

ATOMIC ENERGY EDUCATION SOCIETY

Anushaktinagar, Mumbai-400 094

2015 - Open Candidates Examination

Post - PGT (Computer Science)

Date - 27.09.2015

Time - 1 Hour 30 Minutes

Maximum Marks - 50

Instructions

- There are 50 Multiple Choice Questions (MCQ) in this paper. Each question carries 1 mark. There will be negative marking of 0.25 per wrong answer.
- 2. Answer should be darkened/marked in the OMR answer sheet only,
- Use of any electronic gadget (e.g. calculator, mobile phone, etc.) is not permitted, in the examination hall.
- In case a candidate has not signed the Attendance Sheet or the OMR Answer Sheet is not signed by the invigilator, it will be dealt with as a case of unfair means.
- On completion of the test, the candidates MUST HAND OVER THE OMR ANSWER SHEET AND QUESTION PAPER TO THE INVIGILATOR in the room/hall.
- 6. The candidates should ensure that the OMR answer sheet is not folded or damaged.

To be fil	led by the candidate
Name of the Candidate:	
Roll Number:	
OMR Number:	

No of printed pages -9

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2015-Open Candidates- PGT (Computer Science) - QP

D I	Affi	n n	nn	Can	GROVE

A) one bit of data

B) two bits of data

C) three bits of data

- D) n bits of data
- Q.2) Which gate does this truth table mentioned below indicate?

A	В	×	
0	0	0	
0	1	1	
1	0	1	1
1	1	0	

- A) NAND
- C) XOR

- B) NOR
- D) XAND
- Q.3) RAID1 data that is distributed across the drives consists of
 - A) striping, without mirroring or parity
- B) mirroring, without parity or striping
- C) mirroring, parity without striping
- D) striping, parity without mirroring
- Q.4) Windows 7 and Mac OS X, in computing uses the method of scheduling is called
 - A) Cooperative scheduling

- B) Multilevel queue scheduling
- C) Multilevel feedback queue scheduling
- D) Round robin scheduling
- Q.5) Public key encryption involves the use of
 - A) one key

B) two key

C) hash key

- D) hash function
- Q.6) The interval between the time of submission and completion of the job is called
 - A) Waiting time

B) turnaround time

C) throughput

- D) response time
- Q.7) The technique of removing inactive programs from the memory of computer system is
 - A) Semaphore

B) Scheduler

C) Spooling

D) Swapping

Q.8) How many distinguished permutation can b	e generated from word "ACCESS"?
A) 720	B) 180
C) 240	D) 120
Q.9) An equivalence relation is a relation which is	s
 A) reflexive and symmetric 	B) symmetric and transitive
C) reflexive and transitive	D) reflexive, symmetric and transit
Q.10) A simple graph in which there exist an edg	e between every pair of vertices's is called
A) Regular graph	B) Planar graph
C) Euler graph	D) Complete Graph
Q.11) A graph is a tree, if and only if it	
 A) is completely connected 	B) is minimally connected
C) contains a circuit	D) is planar
Q.12) In a directed graph, if there is a path fro	om a to b and from b to a whenever a and b
vertices in graph is called	
A) Complete graph	B) Bipartite graph
 C) Strongly connected graph 	D) Edge connected graph
Q.13) A tree with n nodes has	
A) n-1 edges	B) n/2 edges
C) n edges	D) n + 1 edges
Q.14) The language accepted by finite automata	is
A) Context free	B) Regular
C) Non-Regular	D) Context Sensitive
Q.15) In Chomsky classification of grammar, type	2 grammar is
 A) Formal grammar 	B) Context sensitive grammar
C) Context free grammar	D) Regular grammar
Q.16) Which of the following sorting algorithm is	of divide and conquer type?
A) Bubble sort	B) Insertion sort
C) Quick sort	D) Merge sort

Q.17) The complexity of linear search algorithm is		
A) O(n)	B) O(log n)	
C) O(m²)	D) O(n log n)	
Q.18) In OSI which layer manages Token Manage	ment?	
A) Network Layer	B) Session Layer	
C) Transport Layer	D) Data Link Layer	
Q.19) Transport Layer Security (TLS) and Secu	ire Socket Layer (SSL) works at v	which of the
following Layer?	A CONTRACTOR OF THE STREET	
A) Application Layer	B) Transport Layer	
C) Network Layer	D) Data Link Layer	
Q.20) in LAN switching prioritize data traffic by app	dication can be achieved using	9
A) Layer 2 switch	B) Layer 3 switch	
C) Layer 3 and Layer 4 switch	D) Layer 4 switch	
Q.21) What is MAC address ?		
 A) It is the network layer address of a 	network interface card that cannot be	e modified
B) It is the network layer address of a	network interface card that can be o	nodified
C) It is the data link layer address of	a network interface card that cannot i	be modified
D) It is the data link layer address of	a network interface card that can be	modified
Q.22) Which of the protocol is used for remote term	ninal connection service 2	
A) TELNET	B) FTP	
C) UDP	D) HTTP	
Q.23) Which of the following network uses software	re to establish a secure channel on	the Internet
for transmitting data?	The second state of	WHO MANDERSON
A) Wireless Network	B) Secure public network	
C) Virtual Public network	D) Virtual Private network	
Q.24) The IP address 124.168.192.254 is in		
A) Class A	B) Class B	
C) Class C	D) Class D	

