



## Live Leak - SSC Scientific Assistant

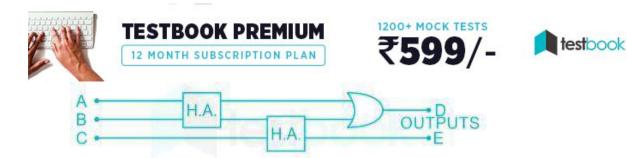
## Model Question Paper for Computer Science & Information Technology 2017

- Q1. Which of the following is not a 16 bit microprocessor?
  - 1. 8086
  - 2. 80286
  - 3. 80386SX
  - 4. Z80
- Q2. Which one of the following stands for RISC?
  - 1. Reduced Instruction Set Computer
  - 2. Remove Instruction Set Computer
  - 3. Remove Instruction Sample Computer
  - 4. Regenerate Instruction Set Computer
- Q3. The smallest integer that can be represented by an 8 bit number in 2's complement form is
  - 1. -256
  - 2. -128
  - 3. 0
  - 4. -127
- Q4. The circuit given below is









Here H.A represents half adder.

- 1. full adder
- 2. full subtractor
- 3. parity checker
- 4. none these
- Q5. Among which of the following interrupts has the highest priority?
  - 1. RST 7.5
  - 2. RST 6.5
  - 3. INTA
  - 4. TRAP
- Q6. The number of digit 1 present in the binary representation of  $3 \times 512 + 7 \times 64 + 5 \times 8 + 3$  is
  - 1. 8
  - 2. 9
  - 3. 10
  - 4. 13

Q7. In comparison with static RAM memory, the dynamic Ram memory has

- 1. Lower bit density and higher power consumption
- 2. Higher bit density and higher power consumption











- 3. Lower bit density and lower power consumption
- 4. Higher bit density and lower power consumption

## Q8. Which of the following justifies the use of "Principle of the locality of reference"?

- 1. Virtual memory
- 2. Interrupts
- 3. Main memory
- 4. Cache memory
- Q9. What is the 2's and 1's complement of -7 respectively?
  - 1. 1000 and 1001
  - 2. 1011 and 1001
  - 3. 1001 and 1000
  - 4. 1111 and 0001
- Q10. MPEG used for
  - 1. Audio
  - 2. Video
  - 3. Audio and Video both
  - 4. All of the above
- Q11. Which of the following use UV light to erase the memory?
  - 1. EEPROM
  - 2. EPROM











- 3. PROM
- 4. None of these
- Q12. Which one of the following is a MAC address?
  - 1. 132.111.299.60
  - 2. 01976A:01A2167A5SAA7LL60
  - 3. 902, El Street
  - 4. 02:A7:CC:A7:EE:70
- Q13. Which is the correct definition of a valid process transition in an operating system?
  - 1. Wake up: running to ready
  - 2. Dispatch: running to ready
  - 3. Interrupt: running to ready
  - 4. Exit: running to ready
- Q14. A page fault
  - 1. Occurs when a program accesses an available page on memory.
  - 2. Is an error in a specific page?
  - 3. Is a reference to a page belonging to another program?
  - 4. Occurs when a program accesses a page not currently in memory.
- Q15. Which of the following scheduling algorithm has the maximum throughput?
  - 1. Round Robin
  - 2. Shortest job first











- 3. Highest response ratio next
- 4. First come first served

## Q16. Banker's algorithm for resource allocation deals with

- 1. Dead lock prevention
- 2. Dead lock avoidance
- 3. Dead lock recovery
- 4. Mutual exclusion
- Q17. Identify the memory allocation in which data is allocated at a place in memory whose size and address are already known at the compile time.
  - 1. Static allocation
  - 2. Dynamic allocation
  - 3. Runtime allocation
  - 4. Manual allocation
- Q18. Which of the following is used to dynamically allocate and de-allocate data structures?
  - 1. Heap
  - 2. Spinner
  - 3. Instance
  - 4. Constructor
- Q19. In which addressing mode, the effectives address of the operand is generated by adding a constant value to the content of a register?











- 1. Absolute mode
- 2. Indirect mode
- 3. Immediate mode
- 4. Index mode
- Q20. Which statement enables the program to skip over some part of the

code?

