

# National Testing Agency

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| <b>Question Paper Name :</b> | CIT 001 Fundamentals of Computer System 25th March 2021<br>Shift 1 |
| <b>Subject Name :</b>        | CIT 001 Fundamentals of Computer System                            |
| <b>Creation Date :</b>       | 2021-03-25 13:44:17  |
| <b>Duration :</b>            | 180  |
| <b>Number of Questions :</b> | 37   |
| <b>Total Marks :</b>         | 100  |
| <b>Display Marks:</b>        | Yes  |

## CIT 001 Fundamentals of Computer System

|                                      |          |
|--------------------------------------|----------|
| <b>Group Number :</b>                | 1        |
| <b>Group Id :</b>                    | 86435195 |
| <b>Group Maximum Duration :</b>      | 0        |
| <b>Group Minimum Duration :</b>      | 120      |
| <b>Show Attended Group? :</b>        | No       |
| <b>Edit Attended Group? :</b>        | No       |
| <b>Break time :</b>                  | 0        |
| <b>Group Marks :</b>                 | 100      |
| <b>Is this Group for Examiner? :</b> | No       |

## CIT 001 Fundamentals of Computer System-1

|                                |           |
|--------------------------------|-----------|
| <b>Section Id :</b>            | 864351499 |
| <b>Section Number :</b>        | 1         |
| <b>Section type :</b>          | Online    |
| <b>Mandatory or Optional :</b> | Mandatory |
| <b>Number of Questions :</b>   | 20        |

**Number of Questions to be attempted :** 20  
**Section Marks :** 20  
**Mark As Answered Required? :** Yes  
**Sub-Section Number :** 1  
**Sub-Section Id :** 864351535  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 8643518130 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Which of the following is NOT a pointing device?

1. Mouse
2. Touch Screen
3. Light Pen
4. Keyboard

**Options :**

86435124971. 1  
86435124972. 2  
86435124973. 3  
86435124974. 4

**Question Number : 2 Question Id : 8643518131 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Which of the following is true about RAM?

1. RAM non-volatile memory
2. RAM volatile memory
3. ROM and RAM are same
4. None of the above

**Options :**

86435124975. 1

86435124976. 2

86435124977. 3

86435124978. 4

**Question Number : 3 Question Id : 8643518132 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following is NOT a part of CPU?

1. Control Unit
2. Main Memory
3. ALU
4. All of the above

**Options :**

86435124979. 1

86435124980. 2

86435124981. 3

86435124982. 4

**Question Number : 4 Question Id : 8643518133 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

GUI stands for \_\_\_\_\_

1. Generic User Interface
2. Graphical User Instruction
3. Graphical User Interface
4. General User Instruction

**Options :**

86435124983. 1

86435124984. 2

86435124985. 3

86435124986. 4

**Question Number : 5 Question Id : 8643518134 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following is NOT true about DBMS?

1. Provide data integrity
2. Provide data consistency
3. Provide data sharing
4. Maximize data redundancy

**Options :**

- 86435124987. 1
- 86435124988. 2
- 86435124989. 3
- 86435124990. 4

**Question Number : 6 Question Id : 8643518135 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which virus exists in encrypted form in order to avoid detection by antivirus software ?

1. Decrypted Virus
2. Encrypted Virus
3. Tunneling Virus
4. Stealth Virus

**Options :**

- 86435124991. 1
- 86435124992. 2
- 86435124993. 3
- 86435124994. 4

**Question Number : 7 Question Id : 8643518136 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which protocol belongs to the network layer?

1. HTTP
2. IP
3. TCP
4. Mail transfer protocol

**Options :**

- 86435124995. 1
- 86435124996. 2
- 86435124997. 3
- 86435124998. 4

**Question Number : 8 Question Id : 8643518137 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following is a DBMS?

1. MySQL
2. MS-Word
3. MS-Powerpoint
4. MS-Excel

**Options :**

- 86435124999. 1
- 86435125000. 2
- 86435125001. 3
- 86435125002. 4

**Question Number : 9 Question Id : 8643518138 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Arithmetical and logical operations are performed at\_\_\_\_\_

1. Control Unit
2. Main Memory
3. Arithmetic and Logic Unit
4. Hard Disk

**Options :**

- 86435125003. 1
- 86435125004. 2
- 86435125005. 3
- 86435125006. 4

**Question Number : 10 Question Id : 8643518139 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which permanent memory holds data and instructions for start-up of the computer and does not erase the data after power off?

