Communication Skills (FY B.Sc. IT)

Academic year 2020-2021

INTERNAL EXAMINATION (OCTOBER 2020)

Class : FY
Branch : B.Sc. IT
Semester : I
Subject : Communication Skills
Subject Code: USIT105

Total marks : 20
Time : 01:00 - 01:30 pm
Duration: 30 minutes

* Required

1. Email address *

2. Full Name *

3. Roll No. *

4. Class and Department *

Mark only one oval.

- FY B.Sc. IT

5. Semester *

Mark only one oval.

- I

10. Which of the following is non-verbal communication? *

Mark only one oval.

- Advising
- Counselling
- Graphics
- Debating

11. In the 7 Cs of communication Consideration means *

Mark only one oval.

- Include only relevant material.
- Avoid unnecessary repetition
- to consider the receiver's interest/ intention
- Use specific facts and figures.

12. In the 7 Cs of communication Clarity means *

Mark only one oval.

- Include only relevant material.
- Choose precise words
- Avoid unnecessary repetition
- to consider the receiver's interest/ intention

13. Most communication barriers are due to *

Mark only one oval.

- Internet issues
- Difference in perception
- Failure of train services
- Natural calamities

18. The essence of communication is that *

Mark only one oval.

- both the sender and the receiver should be good listeners.
- sender should be good listener
- the receiver should be good listener
- neither the sender nor the receiver should be good listeners.

19. Which of the following is not a business letter *

Mark only one oval.

- Letter to credit agencies
- Letter to customer
- Letter to an old friend
- Letter to a company.

20. Which of the following is a business letter? *

Mark only one oval.

- Letter to your employer
- Letter to a friend
- Letter to your sister
- Letter to a cousin

21. Which of the following is a closing line in a job application ? *

Mark only one oval.

- Your commitment to customer satisfaction is something I've always strived for in my own career.
- I am excited to apply for the Project Analyst position
- Thanks for reading, looking forward to hearing back.
- I learned how to find the solution that satisfied the maximum number of stakeholders.

26. A request memo is _____ *

Mark only one oval.

- ◯ Typically sent to give an update or progress report.
- ◯ Submitted as a request to a certain person or team.
- ◯ Written to confirm an agreement made between two parties.
- ◯ Usually sent by management requesting input from employees on how to solve a certain problem

27. Confirmation memo is _____ *

Mark only one oval.

- ◯ Typically sent to give an update or progress report.
- ◯ Submitted as a request to a certain person or team.
- ◯ Written to confirm an agreement made between two parties.
- ◯ Usually sent by management requesting input from employees on how to solve a certain problem

Discrete Mathematics (FY B.Sc. IT)

Academic year 2020-2021

INTERNAL EXAMINATION (OCTOBER 2020)

Class : FY
Branch : B.Sc. IT
Semester : I
Subject : Discrete Mathematics
Subject Code: USIT104

Total marks : 20
Time : 11:00 - 11:30 am
Duration: 30 minutes

* Required

1. Email address *

2. Full Name *

3. Roll No. *

4. Class and Department *

Mark only one oval.

- FY B.Sc. IT

5. Semester *

Mark only one oval.

- I

11. What is the dual of $(A \wedge B) \vee (C \wedge D)$? *

Mark only one oval.

- $(A \vee B) \vee (C \vee D)$
- $(A \vee B) \wedge (C \vee D)$
- $(A \vee B) \vee (C \wedge D)$
- $(A \wedge B) \vee (C \vee D)$

12. Let P: This is a great website, Q: You should not come back here. Then 'This is a great website and you should come back here.' is best represented by? *

Mark only one oval.

- $\sim P \vee \sim Q$
- $P \wedge \sim Q$
- $P \vee Q$
- $P \wedge Q$

13. The compound propositions p and q are called logically equivalent if _____ is a tautology. *

Mark only one oval.

- $p \leftrightarrow q$
- $p \rightarrow q$
- $\neg (p \vee q)$
- $\neg p \vee \neg q$

14. The converse of $p \rightarrow q$ is the proposition of _____ *

Mark only one oval.

- $\neg p \rightarrow \neg q$
- $\neg q \rightarrow \neg p$
- $q \rightarrow p$
- $\neg q \rightarrow p$

19. A={a, e, i, o, u} is an example of? *

Mark only one oval.