- 1. break
- 2. void
- 3. printf
- 4. continue
- Q21. Which one of the following is a collection of variables having different

data types under a single name?

- 1. Structure
- 2. Pointer
- 3. Variable
- 4. Union
- Q22. The number N in array A[N] is called \_\_\_\_\_?
  - 1. Variable
  - 2. Index
  - 3. Constant
  - 4. Size















Q23. What is the output of the following c program code?

```
#include<stdio.h>
```

```
int main()
```

```
{
```

float a=4;

int i=2;

printf("%f %d", i/a ,i/a);

return 0;

}

- 1. 0.500000 0.000000
- 2. 0.5 0.5
- 3. 00.50000
- 4. 0.500000
- Q24. A one dimensional array A has indices 1....100. Each element takes up three memory words. The array is stored at location 1200. The starting address of A[50] is
  - 1. 1367
  - 2. 1350
  - 3. 1347
  - 4. 1269

Q25. What will be the output of following program?

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#include<stdio.h>

7	#define scanf "%s testbook"
١	void main()
{	
	<pre>printf(scanf , scanf);</pre>
1.	%s testbook
2.	%s testbook testbook
3.	testbook testbook
4.	testbook

```
Q26. What do you call the concept in which multiple functions or operators are defined with a single name in the same scope?
```

- 1. Overloading
- 2. Overriding
- 3. Overflow
- 4. Operand
- Q27. What will be the output of following program?

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#include<stdio.h>

void main()

{















	printf("%s",getstring());
	}
	char *getstring()
	{
	<pre>char str[] = "print it";</pre>
	return str;
	}
1.	print it
2.	getstring()
3.	Garbage value
4.	None of these
8.	Which of the following is an interpreter of JAVA?
1.	JDK
2.	JRE

3. JVM

Q2

- 4. None of these
- Q29. What is the output of the following program?

#include <stdio.h>

main()











int a , b; a = 10; printf("%d",(a == 1) ? 20: 30 ); printf("%d",(a == 10) ? 20: 30 ); } 1. 2030 2. 3020 3. 3030 4. 2020 Q30. Which join returns us the rows which are common in both the tables? 1. Natural join

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- 2. NON EQUIJOIN
- 3. INNER JOIN
- 4. None of these
- Q31. I in ACID property stands for?
  - 1. Iteartive
  - 2. Irrespective
  - 3. Isolation
  - 4. Independent













- Q32. Which of the following is used to write database schema?
  - 1. DML
  - 2. DDL
  - 3. DCL
  - 4. HLL
- Q33. Which of the following joins execute the Cartesian product?
  - 1. Left outer
  - 2. Right outer
  - 3. Cross join
  - 4. None of the above
- Q34. Which of the following graphical notations is used to describe the data flow between various processes of a system?
  - 1. Data flow diagram
  - 2. Entity relation diagram
  - 3. Data analysis diagram
  - 4. None of these
- Q35. Which of the following statements is NOT correct about HTTP cookies?
  - 1. A cookie is a piece of code that has the potential to compromise the security of an Internet user

GET IT ON Google Play

2. A cookie gains entry to the user's work area through an HTTP header

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3. A cookie has an expiry date and time











- 4. Cookies can be used to track the browsing pattern of a user at a particular site
- Q36. Which of the following subnet masks is best suited for the subnet network having 5 subnets and each subnet having at least 16 hosts?
  - 1. 255.255.255.240
  - 2. 255.255.255.224
  - 3. 255.255.255.192
  - 4. 255.255.255.111
- Q37. In tunnel mode, IPsec provides protection to the \_\_\_\_\_
  - 1. Entire IP packet
  - 2. IP header
  - 3. IP payload
  - 4. SSL

Q38. Which one of the following is the second highest layer in the OSI model?

