

10 Important MCQ For IBPS IT Officer Mains Exam 2018

1)Which of the following cables is also known as a Ethernet Cable?

- a)CAT 1
- b)CAT 2
- c)CAT 4
- d)CAT 5
- e)CAT 5

2)Name the location where the operands of zero address instruction method get stored.

- a)Accumulators
- b)Registers
- c)Push Down Stack
- d)Cache
- e)None of these

3)The physical address can be retrieved from the logical address provided by CPU by using

- a)TLB
- b)MAR
- c)MMU
- d)Overlays
- e)None of these

4)Two cellphones can transfer data to each other using Bluetooth technology.Which type of network they establish to transfer data?

- a)WAN
- b)PAN
- c)MAN
- d)LAN
- e)None of these

5)A software that is used to convert high level language into machine language is known as a/an...

- a)Compiler
- b)Interpreter
- c)Assembler
- d)Both 2 and 3
- e)None of these

6)Which of the following language is a client-side scripting language?

- a)Javascript
- b)C++
- c)C
- d)C#
- e)Java

7)Which of the following files are created by websites on a user's computer to recognise him/her on revisits?

- a)Cookies
- b>Kitkat
- c)Marshmallow
- d)Lollipop
- e)None of these

8)Which of the following connectors is used as a phone connectors?

- a)RJ 11
- b)RJ 10
- c)RJ 45
- d)RJ 41
- e)RJ 30

9)Which type of data structure is used to represent internal storage of data in RDBMS efficiently?

- a)Linked List
- b)B+ Tree
- c)Circular Queues
- d)Stack

e)None of these

10)Whenever an interrupt is detected by CPU,which of the following action is taken by it?

- a)Completes it
- b)Discards it
- c)Depends on CPU
- d)Saves it
- e)None of these

Answers:

- 1)a
- 2)c
- 3)c
- 4)b
- 5)a
- 6)a
- 7)a
- 8)a
- 9)b
- 10)d

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1)When a web page is loading, and the user presses a button on the browser to stop loading the page :

- a) the thread loading the page continues with the loading
- b) the thread loading the page does not stop, but continues with another task
- c) the thread loading the page is paused

- d) the thread loading the page is cancelled
- e) None of these

2) When one thread immediately terminates the target thread, it is called :

- a) Asynchronous cancellation
- b) Systematic cancellation
- c) Sudden Termination
- d) Deferred cancellation
- e) None of these

3) When the target thread periodically checks if it should terminate and terminates itself in an orderly manner, it is called :

- a) Asynchronous cancellation
- b) Systematic cancellation
- c) Sudden Termination
- d) Deferred cancellation
- e) None of these

4) The wait operation of the semaphore basically works on the basic _____ system call.

- a) stop()
- b) block()
- c) hold()
- d) wait()
- e) None of these

5) The signal operation of the semaphore basically works on the basic _____ system call.

- a) continue()
- b) wakeup()
- c) getup()
- d) start()
- e) None of these

6) The interrupt vector contains :

- a) the interrupts

- b) the memory addresses of specialized interrupt handlers
- c) the identifiers of interrupts
- d) the device addresses
- e) None of these

7) An absolute path name begins at the :

- a) leaf
- b) stem
- c) current directory
- d) root
- e) None of these

8) A relative path name begins at the :

- a) leaf
- b) stem
- c) current directory
- d) root
- e) None of these

9) When two users keep a subdirectory in their own directories, the structure being referred to is :

- a) tree structure
- b) cyclic graph directory structure
- c) two level directory structure
- d) acyclic graph directory
- e) None of these

10) Many systems recognize three classifications of users in connection with each file (to condense the access control list) :

- a) Owner
- b) Group
- c) Universe
- d) All of the mentioned
- e) None of these

Answers:

- 1)d
 - 2)a
 - 3)d
 - 4)b
 - 5)b
 - 6)b
 - 7)d
 - 8)c
 - 9)d
 - 10)d
-

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1)The two dimensions of spiral model are