- Roster Form
- Set Builder Notation
- Both A and B
- None of the above

20. The set of positive integers is _____ *

Mark only one oval.

- infinite
- Finite
- Subset
- Empty

21. If n(A)=20 and n(B)=30 and n(A U B) = 40 then n(A ∩ B) is? *

Mark only one oval.

- 20
- 30
- 40
- 10

25. ~ A v ~ B is logically equivalent to? *

Mark only one oval.

- ~ A → ~ B
- ~ A ∧ ~ B
- A → ~B
- B V A

26. If set A has 4 elements and B has 3 elements then set n(A X B) is? *

Mark only one oval.

- 12
- 14
- 24
- 7

27. What are the inverse of the conditional statement "If you make your notes, it will be a convenient in exams." *

Mark only one oval.

- "If you make notes, then it will be a convenient in exams."
- "If you do not make notes, then it will not be a convenient in exams."
- "If it will not be a convenient in exams, then you did not make your notes."
- "If it will be a convenient in exams, then you make your notes

Operating Systems (FY B.Sc. IT)

Academic year 2020-2021

INTERNAL EXAMINATION (OCTOBER 2020)

Class : FY
Branch : B.Sc. IT
Semester : I
Subject : Operating Systems
Subject Code: USIT103

Total marks : 20
Time : 11:00 - 11:30 am
Duration: 30 minutes

* Required

1. Email address *

2. Full Name *

3. Roll No. *

4. Class and Department *

Mark only one oval.

- FY B.Sc. IT

5. Semester *

Mark only one oval.

- I

10. To access the services of operating system, the interface is provided by the _____ *

Mark only one oval.

- System calls
- API
- Library
- Assembly instructions

11. In Unix, Which system call creates the new process? *

Mark only one oval.

- fork
- create
- new
- none of the mentioned

12. What is interprocess communication? *

Mark only one oval.

- communication within the process
- communication between two process
- communication between two threads of same process
- none of the mentioned

13. The address of the next instruction to be executed by the current process is provided by the _____ *

Mark only one oval.

- CPU registers
- Program counter
- Process stack
- Pipe

18. Which scheduling algorithm allocates the CPU first to the process that requests the CPU first? *

Mark only one oval.

- ◯ first-come, first-served scheduling
- ◯ shortest job scheduling
- ◯ priority scheduling
- ◯ none of the mentioned

19. Which one of the following can not be scheduled by the kernel? *

Mark only one oval.

- ◯ kernel level thread
- ◯ user level thread
- ◯ process
- ◯ none of the mentioned

20. Scheduling is done so as to _____ *

Mark only one oval.

- ◯ increase CPU utilization
- ◯ decrease CPU utilization
- ◯ keep the CPU more idle
- ◯ none of the mentioned

21. What is Response time? *

Mark only one oval.

- ◯ the total time taken from the submission time till the completion time
- ◯ the total time taken from the submission time till the first response is produced
- ◯ the total time taken from submission time till the response is output
- ◯ none of the mentioned

26. Thrashing _____ the CPU utilization. *

Mark only one oval.

- ◯ increases
- ◯ keeps constant
- ◯ decreases
- ◯ none of the mentioned

27. File type can be represented by _____ *

Mark only one oval.

- ◯ file name
- ◯ file extension
- ◯ file identifier
- ◯ none of the mentioned

Digital Electronics (FY B.Sc. IT)

Academic year 2020-2021

INTERNAL EXAMINATION (OCTOBER 2020)

Class : FY
Branch : B.Sc. IT
Semester : I
Subject : Digital Electronics
Course Code: USIT102

Total marks : 20
Time : 01:00 - 01:30 pm
Duration: 30 minutes

* Required

1. Email address *

2. Full Name *

3. Roll No. *

4. Class and Department *

Mark only one oval.

- FY B.Sc. IT

5. Semester *

Mark only one oval.

- I

10. Binary number 1100 is equal to octal number *

Mark only one oval.

- 17
- 16
- 14
- 13

11. The binary subtraction 1 - 1 = *

Mark only one oval.

- difference = 1 borrow = 0
- difference = 0 borrow = 1
- difference = 1 borrow = 1
- difference = 0 borrow = 0

12. 7BF16 = (----)2 *

Mark only one oval.

