



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD

**Class : 12****Subject : COMPUTER APPLICATION****Term : SECOND TERM****Max Marks : 80****Q 1 :** Which of the following is true for AND gate?**Marks : 1**1.  $1.1 = 0$ 2.  $1.1 = 1$ 3.  $0.1 = 1$ 

4. None of these

 ( This Answer is Correct )**Q 2 :** What is the output for  $(1.0)'$  ?**Marks : 1**

1. 1

2. 0

3. 10

4. None of these

 ( This Answer is Correct )**Q 3 :** This is a self-describing, stored collection of inter related data:**Marks : 1**

1. database

2. database instance

3. reference

4. None of these

 ( This Answer is Correct )**Q 4 :** All types of logic gates can be formed by suitable combinations of \_\_\_\_\_ gates only:**Marks : 1**

1. NOT

2. AND

3. NOR

4. XOR

 ( This Answer is Correct )**Q 5 :** How many NAND gate(s) are required to form an AND gate?**Marks : 1**

1. 1

2. 2

3. 3

4. 4

 ( This Answer is Correct )

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**Q 6 :** How many NAND gate(s) are required to form an OR gate?

**Marks :** 1

- 1 . 1
- 2 . 2
- 3 . 3**
- 4 . 4

( This Answer is Correct )

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**Q 7 :** The output of a 2 input XOR gate with inputs A and B is given by:

**Marks :** 1

- 1 . AB
- 2 .  $A'. B + A . B'$**
- 3 .  $A'.B' + A.B$
- 4 . A+B

( This Answer is Correct )

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**Q 8 :**  $A'. B + A . B'$  may also be represented as:

**Marks :** 1

- 1 .  $A \oplus B$**
- 2 . A . B
- 3 . A + B
- 4 .  $(A \oplus B)'$

( This Answer is Correct )

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**Q 9 :** `<ol type = i start = 5>` will start the list with the character:

**Marks :** 1

- 1 . i
- 2 . iii
- 3 . v**
- 4 . ix

( This Answer is Correct )

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**Q 10 :** The type of relationship where each worker is under one supervisor:

**Marks :** 1

- 1 . 1:N
- 2 . N:1
- 3 . 1:1**
- 4 . N:N

( This Answer is Correct )

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**Q 11 :** Which of the following is a false reason for parallel lines not being used for long distances?:

**Marks :** 1

- 1 . Cost factor
- 2 . Signal Attenuation
- 3 . Number of transmission channels
- 4 . Low speed**

( This Answer is Correct )

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**Q 12 :** How many links are required to carry 'n' bit data for parallel communication?: **Marks : 1**

- 1 . n+1
- 2 . n-1
- 3 . 1
- 4 . n

( This Answer is Correct )

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**Q 13 :** This protocol defines the transport mechanism for sending email messages over the internet: **Marks : 1**

- 1 . SMTP
- 2 . POP3
- 3 . IMAP
- 4 . MIME

( This Answer is Correct )

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**Q 14 :** These are the people who interact with a database without writing application programs but by requesting information from a database using queries: **Marks : 1**

- 1 . Application Programmer
- 2 . Specialised Users
- 3 . Inexperienced Users
- 4 . Sophisticated Users

( This Answer is Correct )

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**Q 15 :** \_\_\_\_\_ constraints specify that for any given tuple, the value of each attribute must be an atomic value taken from the domain: **Marks : 1**

- 1 . Foreign
- 2 . Referential Integrity
- 3 . Integrity
- 4 . Domain

( This Answer is Correct )

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**Q 16 :** Using this, cell data can be coloured based on a condition: **Marks : 1**

- 1 . conditional formatting
- 2 . conditional styling
- 3 . conditional makeover
- 4 . None of these

( This Answer is Correct )

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**Q 17 :** Validation rule property for a field that lies within the range 10 and 50: **Marks : 1**

- 1 . >=10 AND <=50
- 2 . >10 AND <50
- 3 . >=10 OR <=50

( This Answer is Correct )

4 . None of these

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**Q 18 :** Which of the following attributes is suitable to do as a Primary Key of a table "STUDENT" in MS Access? **Marks : 1**

- 1 . Student\_id  ( This Answer is Correct )
  - 2 . Student\_name
  - 3 . Student\_address
  - 4 . All of these
- 

**Q 19 :** Which command in SQL is used to arrange data in a given order?: **Marks : 1**

- 1 . list by
  - 2 . store by
  - 3 . order by  ( This Answer is Correct )
  - 4 . arrange by
- 

**Q 20 :** Any IP address that starts with '0' in binary in the first bit of the first octet: **Marks : 1**

- 1 . Class A  ( This Answer is Correct )
  - 2 . Class B
  - 3 . Class C
  - 4 . None of these
- 

**Q 21 :** In email, the username and the domain name are separated by: **Marks : 1**

- 1 . \$
  - 2 . #
  - 3 . @  ( This Answer is Correct )
  - 4 . None of these
- 

**Q 22 :** Any IP address that starts with '110' in binary in the first 3 bits of the first octet: **Marks : 1**

- 1 . Class A
  - 2 . Class B
  - 3 . Class C  ( This Answer is Correct )
  - 4 . None of these
- 