- a) diagonal, angular
- b) radial, perpendicular
- c) radial, angular
- d) diagonal, perpendicular
- e) None of these

2)The Incremental Model is combination of elements of

- a) Build & FIX Model & Waterfall Model
- b) Linear Model & RAD Model
- c) Linear Model & Prototyping Model
- d) Waterfall Model & RAD Model
- e) None of these

3)Model preferred to create client/server applications is

- a) WINWIN Spiral Model
- b) Concurrent Model
- c) Spiral Model
- d) Incremental Model
- e) None of these

4)Spiral model was developed by

- a) Victor Bisili
- b) Berry Boehm
- c) Bev Littlewood
- d) Roger Pressman
- e) None of these

5)Software evolution does not comprises:

- a) Development activities
- b) Negotiating with client
- c) Maintenance activities
- d) Re-engineering activities
- e) None of these

6)Which technique is applied to ensure the continued evolution of legacy systems ?

- a) Forward engineering
- b) Reverse Engineering
- c) Reengineering
- d) Reverse Engineering and Reengineering
- e) None of these

7)Program modularization and Source code translation are the activities of _____

- a) Forward engineering
- b) Reverse Engineering
- c) Reengineering
- d) Reverse Engineering and Reengineering
- e) None of these

8)What type of fault remains in the system for some period and then disappears?

- a) Permanent
- b) Transient
- c) Intermittent
- d) All of the mentioned
- e)None of these

9)Which of the following approaches are used to achieve reliable systems?

- a) Fault prevention
- b) Fault removal
- c) Fault tolerance
- d) All of the mentioned
- e) None of these

10)Which of the following Error Detection checks is not a part of Application detection?

- a) Hardware checks
- b) Timing checks
- c) Reversal checks
- d) Coding checks
- e) None of these

Answers:

- 1)c
- 2)c
- 3)b
- 4)b
- 5)b

- 6)d
 - 7)c
 - 8)b
 - 9)d
 - 10)a
-

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1) The Unified Modeling Language (UML) has become an effective standard for software modelling. How many different notations does it have ?

- a) Three
- b) Four
- c) Six
- d) Nine
- e) None of these

2) Which model in system modelling depicts the dynamic behaviour of the system ?

- a) Context Model
- b) Behavioral Model
- c) Data Model
- d) Object Model
- e) None of these

3) Which model in system modelling depicts the static nature of the system ?

- a) Behavioral Model
- b) Context Model
- c) Data Model
- d) Structural Model

e) None of these

4) Which perspective in system modelling shows the system or data architecture.

- a) Structural perspective
- b) Behavioral perspective
- c) External perspective
- d) All of the mentioned
- e) None of these

5) The UML supports event-based modeling using _____ diagrams.

- a) Deployment
- b) Collaboration
- c) State chart
- d) All of the mentioned
- e) None of these

6) Which of the following term is best define by the statement:"For a component to be composable, all external interactions must take place through publicly defined interfaces"?

- a) Standardized
- b) Independent
- c) Composable
- d) Documented
- e) None of these

7) A component model defines standards for

- a) properties
- b) methods
- c) mechanisms
- d) all of the mentioned
- e) None of these

8) A _____ defines a set of standards for components, including interface standards, usage standards, and deployment standards.

- a) Component-based software engineering
- b) Component composition
- c) Component model
- d) Component interfaces
- e) None of these

9) Which one of the following is a requirement that fits in a developer's module ?

- a) Availability
- b) Testability
- c) Usability
- d) Flexibility
- e) None of these

10) How many classification schemes have been developed for NFRs ?

- a) Two
- b) Three
- c) Four
- d) Five
- e) None of these

Answers:

- 1)d
- 2)b
- 3)d
- 4)a
- 5)c
- 6)c
- 7)d
- 8)c
- 9)b
- 10)d

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1)Void pointer can point to which type of objects?