- 1. Session layer
- 2. Presentation layer
- 3. Transport layer
- 4. Application layer
- Q39. HTTPS refers to
  - 1. a transfer protocol over a secure socket
  - 2. a hardware device that prevents unwanted access

3. a program that rearranges all stored disk files in a contiguous storage location 12 | P a g e











- 4. an application that accesses a computer system
- Q40. The \_\_\_\_\_\_ tag is used to specify a link on a Web page.
  - 1. <H>
  - 2. <A>
  - 3. <B>
  - 4. <P>
- Q41. Which of the following refers to Pretty Good Privacy (PGP)?
  - 1. FTP security
  - 2. Email security
  - 3. Browser security
  - 4. Password security

Q42. Circuit Switch Network are used in

- 1. Cellular Network
- 2. Satellite network
- 3. Radio Network
- 4. Telephone Network
- Q43. What is the maximum Header length in IPV4?
  - 1. 40 Bytes
  - 2. 30 Bytes
  - 3. 20 Bytes
  - 4. 60 Bytes













Q44. What does more fragment bit equals to 1's mean in IPV4 datagram?

- 1. The datagram can be fragmanted again
- 2. The datagram cross the limit of fragmentation
- 3. The datagram is not the last fragment, there are more fragment after these
- 4. None of these
- Q45. Advanced Encryption Standard (AES) is based on
  - 1. Asymmetric key algorithm
  - 2. Symmetric key algorithm
  - 3. Public key algorithm
  - 4. Key exchange

Q46. Which one of the following tag is used for unordered list?

- 1.
- 2. <0|>
- 3. <1i>
- 4. None of these
- Q47. Which one of the following is odd?
  - 1. IMAP
  - 2. POP
  - 3. SNMP
  - 4. SMTP

Q48. Which of the following is false regarding IEEE 802.11 WLAN protocol:

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- Fragmentation mechanism is not present to increase efficiency. 1.
- CSMA/CA can be used to implement the functionalities of WLAN. 2.
- CSMA/CD can't be used in WLAN. 3.
- IEEE802.11 only provides standard for physical and data link layer and not for 4. above layers.

Q49. Which of the following are in-band protocols?

- a) TCP
- b) SMTP
- c) POP
- d) FTP
- 1. Only d
- 2. Only a and b
- 3. Only a, b and c
- Only a and d 4.
- Q50. Delivery of frames from one hop to another is done in?
  - 1. Physical layer
  - 2. Data link layer
  - 3. Network layer
  - Network layer 4.
- Which of the following is true about Map Projections? Q51.

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Map projection is used to represent Earth's Curved surface on a flat map. 1.















- 2. 3D mapping plane is used in Map Projections.
- 3. Both a and b.
- 4. None of these.
- Q52. Lines and polygons are which type of data types?
  - 1. Vector Data Types
  - 2. Raster Data Types
  - 3. Both a and b
  - 4. None of these
- Q53. Automatic variables can be stored in which of the following storage unit?

- 1. stack
- 2. data segment
- 3. register
- 4. heap
- Q54. Which of the following is a storage specifier?

- 1. enum
- 2. union
- 3. auto
- 4. volatile
- Q55. What is the size of (char) in a 32-bit C compiler?

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1. 1 bit













- 2. 2 bits
- 3. 1 Byte
- 4. 2 Bytes
- Q56. Which of the following transmission media acquire maximum transmission rate in a network?
  - 1. coaxial cable
  - 2. twisted pair cable
  - 3. optical fibre
  - 4. electrical cable
- Q57. Which of the following transmission media acquire maximum transmission rate in a network?
  - 1. coaxial cable
  - 2. twisted pair cable
  - 3. optical fibre
  - 4. electrical cable
- Q58. The \_\_\_\_\_ internet service translates internet domain and host names to IP address.

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- 1. domain name system
- 2. routing information protocol
- 3. network time protocol
- 4. internet relay chat Protocol













- Q59. Which one of the following protocol delivers/stores mail to receiver server?
  - 1. simple mail transfer protocol
  - 2. post office protocol
  - 3. internet mail access protocol
  - 4. hypertext transfer protocol
- Q60. For each attribute of a relation, there is a set of permitted values, called as \_\_\_\_\_\_ of that attribute.
  - 1. Domain
  - 2. Relation
  - 3. Set
  - 4. Schema
- Q61. Which of the following system call in UNIX is used to create a new process?
  - 1. Fork
  - 2. Create
  - 3. New
  - 4. None of the Above
- Q62. The address of the next instruction to be executed by the current process is provided by the