1. SDRAM
2. DRAM
3. ROM
4. RAM

**Options :**

- 86435125007. 1
- 86435125008. 2
- 86435125009. 3
- 86435125010. 4

**Question Number : 11 Question Id : 8643518140 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following memory has the shortest access time?

1. Cache memory
2. Register
3. Secondary memory
4. Main Memory

**Options :**

- 86435125011. 1
- 86435125012. 2
- 86435125013. 3
- 86435125014. 4

**Question Number : 12 Question Id : 8643518141 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The total access time for a disk is equal to the \_\_\_\_\_

1. seek time/ latency time
2. seek time – latency time
3. seek time + latency time
4. latency time / seek time

**Options :**

- 86435125015. 1
- 86435125016. 2
- 86435125017. 3
- 86435125018. 4

**Question Number : 13 Question Id : 8643518142 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following is NOT an input device?

1. Mouse
2. Mic
3. Keyboard
4. Printer

**Options :**

86435125019. 1  
86435125020. 2  
86435125021. 3  
86435125022. 4

**Question Number : 14 Question Id : 8643518143 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Resolution of a monitor means\_\_\_\_\_

1. number of pixels per screen
2. number of pixels per inch
3. the total number of pixels
4. half of the total number of pixels in a image

**Options :**

86435125023. 1  
86435125024. 2  
86435125025. 3  
86435125026. 4

**Question Number : 15 Question Id : 8643518144 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**



Which of the following is a word processing software?

1. Power Point
2. Excel
3. Word
4. Paint

**Options :**

86435125027. 1  
86435125028. 2  
86435125029. 3  
86435125030. 4

**Question Number : 16 Question Id : 8643518145 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

System software controls the operation of \_\_\_\_\_ devices, memory and processor etc.

1. only input
2. only output
3. both input and output
4. some input

**Options :**

86435125031. 1  
86435125032. 2  
86435125033. 3  
86435125034. 4

**Question Number : 17 Question Id : 8643518146 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The OSI model comprises\_\_\_\_\_ layers

1. Two
2. Seven
3. Five
4. Eight

**Options :**

- 86435125035. 1
- 86435125036. 2
- 86435125037. 3
- 86435125038. 4

**Question Number : 18 Question Id : 8643518147 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Information Security is NOT concerned with \_\_\_\_\_

1. Confidentiality
2. Integrity
3. Affordability
4. Availability

**Options :**

- 86435125039. 1
- 86435125040. 2
- 86435125041. 3
- 86435125042. 4

**Question Number : 19 Question Id : 8643518148 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following uses an unguided media?

1. Local telephone system
2. Satellite System
3. Cable TV
4. None of the above

**Options :**

86435125043. 1  
86435125044. 2  
86435125045. 3  
86435125046. 4

**Question Number : 20 Question Id : 8643518149 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

One Gigabits per second is equal to\_\_\_\_\_

1. 100 Megabits per second
2. 100 Kilobits per second
3. 1000 Kilobits per second
4. 1000 Megabits per second

**Options :**

86435125047. 1  
86435125048. 2  
86435125049. 3  
86435125050. 4

## **CIT 001 Fundamentals of Computer System-2**

**Section Id :**

864351500

**Section Number :**

2

|  |           |
|--|-----------|
| <b>Section type :</b>                        | Offline   |
| <b>Mandatory or Optional :</b>               | Mandatory |
| <b>Number of Questions :</b>                 | 10        |
| <b>Number of Questions to be attempted :</b> | 10        |
| <b>Section Marks :</b>                       | 30        |
| <b>Mark As Answered Required? :</b>          | Yes       |
| <b>Sub-Section Number :</b>                  | 1         |
| <b>Sub-Section Id :</b>                      | 864351536 |
| <b>Question Shuffling Allowed :</b>          | No        |

**Question Number : 21 Question Id : 8643518150 Question Type : SUBJECTIVE**

**Correct Marks : 3**

What is a computer? List any five applications of it.

