Which of the following is an application layer service?
- a) Network virtual terminal
  - b) File transfer, access and management
  - c) Mail service
  - d) None of these
- Q.18** If all devices are connected to a central hub, then topology is called \_\_\_\_\_.
- a) Bus Topology
  - b) Ring Topology
  - c) Star Topology
  - d) None of these
- Q.19** FDDI stands for \_\_\_\_\_.
- a) Fiber Distributed Data Interface
  - b) Fiber Data Distributed Interface
  - c) Fiber Dual Distributed Interface
  - d) None of these
- Q.20** The \_\_\_\_\_ layer change bits into electromagnetic signals.
- a) Physical
  - b) Transport
  - c) Data link
  - d) None of these
- Q.21** Main function of shared memory is \_\_\_\_\_.
- a) to use primary memory efficiently
  - b) to do intra process communication
  - c) to do inter process communication
  - d) None of these
- Q.22** Disk scheduling includes deciding \_\_\_\_\_.
- a) Which should be accessed next
  - b) Order in which disk access requests must be serviced
  - c) The physical location of the file
  - d) None of these
- Q.23** Which of the following is not a multitasking operating system?
- a) Windows
  - b) Linux
  - c) Windows NT
  - d) None of these

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- Q.24** Memory protection is normally done by \_\_\_\_\_.
- a) The processor and the associated hardware
  - b) The operating system
  - c) The compiler
  - d) None of these
- Q.25** If the displayed system time and date is wrong. You can reset it using \_\_\_\_\_.
- a) Write
  - b) Calendar
  - c) Write file
  - d) None of these
- Q.26** Software project manager is engaged with software management activities. He is responsible for \_\_\_\_\_.
- a) Project planning
  - b) Communication among stakeholders
  - c) Monitoring the progress
  - d) All of above
- Q.27** Which quality deals with maintaining the quality of the software product?
- a) Quality assurance
  - b) Quality control
  - c) Quality efficiency
  - d) None of these
- Q.28** Post implementation review is \_\_\_\_\_.
- a) Reviewing the risk baseline
  - b) Reviewing the impact on customers
  - c) Reviewing the traceability matrix
  - d) None of these
- Q.29** When elements of module are grouped because the output of one element serves as input to another element and so on, it is called \_\_\_\_\_.
- a) Functional Cohesion
  - b) Communicational Cohesion
  - c) Sequential Cohesion
  - d) None of these
- Q.30** The break statement causes an exit \_\_\_\_\_.
- a) From the innermost loop only
  - b) Only from the innermost switch
  - c) From all loops and switches
  - d) None of these
- Q.31** Which of the following is a design tool?
- a) Simple SUMO
  - b) Rational rose
  - c) Rhapsody
  - d) None of these
- Q.32** Which of the following data structures is linear type?
- a) Strings
  - b) Lists
  - c) Queues
  - d) None of these
- Q.33** Which of the following is true?
- a) Block cipher technique is an encryption technique.
  - b) Steam cipher technique is an encryption technique.
  - c) Both (A) and (B).
  - d) Neither of (A) and (B)
- Q.34** Which of the following main feature is needed to implement top down parsing ?
- a) Source string marker
  - b) Prediction making mechanism
  - c) Matching and back tracking mechanism
  - d) None of these
- Q.35** A parser, which is a variant of top-down parsing without backtracking is \_\_\_\_\_.
- a) Recursive Descend
  - b) Operator Precedence
  - c) LL (1) parser
  - d) None of these

P.T.O.

- Q.36** One of the fault base testing technique is \_\_\_\_\_.
- a) Unit testing
  - b) Beta testing
  - c) Stress testing
  - d) None of these
- Q.37** Which among the following interacts directly with system hardware?
- a) Shell
  - b) Commands
  - c) Kernel
  - d) None of these
- Q.38** Applications communicate with kernel by using \_\_\_\_\_.
- a) System Calls
  - b) C Programs
  - c) Shell Script
  - d) None of these
- Q.39** Proc file system provides the information about \_\_\_\_\_.
- a) Processes
  - b) Processor
  - c) Proxy server
  - d) None of these
- Q.40** The / proc directory contains \_\_\_\_\_.
- a) Numerical sub-directory for each running process.
  - b) Sub-directories for installed buses.
  - c) A text listing of file systems which are supported by the kernel.
  - d) All of the mentioned.
- Q.41** Which one of the following file contains the environment for the process?
- a) /proc/[PID]/environ
  - b) /proc/[PID]/path
  - c) /proc/[PID]/env
  - d) None of these
- Q.42** Which of the following name does not relate to stack?
- a) FIFO List
  - b) LIFO List
  - c) Files
  - d) None of these
- Q.43** Standard ANSI C recognizes \_\_\_\_\_ number of keywords.
- a) 30
  - b) 32
  - c) 24
  - d) None of these
- Q.44** What will be printed after execution of the following program code?
- ```
main ( )
{
Printf(\\nab);
Printf(\\bsi);
Printf(\\rha);
}
```
- a) absiha
  - b) assiha
  - c) haasi
  - d) None of these
- Q.45** What is the output of this C code?
- ```
#include <stdio.h>
main ( )
{
int n = 0, m = 0;
if (n > 0)
if (m > 0)
printf(“True”);
else
printf(“False”);
}
```
- a) True
  - b) False
  - c) No output will be printed
  - d) Run Time Error

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- Q.46** At \_\_\_\_\_, where the model becomes compatible executable code.
- a) Abstract level
  - b) Application level
  - c) Implementation level
  - d) None of these
- Q.47** \_\_\_\_\_ is not the component of data structure.
- a) Operations
  - b) Storage structures
  - c) Algorithm
  - d) None of these
- Q.48** \_\_\_\_\_ is very useful in situation when data have to be stored and then retrieved in reverse order.
- a) Stack
  - b) Queue
  - c) List
  - d) None of the above
- Q.49** C language is of following type \_\_\_\_\_.
- a) Structured programming
  - b) Object oriented programming
  - c) Embedded programming
  - d) None of the above
- Q.50** In C programming, following escape sequence is used for new line \_\_\_\_\_.
- a) \t
  - b) \n
  - c) \s
  - d) None of the above

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