

**Reference ID:** \_\_\_\_\_ **Name:** \_\_\_\_\_

**Program (CS/CDS):** \_\_\_\_\_ **Signature:** \_\_\_\_\_

**University of Management and Technology**

**Sample Admission Test**

**MS (CS/CDS)**

**Maximum Time: 60 Minutes**

**Total Marks: 100%**

**There are 40 MCQs based Questions.**

- **Give your answer (in the form of choice A, B, C, D or E) on the provided ANSWER SHEET only (given at the last page)**
  - **MCQs answers marked on the question paper will NOT be considered.**
  - **Do NOT unstaple or detach the answer sheet.**
- 1) To access the services of operating system, the interface is provided by the
    - A. System calls
    - B. API
    - C. Library
    - D. Assembly instructions
  - 2) Which one of the following is not true?
    - A. kernel is the program that constitutes the central core of the operating system
    - B. kernel is the first part of operating system to load into memory during booting
    - C. kernel is made of various modules which cannot be loaded in running operating system
    - D. kernel remains in the memory during the entire computer session
  - 3) What term means that a user cannot deny a specific action because there is positive proof that he or she performed it?
    - A. Accountability
    - B. Auditing
    - C. Nonrepudiation
    - D. Validation
  - 4) Semaphore is a/an \_\_\_\_\_ to solve the critical section problem.
    - A. Hardware for a system
    - B. Special program for a system
    - C. Integer variable
    - D. None of the mentioned

- 5) Which model can be selected if user is involved in all the phases of SDLC?
- A. Waterfall Model
  - B. Prototyping Model
  - C. RAD Model
  - D. Both Prototyping Model & RAD Model

12).class X

```
{ private:
```

```
int a;
```

```
public:
```

```
X(){cout<<"X constructor was called"<<endl;}
```

```
X(int n) {cout<<"X(int) constructor was called"<<endl;}
```

```
~X(){cout<<"X destructor was called"<<endl;}
```

```
};
```

```
main()
```

```
{
```

```
X x(3);
```

```
} Which of the following will be the output from the sample above?
```

- A. X(int) destructor was called  
X destructor was called
- B. X constructor was called  
X(int) constructor was called  
X destructor was called
- C. X(int) constructor was called  
X destructor was called
- D. X constructor was called  
X destructor was called
- E. X constructor was called  
X destructor was called

6) You can add a row using SQL in a database with which of the following?

- A. ADD
- B. CREATE
- C. INSERT
- D. MAKE

7) The command to remove rows from a table 'CUSTOMER' is

- A. REMOVE FROM CUSTOMER ...
- B. DROP FROM CUSTOMER ...
- C. DELETE FROM CUSTOMER WHERE ...
- D. UPDATE FROM CUSTOMER ...

8) A recursive relationship is a relationship between an entity and \_\_\_\_\_.

- A. Itself
- B. A subtype entity
- C. A Table
- D. All of the above

9) What is used to create a digital signature?

- A. The receiver's private key
- B. The sender's public key
- C. The sender's private key
- D. The receiver's public key