**Question Number : 22 Question Id : 8643518151 Question Type : SUBJECTIVE**

**Correct Marks : 3**

What is a magnetic tape? Where is it used? Explain its advantage.

**Question Number : 23 Question Id : 8643518152 Question Type : SUBJECTIVE**

**Correct Marks : 3**

What is cache memory? Explain its advantages.

**Question Number : 24 Question Id : 8643518153 Question Type : SUBJECTIVE**

**Correct Marks : 3**

Explain 'seek time' and 'latency time' of a disk.

**Question Number : 25 Question Id : 8643518154 Question Type : SUBJECTIVE**

**Correct Marks : 3**

What is input device? List any three input devices.

**Question Number : 26 Question Id : 8643518155 Question Type : SUBJECTIVE**

**Correct Marks : 3**

What is a software? What are different types of software?

**Question Number : 27 Question Id : 8643518156 Question Type : SUBJECTIVE**

**Correct Marks : 3**

Briefly explain different data types available in C programming language.

**Question Number : 28 Question Id : 8643518157 Question Type : SUBJECTIVE**

**Correct Marks : 3**

Explain full duplex transmission with the help of a diagram.

**Question Number : 29 Question Id : 8643518158 Question Type : SUBJECTIVE**

**Correct Marks : 3**

Explain bus network topology with the help of a diagram.

**Question Number : 30 Question Id : 8643518159 Question Type : SUBJECTIVE**

**Correct Marks : 3**

Briefly explain password security threat.

### **CIT 001 Fundamentals of Computer System-3**

|  |           |
|--|-----------|
| <b>Section Id :</b>                          | 864351501 |
| <b>Section Number :</b>                      | 3         |
| <b>Section type :</b>                        | Offline   |
| <b>Mandatory or Optional :</b>               | Mandatory |
| <b>Number of Questions :</b>                 | 7         |
| <b>Number of Questions to be attempted :</b> | 5         |
| <b>Section Marks :</b>                       | 50        |
| <b>Mark As Answered Required? :</b>          | Yes       |
| <b>Sub-Section Number :</b>                  | 1         |
| <b>Sub-Section Id :</b>                      | 864351537 |
| <b>Question Shuffling Allowed :</b>          | No        |

**Question Number : 31 Question Id : 8643518160 Question Type : SUBJECTIVE**

**Correct Marks : 10**

What is main memory of a computer system? Explain different types of main memory of computer system.

**Question Number : 32 Question Id : 8643518161 Question Type : SUBJECTIVE**

**Correct Marks : 10**

What is Entity-Relationship(ER) diagram? Explain different symbols used in ER diagram, with the help of an example.

**Question Number : 33 Question Id : 8643518162 Question Type : SUBJECTIVE**

**Correct Marks : 10**

What is an operating system? Explain basic functions of an operating system.

**Question Number : 34 Question Id : 8643518163 Question Type : SUBJECTIVE**

**Correct Marks : 10**

Write a C program which takes a number as input and displays whether it is odd or even.

**Question Number : 35 Question Id : 8643518164 Question Type : SUBJECTIVE**

**Correct Marks : 10**

Explain serial transmission and parallel transmission with the help of diagrams.

**Question Number : 36 Question Id : 8643518165 Question Type : SUBJECTIVE**

**Correct Marks : 10**

What is a virus? Explain boot infectors and system infectors in brief. Also explain how a system may be prevented from virus attacks.

**Question Number : 37 Question Id : 8643518166 Question Type : SUBJECTIVE**

**Correct Marks : 10**

What is information security? Explain its need with the help of an example.