1. 3

Q.25) IP V6 has	address.	
A) 32 Bit		B) 64 Bit
C) 128 Bit	6	D) variable
Q.26) Which of the foll	lowing TCP/IP protocols is used	for transferring electronic mail message
from server to ma		
A) FTP	STONE CYCLE	B) SMTP
C) POP		D) IMAP
Q 27) In Software Engir	neering / Development SRS stand	ds for
	re Requirement Specification	B) Software Requirement Solution
C) System	Requirement Specification	D) Software Requirement System
Q.28) Which of the 1	following below refers to main	taining and assuring the accuracy an
consistency of dat	a over its entire life-cycle?	TO THE STATE OF TH
A) Data C		B) Data independence
C) Data In	tegrity	D) Data Security
Q.29) In software de	evelopment life cycle models	which model having analysis, design
	d testing iterates during the syste	om development?
	nd fix model	B) Iterative enhancement life cycle
C) Spiral ii	fe cycle model	D) Waterfall Model
Q.30) What does the fol	lowing shape (Ellipse with under	ine) notion in E-R diagram is called?
A) Key Attı	ribute	B) Composite Attribute
C) Derived	Attribute	D) Multivalued Attribute
Q,31) Which of the follo line?	wing unix / linux command is us	ed for search text within files in comman
A) as		B) catch
C/ 43		

Q.32) Which of the following is not derivative d	ata type in C?	
A) Function	B) Pointer	
C) Enumeration	D) Array	
Q.33) In C programming a variable which is called?	visible only in the function in which it is defined	l, is
A) Static Variable	B) Auto Variable	
C) External Variable	D) Local Variable	
Q.34) What would be the output of the C progra	m?	
#include <stdio.h></stdio.h>		
(
int $i = 0$,		
for (;i<=5;i++);		
printf(*%d*,i);		
return 0;		
)		
A) 5	B) 6	
C) 0.1,2,3,4,5	O) 1.2,3,4,5	
Q 35) What would be the output for the following	g C program fragment?	
x = 5		
y = x ++		
printf("%d %d x v)		

A) 5, 7

C) 6.6

B) 7, 5

D) 6, 5

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Q.36) In C Program, the output of the following given program is
       int i
       main ()
       1
              printf("%d",i)
       1
              A) O
                                                              B) 1
              C1 -1
                                                              D) nutl
Q.37) In C program, the output of the value x is
       main()
        int x:
        x = 3*4%5;
        printf("x=%d", x)
            A) 1.9
                                                             B) 2
             C) 2.3
                                                             D) 5
Q.38) When a subclass is inherited from a super class, which itself inherited from a super class,
      then such inheritance is called ?
             A) Single inheritance
                                                             B) Multiple inheritance
             C) Hierarchical Inheritance
                                                             D) Multilevel inheritance
Q.39) The keyword used to define structure in C++ is
             A) stru
                                                             B) stt
             C) struct
                                                             D) structure
Q.40) What is tuple in RDBMS?
             A) name for table in RDBMS.
             B) name for the key linking different tables in the database
             C) a row or record in a database table
             D) an attribute attached to a record.
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Q.41) A tack of normalization can lead to which of	one of the following?
A) Insertion Problems	B) Deadlock
C) Lost Updates	D) Deferred updates
Q.42) If every non-key attribute is functionally of	dependent of the primary key, then the relation will
be in	5-25-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3
A. First Normal Form	
B. Second Normal Form	
C. Third Normal Form	
D. Fourth Normal Form	
Q.43) In database transaction property, If it ensu	res that either all the operations of the transactions
are reflected properly in the database or no	one should is called
A) Atomicity	B) Consistency
C) Isolation	D) Durability
Q.44) Locking was introduced to the Database si	o that
A) keys can be provided to maintain	n security
B) all simultaneous transactions are	e prevented
C) passwords can be provided to m	naintain security
D) consistency can be enforced	200409
Q.45) The statement in SQL which allows to char	nge the definition of the table is
A) ALTER	B) CREATE
C) SELECT	D) UPDATE
Q.46) Which SQL statement is used to return only	y different values from the table?
A) SELECT DIFFERENT	B) SELECT DISTINCT
C) SELECT UNIQUE	D) SELECT
Q.47) Which is the correct order if all the six claus	ses given below appear in the query?
A) SELECT, FROM, WHERE, GRO	UP BY, HAVING, ORDER BY
B) SELECT, FROM, WHERE, ORD	
C) SELECT, FROM, WHERE HAVE	

D) SELECT, FROM, WHERE, HAVING, GROUP BY, ORDER BY

Q.48) In Web page designing / programming, CSS is an acronym for

A) Cascading Style Sheet

B) Color Style Sheet

C) Cascading System Sheet

D) Color Scheme Sheet

Q.49) LDAP stands for

A) Lightweight Data Access Protocol

B) Lightweight Directory Access Protocol

C) Large Data Access Protocol

D) Large Directory Access Protocol

Q.50) Apache Torncat is a

A) Applet

B) Java Program

C) Servlet

D) Web Server

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NOTE: The Information provided here is only for reference. It may vary the Original

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PGT (Computer Science)

Answer Keys

1. A			
2. C			
3. B			
4. C			
5. B			
6. B			
7. D			
8. B			
9. D			
10. D			
11. B			
12. C			
13. A			
14. B			
15. C			
16 C			
17. A			
18. B			
19. A			
20. D			
21. C			
22. A			
23. D			
24. A			
25. C			

26. B 27.A 28. C 29. C 30. A 31. D 32. C 33. D 34. B 35. D 36. A 37. B 38. D 39. C 40. C 41. D 42. C 43. A 44. D 45.A 46. B 47. A 48.A 49.B 50. D

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