- a)int
- b)float
- c)double
- d)all of the mentioned
- e)None of these

2)The Knapsack problem is an example of _____

- a)Greedy algorithm
- b)2D dynamic programming
- c)1D dynamic programming
- d)Divide and conquer
- e)None of these

3)Which of the following methods can be used to solve the Knapsack problem?

- a)Brute force algorithm
- b)Recursion
- c)Dynamic programming
- d>All of the mentioned
- e)None of these

4)What is the time complexity of the brute force algorithm used to solve the Knapsack problem?

- a) $O(n)$
- b) $O(n!)$
- c) $O(2n)$
- d) $O(n^3)$
- e)None of these

5)What is the time complexity of the above dynamic programming

implementation of the Knapsack problem with n items and a maximum weight of W?

- a) $O(n)$
- b) $O(n + w)$
- c) $O(nW)$
- d) $O(n^2)$
- e) None of these

6) What is the space complexity of the above dynamic programming implementation of the Knapsack problem?

- a) $O(nW)$
- b) $O(n + w)$
- c) $O(n)$
- d) $O(n^2)$
- e) None of these

7) What is the time complexity of the recursive implementation used to find the nth fibonacci term?

- a) $O(1)$
- b) $O(n^2)$
- c) $O(n!)$
- d) Exponential
- e) None of these

8) Consider the strings "PQRSTPQRS" and "PRATPBRQRPS". What is the length of the longest common subsequence?

- a) 9
- b) 8
- c) 7
- d) 6
- e) None of these

9) Which of the following application makes use of a circular linked list?

- a) Undo operation in a text editor
- b) Recursive function calls
- c) Allocating CPU to resources
- d) All of the mentioned

e)None of these

10)Binary Decision Diagram is a type of _____

- a)Multigraph
- b)Cyclic Graph
- c)Directed Acyclic Graph
- d)Directed Acyclic Word Graph
- e)None of these

Answers:

- 1)d
- 2)b
- 3)d
- 4)c
- 5)c
- 6)a
- 7)d
- 8)c
- 9)c
- 10)c

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1)Java packages and Fortran subroutine are examples of _____

- a)Functions
- b)Modules
- c)Classes
- d)Sub procedures
- e)None of these

2) Which of the property of software modularity is incorrect with respect to benefits software modularity?

- a) Modules are robust
- b) Module can use other modules
- c) Modules Can be separately compiled and stored in a library
- d) Modules are mostly dependent
- e) None of these

3) _____ is a measure of the degree of interdependence between modules.

- a) Cohesion
- b) Coupling
- c) Classes
- d) All of the mentioned
- e) None of these

4) Which of the following is the best type of module coupling?

- a) Control Coupling
- b) Stamp Coupling
- c) Data Coupling
- d) Content Coupling
- e) None of these

5) Which of the following is the worst type of module coupling?

- a) Control Coupling
- b) Stamp Coupling
- c) External Coupling
- d) Content Coupling
- e) None of these

6) Which of the following is the worst type of module cohesion?

- a) Logical Cohesion
- b) Temporal Cohesion
- c) Functional Cohesion
- d) Coincidental Cohesion
- e) None of these

7) Which of the following is the best type of module cohesion?

- a)Functional Cohesion
- b)Temporal Cohesion
- c)Functional Cohesion
- d)Sequential Cohesion
- e)None of these

8)In what type of coupling, the complete data structure is passed from one module to another?

- a)Control Coupling
- b)Stamp Coupling
- c)External Coupling
- d)Content Coupling
- e)None of these

9)If all tasks must be executed in the same time-span, what type of cohesion is being exhibited?

- a)Functional Cohesion
- b)Temporal Cohesion
- c)Functional Cohesion
- d)Sequential Cohesion
- e)None of these

10)Quality Management in software engineering is also known as

- a)SQA
- b)SQM
- c)SQI
- d)SQA and SQM
- e)None of these

Answers:

- 1)b
- 2)d
- 3)b
- 4)c
- 5)c
- 6)d

- 7)a
 - 8)b
 - 9)b
 - 10)a
-

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1)Disadvantage of dynamic RAM over static RAM is

- a)Higher power consumption
- b)Variable speed
- c)Need to refresh the capacitor charge every once in two milli second
- d)Lower packing density
- e)None of these

2)What is a hash table?