**Q 23 :** Which gate is the logical complement of OR? **Marks : 1**

- 1 . NOT
- 2 . NOR  ( This Answer is Correct )

- 3 . NAND
  - 4 . XNOR
- 

**Q 24 :** This attribute of the list tag is used to select the style of numbering in an ordered list:

**Marks :** 1

- 1 . div
- 2 . align
- 3 . type**
- 4 . start

( This Answer is Correct )

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**Q 25 :** This is the lowest level of database abstraction:

**Marks :** 1

- 1 . View level
- 2 . Logical level
- 3 . Physical level**
- 4 . None of these

( This Answer is Correct )

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**Q 26 :** The table STUDENT (ID, Name, Address, Phone) has degree:

**Marks :** 1

- 1 . 3
- 2 . 4**
- 3 . 5
- 4 . 6

( This Answer is Correct )

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**Q 27 :** All types of logic gates can be formed by suitable combinations of \_\_\_\_\_ gates only:

**Marks :** 1

- 1 . NOT
- 2 . AND
- 3 . NAND**
- 4 . XOR

( This Answer is Correct )

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**Q 28 :** The basic operation of a half adder circuit is to add \_\_\_\_\_ binary digits

**Marks :** 1

- 1 . 2**
- 2 . 3
- 3 . 4
- 4 . 5

( This Answer is Correct )

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**Q 29 :** Which clause in SQL corresponds to the selection operation of relational algebra?:

**Marks :** 1

- 1 . having

2. from
3. like
4. where

( This Answer is Correct )

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**Q 30 :** The carryout bit expression for a half adder which adds the digits A & B is:

**Marks :** 1

1. AB
2. A'. B + A . B'
3. A'.B' + A.B
4. A+B

( This Answer is Correct )

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**Q 31 :** The symbol used to denote PROJECTION operation is:

**Marks :** 1

1.  $\sigma$
2.  $\Pi$
3.  $\rho$
4.  $\cup$

( This Answer is Correct )

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**Q 32 :** Which one of the following is not a proper function of a computer network?:

**Marks :** 1

1. Resource sharing
2. Image scanning
3. Information sharing
4. Fault tolerance

( This Answer is Correct )

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**Q 33 :** Which of the following strings can be used in SQL to check if a name starts with 'RI'?

**Marks :** 1

1. 'RI\_'
2. 'RI%'
3. 'RI\_%'
4. 'RI'

( This Answer is Correct )

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**Q 34 :** Signal that changes in a continuous manner with time is known as:

**Marks :** 1

1. Analogue
2. Digital
3. Sequential
4. None of these

( This Answer is Correct )

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**Q 35 :** In this mode of communication data can travel in one direction only:

**Marks :** 1

1. Asynchronous
2. Full Duplex
3. Half Duplex
4. Simplex

( This Answer is Correct )

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**Q 36 :** Walkie-talkie is an example of which communication mode?

**Marks :** 1

1. Asynchronous
2. Full Duplex
3. Half Duplex
4. Simplex

( This Answer is Correct )

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**Q 37 :** What is the benefit of networking?:

**Marks :** 1

1. File sharing
2. Easier access to resources
3. Easier backups
4. All of the above

( This Answer is Correct )

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**Q 38 :** The ability to modify the structure of a database in one level without affecting the database structure in a higher level:

**Marks :** 1

1. database
2. database instance
3. reference
4. data independence

( This Answer is Correct )

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**Q 39 :** The HTML \_\_\_\_\_ tag defines the font size, color and face of text in the HTML document. :

**Marks :** 1

- 1.
- 2.
- 3.
4. None of these

( This Answer is Correct )

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**Q 40 :** Which bit is transmitted first in a serial communication?:

**Marks :** 1

1. Least significant
2. Most significant
3. All the bits simultaneously
4. Not in any specific order

( This Answer is Correct )

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- Q 41 :** The number of transmitted bit for serial communication is: **Marks : 1**
- 1 . 1  ( This Answer is Correct )
  - 2 . 2
  - 3 . Same as number of bits of the information
  - 4 . None of these
- 

- Q 42 :** This is also known as the cache manger: **Marks : 1**
- 1 . Hardware
  - 2 . Data manager  ( This Answer is Correct )
  - 3 . Users
  - 4 . Query Processor
- 

- Q 43 :** The cost of setting up of which of the following is high?: **Marks : 1**
- 1 . Serial communication
  - 2 . Parallel communication  ( This Answer is Correct )
  - 3 . Serial – Parallel communication
  - 4 . None of these
- 

- Q 44 :** Which is a disadvantage of a peer to peer network?: **Marks : 1**
- 1 . Central management is more difficult
  - 2 . Peer to peer networks is expensive
  - 3 . No central management, can be slow  ( This Answer is Correct )
  - 4 . Peer to peer networks is difficult to maintain
- 