- 0111 1011 1110
- 0111 1011 1111
- 0111 1011 0111
- 0111 1011 0011

13. On subtracting $(010110)_2$ from $(1011001)_2$ using 2's complement, the result is *

Mark only one oval.

- $(0111001)_2$
- $(1100101)_2$
- $(0110110)_2$
- (1000011)

18. State the minimum number of NOR gate requires for implementing NOT gate *

Mark only one oval.

- 3
- 4
- 2
- 1

19. There are _____ cells in 3- variable K-map *

Mark only one oval.

- 12
- 18
- 8
- 4

20. The logical product of two or more logical sum terms is called _____ *

Mark only one oval.

- NAND operation
- SOP
- OR operation
- POS

21. Identify the statement given below best describes a Karnaugh map *

Mark only one oval.

- It is a pictorial representation of truth table
- The Karnaugh map eliminates the need for using NAND and NOR gates
- Variable complements can be eliminated by using Karnaugh maps
- A Karnaugh map can be used to replace Boolean rules

26. To make an eight-bit adder from two four-bit adders you must connect *

Mark only one oval.

- the low-order carry-out to high-order carry-in.
- the high-order carry-out to ground.
- the low-order sum to the high-order data input.
- the high-order carry-in to ground.

27. The number of bits in ASCII is *

Mark only one oval.

- 12
- 10
- 9
- 7

Imperative Programming (FY B.Sc. IT)

Academic year 2020-2021

INTERNAL EXAMINATION (DECEMBER 2020)

Class : FY
Branch : B.Sc. IT
Semester : I
Subject : Imperative Programming
Subject Code: USIT101

Total marks : 20
Time : 11:00 - 11:30 am
Duration: 30 minutes

* Required

1. Email address *

2. Full Name *

3. Roll No. *

4. Class and Department *

Mark only one oval.

- FY B.Sc. IT

5. Semester *

Mark only one oval.

- I

10. Which printf() statement will you use to print out a (float value) and b (double value)? Float a = 3.14; Double b = 3.14; *

Mark only one oval.

- printf("%f %lf", a, b);
- printf("%f %f", a, b);
- printf("%Lf %Lf", a, b);
- printf("%f %Lf", a, b);

11. Standard ANSI C recognizes _____ number of keywords? *

Mark only one oval.

- 30
- 32
- 24
- 36

12. Which of following is not a valid name for a C variable? *

Mark only one oval.

- Cprogramming
- C_programming
- C programming
- None of the above

13. What error will be generated on using incorrect specifier for the datatype being read? *

Mark only one oval.

- compile error
- run-time error
- logical error
- no error

18. In C programming language, which of the following type of operators have the highest precedence *

Mark only one oval.

- Relational operators
- Equality operators
- Logical operators
- Arithmetic operators

19. Choose the correct output int a = 10 + 4.867; *

Mark only one oval.

- a = 10
- a = 14.867
- a = 14
- compiler error

20. Choose a correct statement. int a = 12 + 3 * 5 / 4 – 10 *

Mark only one oval.

- 12, 3, 5, 4 and 10 are Operators. +, -, * and / are Operands. = is an increment operator.
- 12, 3, 5, 4 and 10 are Operands. +, -, * and / are Operators. = is decrement operator.
- 12, 3, 5, 4 and 10 are Operands. +, -, * and / are Operators. = is an assignment operator.
- 12, 3, 5, 4 and 10 are Operands. +, -, * and / are Logical Operators. = is an assignment operator.

21. Predict the output of int a = 3.5 + 4.5; *

Mark only one oval.

- a = 0
- a = 7
- a = 8
- a = 8.0

25. Predict the output of -> int var = 3.5; *

Mark only one oval.

- a = 3.5
- a = 3
- a = 0
- Compiler error

26. Predict the output : *

```
int main()
{
    float c = 3.5 + 4.5;
    printf("%d", (int)c);

    return 0;
}
```

Mark only one oval.

- 8.0
- 8.000000
- 7
- 8

27. Predict the value of x in this C code *

```
int main()
{
  int i = -5;
  int k = i%4;
  printf("%d\n",k);
}
```

Mark only one oval.

- Compile Time Error
- -1
- 1
- 0