- a)A structure that maps values to keys
- b)A structure that maps keys to values
- c)A structure used for storage
- d)A structure used to implement stack and queue
- e)None of these

3)If several elements are competing for the same bucket in the hash table, what is it called?

- a)Diffusion
- b)Replication
- c)Collision
- d)Variable
- e)None of these

4)Pancake Sorting appears in which of the following?

- a)Frequency Scaling

- b)Storage Virtualization
- c)Parallel Processing
- d)Neural Networking
- e)None of these

5)When we realize a specific implementation of a pancake algorithm, every move when we find the greatest of the sized array and flipping can be modeled through _____

- a)Combinations
- b)Exponential functions
- c)Logarithmic functions
- d)Permutations
- e)None of these

6)The Pancake Problems (1975, 1979, 1973) did NOT involve which of the following people?

- a)Bill Gates
- b)Jacob Goodman
- c)Christos Papadimitriou
- d)John Goodman
- e)None of these

7)A dynamic RAM consists of

- a)6 transistors
- b)2 transistors and 2 capacitors
- c)1 transistor and 1 capacitor
- d)4 transistors
- e)None of these

8) In a virtual memory system the address space specified by the address lines of the CPU must be ----than the physical memory size and ----than the secondary storage size.

- a)smaller, smaller
- b)larger, larger
- c)smaller, larger
- d)larger, smaller
- e)None of these

9) Which of the following is NOT a Catalan number?

- a) 1
- b) 5
- c) 14
- d) 43
- e) None of these

10) Which of the following methods can be used to find the nth Catalan number?

- a) Recursion
- b) Binomial coefficients
- c) Dynamic programming
- d) All of the mentioned
- e) None of these

Answers:

- 1) c
- 2) b
- 3) c
- 4) c
- 5) d
- 6) d
- 7) c
- 8) d
- 9) d
- 10) d

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Exam 2017

1)Which of these best describes an array?

- a)A data structure that shows a hierarchical behavior
- b)Container of objects of similar types
- c)Container of objects of mixed types
- d)All of the mentioned
- e)None of these

2)Assuming int is of 4 bytes, what is the size of int arr[15];?

- a)15
- b)30
- c)45
- d)60
- e)None of these

3)The amount of uncertainty in a system of symbol is called

- a)Bandwidth
- b)Loss
- c)Entropy
- d)Quantum
- e)None of these

4)Working of the WAH generally involves

- a)telephone lines
- b)micro waves
- c)satellites
- d)all of these
- e)None of these

5)Different computers are connected to a LAN by a cable and

- a)interface card
- b)modem
- c)special wires
- d)telephone lines
- e)None of these

6) Which of the following methods can be used to search an element in a linked list?

- a) Iterative linear search
- b) Iterative binary search
- c) Recursive binary search
- d) All of the mentioned
- e) None of these

7) What is the time complexity of the above implementation of linear search on a linked list?

- a) $O(1)$
- b) $O(n)$
- c) $O(n^2)$
- d) $O(n^3)$
- e) None of these

8) Breadth First Search is equivalent to which of the traversal in the Binary Trees?

- a) Pre-order Traversal
- b) Post-order Traversal
- c) Level-order Traversal
- d) In-order Traversal
- e) None of these

9) Desirable characteristic(s) of a memory system is(are)

- a) Speed and reliability
- b) Low power consumption
- c) Durability and compactness
- d) All of these
- e) None of these

10) Generally , the refreshing rate of dynamic RAMs is approximately once in

- a) Two micro second
- b) Two milli second
- c) Sixty four milli second
- d) Four milli second
- e) None of these

Answers:

1) b

2) d

3) c

4) d

5) a

6) a

7) b

8) c

9) d

10) b