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- 1. CPU registers
- 2. program counter













- 3. process stack
- 4. pipe
- Q63. In UNIX, each process is identified by its :
  - 1. Process Control Block
  - 2. Device Queue
  - 3. Process Identifier
  - 4. None of these
- Q64. Which data type is most suitable for storing a number 65000?
  - 1. signed short
  - 2. unsigned short
  - 3. long
  - 4. Int
- Q65. In data link layer one of the functionality is performed using CRC. What does it stands for
  - 1. cyclic redundancy check
  - 2. code repeat check
  - 3. code redundancy check
  - 4. cyclic repeat check
- Q66. The amount of time taken from the time of submission of a process to the time of completion is termed as
  - 1. waiting time
  - 2. turnaround time









- 3. response time
- 4. throughput
- Q67. A bridge has access to the \_\_\_\_\_ address of a station on the same network.
  - 1. Physical(MAC)
  - 2. Network
  - 3. Service access point
  - 4. All of the above.
- Q68. Which of the following must be true for a relation to be in 2NF?
  - 1. It must be in 1NF.
  - 2. No non-prime attribute is dependent on any proper subset of any candidate key of the table.
  - 3. A non-prime attribute attribute must not depend on another non prime attribute.
  - 4. Both A and B
- Q69. Participation between relationship set and weak entity set (if exist):
  - 1. Always total participation
  - 2. May be total participation
  - 3. Always partial participation
  - 4. May be partial participation
- Q70. Which of the following protocol is used to find MAC address for a given IP address?

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- 1. ARP (Address Resolution Protocol)
- 2. RARP (Reverse Address Resolution Protocol)
- 3. Bootp (Bootstrap Protocol)
- 4. DHCP (Direct Host Configuration Protocol)
- Q71. Find which of the following statements is true?



- 1. Each phone is assigned to at least one, and may be assigned up to 10 employees.Each employee is assigned at least one, but no more than 6 phones.
- 2. Each employee is assigned to at least one, and may be assigned up to 6 employees.Each employee is assigned at least one, but no more than 10 phones.
- 3. Each phone is assigned to at least one, and may be assigned up to 1 employee.Each employee is assigned at least one, but no more than 6 phones.
- 4. Each phone is assigned to at least one, and may be assigned up to 10 employees. Each employee is assigned at least one, but no more than 1 phones.
- Q72. Which one of the following computer network is built on the top of another network?

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- 1. prior network
- 2. chief network
- 3. prime network
- 4. overlay network













- Q73. Bluetooth is an example of
  - 1. personal area network
  - 2. local area network
  - 3. virtual private network
  - 4. none of the mentioned
- Q74. Which of the following is not a token of C program
  - 1. 1.02e+2
  - 2. # define
  - 3. MAX
  - 4. 123.33
- Q75. Which of the following may be an example of pre-emptive CPU scheduling?
  - 1. Switching from running to ready state
  - 2. Switching from running to waiting state due to an interrupt
  - 3. Termination of a process
  - 4. Unexpected abort () of a process
- Q76. If CPU burst time of all the process is equal Then SJF (shortest job first) scheduling algorithm is equivalent to

i) FCFS (First come first served)

ii) Round Robin with time quantum greatest then the largest CPU burst

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iii) Highest priority first













iv) Shortest remaining time first

- 1. i and ii only
- 2. iii and iv only
- 3. i, ii and iii only
- 4. i, ii and iv only
- Q77. To copy a file from server to host reliably which of the following protocols can be used?
  - I. SNMP
  - II. TFTP
  - III. FTP
  - IV. HTTP
  - V. DNS
  - 1. Land II
  - 2. II, III and IV
  - 3. III and IV
  - 4. IV and V
- Q78. Given an IP address 100.100.1.2 and subnet mask 255.255.248.0 what is the broadcast address?
  - 1. 100.100.7.255
  - 2. 100.100.255.255
  - 3. 100.100.248.255

