



# 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

- 1. 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.
- 3. Use of any electronic gadget (e.g. calculator, mobile phone, etc.) is not permitted, in the examination hall.
- 4. 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.
- 5. 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 filled by the candidate	
Name of the Candidate:	
Roll Number:	
OMR Number:	

No of printed pages -9

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

C) Spooling

Q.1) A flip flop can stor	е					
<ul><li>A) one bit of data</li><li>C) three bits of data</li></ul>				B) two bits of data		
			D) n bits of data			
Q.2) Which gate does t	his truth ta	able mer	itioned b	elow inc	icate?	
	Α	B	X			
	· ·		0	·:		
	U	0	- 0	· · <del>-</del>		
	:0	1	1			
	1	0	1			
	1	1	0			•
A) NAND					B) NOR	
C) XOR					D) XAND	
Q.3) RAID1 data that is	distribute	d across	the drive	es consi	sts of	
A) striping		_		/	B) mirroring, without parity or str	
C) mirroring, parity without striping		D) striping, parity without mirrori	ng			
O 4) Windows 7 and Ma	ac OS X	ln compi	ıtina usa	e the m	ethod of scheduling is called	
			anig asc	o the m	B) Multilevel queue scheduling	
A) Cooperative scheduling     C) Multilevel feedback queue scheduling			D) Round robin scheduling			
,					- ,	
Q.5) Public key encrypt	ion involv	es the us	se of			
A) one ke	у				B) two key	
C) hash k	еу				D) hash function	
Q.6) The interval betwe	en the tim	ne of sub	mission :	and com	pletion of the job is called	
A) Waiting					B) turnaround time	
C) through	nput				D) response time	
Q.7) The technique of r	emoving i	nactive p	rograms	from th	e memory of computer system is	
A) Semap			-		B) Scheduler	

D) Swapping

Q.8) How many distinguished permutation can be generated	d from word "ACCESS"?
A) 720	B) 180
C) 240	D) 120
Q.9) An equivalence relation is a relation which is	
A) reflexive and symmetric	B) symmetric and transitive
C) reflexive and transitive	D) reflexive, symmetric and transitive
Q.10) A simple graph in which there exist an edge 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 from a to b a vertices in graph is called  A) Complete graph  C) Strongly connected graph	B) Bipartite 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 gramma	ris
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 an	d 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(n <sup>2</sup> )	D) O(n log n)
Q.18) In OSI which layer manages Token Management?	
A) Network Layer	B) Session Layer
C) Transport Layer	D) Data Link Layer
Q.19) Transport Layer Security (TLS) and Secure Socke	et Layer (SSL) works at which of the
following Layer?	
A) Application Layer	B) Transport Layer
C) Network Layer	D) Data Link Layer
Q.20) In LAN switching prioritize data traffic by application of	an be achieved using
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 modified
B) It is the network layer address of a network	interface card that can be modified
C) It is the data link layer address of a network	interface card that cannot 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 terminal conr	nection service ?
A) TELNET	B) FTP
C) UDP	Ď) HTTP
Q.23) Which of the following network uses software to esta	ablish a secure channel on the Internet
for transmitting data?	
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

Q.25) IP V6 has	address.		
A) 32 Bit			B) 64 Bit
C) 128 Bit			D) variable
Q.26) Which of the follow from server to mail cl		s is used for	transferring electronic mail messages
A) FTP	,		B) SMTP
C) POP			D) IMAP
Q.27) In Software Enginee	ring / Development S	SRS stands fo	r
	Requirement Specific		B) Software Requirement Solution
C) System Re	equirement Specifica	ition	D) Software Requirement System
Q.28) Which of the folloconsistency of data o			ng and assuring the accuracy and
A) Data Cons	train		B) Data Independence
C) Data Integ	rity		D) Data Security
Q.29) In software devel implementation and to A) Build and f	est <mark>ing iterates du</mark> ring īx <mark>model</mark>	models whi	ch model having analysis, design, levelopment?  B) Iterative enhancement life cycle  D) Waterfall Model
O 30) What does the follow	ing chang (Filips a	Sthe complete (Co. )	
Q.30) What does the follow	ing snape (Ellipse w	ith underline)	notion in E-R diagram is called?
A) Key Attribu	te		B) Composite Attribute
C) Derived At	tribute		D) Multivalued Attribute
Q.31) Which of the following line?	g unix / linux comm	and is used f	or search text within files in command
A) as			B) catch
C) find			D) grep

Q.32) Which of the following is not derivative data type in C?

A) Function

B) Pointer

C) Enumeration

D) Array

Q.33) In C programming a variable which is visible only in the function in which it is defined, is called?

A) Static Variable

B) Auto Variable

C) External Variable

D) Local Variable

Q.34) What would be the output of the C program?

```
#include <stdio.h>
{
    int i = 0;
    for (;i<=5;i++);
        printf("%d",i);
    return 0;
}

A) 5
C) 0,1,2,3,4,5

B) 6
D) 1,2,3,4,5
```

Q.35) What would be the output for the following C program fragment?

```
x = 5
y = x ++
printf("%d %d, x, y)
```

- A) 5, 7
- C) 6, 6

- B) 7, 5
- D) 6, 5

Q.36) In C Program, the output of the following given program is

```
int i
main ()
{
    printf("%d",i)
}

A) 0
B) 1
C) -1
D) null
```

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
   C) 2.3

B) 2
   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

Q.41) A lack 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 d	ependent of the primary key, then the relation will
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	ne should is called
A) Atomicity	B) Consistency
C) Isolation	D) Durability
Q.44) Locking was introduced to the Database so	o that
A) keys can be provi <mark>ded to m</mark> aintair	n security
B) all simultaneous transactions are	e prevented
C) passwords can be provided to m	a <mark>intain security</mark>
D) consistency can be enforced	
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	
B) SELECT, FROM, WHERE, ORD	ER BY, HAVING, GROUP BY
C) SELECT, FROM, WHERE, HAVI	
D) SELECT, FROM, WHERE, HAVI	

- 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 Tomcat is a
  - A) Applet
  - C) Servlet

- B) Java Program
- D) Web Server



### **OPEN ADVERTISEMENT CANDIDATE EXAM-2015**

## PGT (Computer Science)

## Answer Keys

1. A	26. B
2. C	27. A
3. B	28. C
4. C	29. C
5. B	30. A
6. B	31. D
7. D	32. C
8. B	33. D
9. D	34. B
10. D	35. D
11. B	36. A
12. C	- 37. B
13. A	38. D
14. B	39. C
15. C	40. C
16. C	,41. D
17. A	42. C
18. B	43. A
19. A	44. D
20. D	45. A
21. C	46. B
22. A	47. A
<b>23</b> . D	48. A
24. A	49. B
25. C	50. D