<sup>4. 255.255.255.255</sup> 













- Q79. Translation, Encryption and Compression of information is performed at which layer of ISO/OSI architecture stack?
  - 1. Network Layer
  - 2. Session Layer
  - 3. Application Layer
  - 4. Presentation Layer
- Q80. Heap is a chunk of memory which is assigned when
  - 1. A program memory is allocated dynamically
  - 2. A program memory is allocated statically
  - 3. A program memory is allocated both dynamically and statically
  - 4. none of these
- Q81. Which layer is called the network dialog controller in ISO/OSI architecture stack?
  - 1. Application Layer
  - 2. Presentation Layer
  - 3. Network Layer
  - 4. Session Layer
- Q82. A counting semaphore is initialized to 4. Then 2 wait and 7 signal operation were completed on this semaphore. What is the resulting value of the semaphore?
  - 1. 2
  - 2. 0













- 4. 9
- Q83. DBMS is a general purpose software system that facilitates the process of
  - 1. Defining, constructing, storing and sharing
  - 2. Defining, constructing, manipulating and sharing
  - 3. Defining, updating, storing and sharing
  - 4. none of the above
- Q84. The purpose of translation look aside buffer in segmentation scheme is for
  - 1. Reducing the effective memory access time
  - 2. Speed up the program execution
  - 3. Avoids unnecessary writes onto the disk
  - 4. Contains the locality of the program
- Q85. Given a hash table T with 25 slots that stores 2000 elements, the load factor  $\alpha$  for T is \_\_\_\_\_.
- Q86. Each employee job can be either a secretary or a technician or an engineer. Which of the following specialization is suitable based on Job?

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- 1. Disjoint, partial specialization
- 2. overlapping, partial specialization
- 3. overlapping,total specialization











- 4. Disjoint, total specialization
- Q87. Which of the following is not true?
  - Generalization is the result of taking the union of two or more disjoint entity sets to produce a higher level entity set.
  - 2. Specialization is an abstraction in which relationship sets are treated as higher level entity sets
  - 3. Canonical covers are used to decompose a relation into 3NF, which is a small relaxation of the BCNF condition
  - 4. The concurrency control management component of the database is responsible

for handling the concurrency control policies

- Q88. Which of the following transmission layer protocol is connectionless, has low overhead and high speed?
  - 1. TCP
  - 2. TFTP
  - 3. UDP
  - 4. NTP
- Q89. Which of the following is not a class A host address
  - 1. 223.4.55.34
  - 2. 89.2.31.4
  - 3. 114.23.111.34
  - 4. 100.100.100.100















- Q90. Transport layer can be
  - 1. Connectionless
  - 2. Connection Oriented
  - 3. Both a and b
  - 4. None of These
- Q91. SNMP is a popular protocol for:
  - 1. Network Management
  - 2. Protocol Management
  - 3. Both A and B
  - 4. Neither A nor B

Q92. Internet at network layer uses which of the following switching method?

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- 1. Datagram switching
- 2. Message switching
- 3. Circuit switching
- 4. None of the above
- Q93. Auxiliary storage consists of
  - 1. Magnetic tapes
  - 2. Pen Drives
  - 3. Floppies
  - 4. All of these
- Q94. Who can provide access rights to users?











- 1. Data custodian
- 2. Data owner
- 3. The database administrator
- 4. Management
- Q95. In case of a virus getting into computer, which of the following will help?
  - 1. Encryption
  - 2. NORTON
  - 3. Cryptography
  - 4. All of these
- Q96. BCNF is needed because:
  - 1. Otherwise tuples may be duplicated
  - 2. when a data is deleted tuples may be lost
  - 3. updating is otherwise difficult
  - 4. when there is dependent attributes in two possible composite keys one of the attributes is unnecessarily duplicated in the tuples

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- Q97. Which of the following is a reliable service?
  - 1. TCP
  - 2. UDP
  - 3. Both (1) & (2)
  - 4. Either (1) nor (2)
- Q98. Firewall is used in PC for













- 1. Security
- 2. Authentication
- 3. Data transmission
- 4. All of these
- Q99. A transmission in which receiver receives the data simultaneously as it is relayed is called

- 1. Video-conferencing
- 2. Online transmission
- 3. Real-time transmission
- 4. Offline transmission

Q100. Binary equivalent of 87 is:

- 1. 01010111
- 2. 01101111
- 3. 01011111
- 4. 10111111