- Q 45 :** One of the most common LAN protocol is: **Marks : 1**
- 1 . ATM
  - 2 . PPP
  - 3 . SDH
  - 4 . Ethernet  ( This Answer is Correct )
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- Q 46 :** Network in which every computer is capable of playing the role of client, server or both at the same time is called: **Marks : 1**
- 1 . wide area network
  - 2 . local area network
  - 3 . peer-to-peer network  ( This Answer is Correct )
  - 4 . dedicated server network
-



**Q 47 :** A minimal super key, no proper subset of which is another super key: **Marks : 1**

- 1 . Relation
- 2 . Primary key
- 3 . Candidate key**  ( This Answer is Correct )
- 4 . Degree

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**Q 48 :** Depending upon the physical property of the channel through which the data is transmitted, the overall shape of the signal can also change called: **Marks : 1**

- 1 . distortion**  ( This Answer is Correct )
- 2 . attenuation
- 3 . baud
- 4 . None of these

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**Q 49 :** A Satellite which has a time period same as the earth's rotation time, is called: **Marks : 1**

- 1 . geological satellite
- 2 . geometric satellite
- 3 . geostationary satellite**  ( This Answer is Correct )
- 4 . geosynchronous satellite

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**Q 50 :** The signal from the satellite back to the ground antenna is called: **Marks : 1**

- 1 . forward link
- 2 . uplink
- 3 . downlink**  ( This Answer is Correct )
- 4 . back link

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**Q 51 :** This is an established set of rules that determine how data is transmitted between different devices in the same network: **Marks : 1**

- 1 . Rule book
- 2 . Protocol**  ( This Answer is Correct )
- 3 . Director
- 4 . Router

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**Q 52 :** This function is used to count the number of cells in a range that satisfies a given condition: **Marks : 1**

- 1 . NUMBERIF
- 2 . COUNTIF**  ( This Answer is Correct )
- 3 . IFCOUNT

4 . None of these

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**Q 53 :** An MS Excel File is called a:

**Marks :** 1

- 1 . workbook
- 2 . worksheet
- 3 . page
- 4 . None of these

( This Answer is Correct )

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**Q 54 :** The intersection of a row and column:

**Marks :** 1

- 1 . File Handle
- 2 . Cell
- 3 . page
- 4 . None of these

( This Answer is Correct )

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**Q 55 :** This function is used to convert a True condition to False and a False condition to True:

**Marks :** 1

- 1 . OR
- 2 . IF
- 3 . AND
- 4 . NOT

( This Answer is Correct )

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**Q 56 :** Excel names the first new workbook opened as:

**Marks :** 1

- 1 . Page1
- 2 . Worksheet1
- 3 . Workbook1
- 4 . Book1

( This Answer is Correct )

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**Q 57 :** The typed data also appears in the \_\_\_\_\_ bar in excel:

**Marks :** 1

- 1 . status
- 2 . title
- 3 . formula
- 4 . None of these

( This Answer is Correct )

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**Q 58 :** Insert option is available in this group:

**Marks :** 1

- 1 . clipboard
- 2 . font

3 . styles

4 . cells

( This Answer is Correct )

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**Q 59 :** "I" button in font group make the text in the cell(s):

**Marks :** 1

1 . bold

2 . italic

3 . underlined

4 . None of these

( This Answer is Correct )

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**Q 60 :** This function is used to join several text strings into a single text string:

**Marks :** 1

1 . CONCATENATE

2 . ADD

3 . JOIN

4 . None of these

( This Answer is Correct )

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**Q 61 :** This option makes the cell content visible within the cell by distributing the text in multiple lines:

**Marks :** 1

1 . wrap text

2 . merge & center

3 . conditional formatting

4 . None of these

( This Answer is Correct )

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**Q 62 :** This option is used to combine a number of cells into a single cell and align the text at the center of the cell:

**Marks :** 1

1 . wrap text

2 . merge & center

3 . conditional formatting

4 . None of these

( This Answer is Correct )

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**Q 63 :** To enter a calculation in a cell first type \_\_\_\_\_ sign:

**Marks :** 1

1 . +

2 . =

3 . \*

4 . /

( This Answer is Correct )

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**Q 64 :** A\$1 is an example of \_\_\_\_\_ cell reference:

**Marks :** 1

1 . formative

2 . absolute

3 . mixed

( This Answer is Correct )

4 . relative

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**Q 65 :** What type of software package is MS Access?

**Marks :** 1

1 . presentation

2 . database

( This Answer is Correct )

3 . word processing

4 . spreadsheet

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**Q 66 :** The file extension of an Access 2007 file is:

**Marks :** 1

1 . db

2 . accdb

( This Answer is Correct )

3 . acc

4 . mdb

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**Q 67 :** Which tab in Access 2007 can be used to design and modify a table?

**Marks :** 1

1 . Create

( This Answer is Correct )

2 . Datasheet

3 . Home

4 . Database Tools

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**Q 68 :** Which type of data can be used to store very long text in Access 2007?

**Marks :** 1

1 . Text

2 . OLE

3 . Hyperlink

4 . Memo

( This Answer is Correct )

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**Q 69 :** Which type of data can be used to store audio type data in Access 2007?

**Marks :** 1

1 . Text

2 . OLE

( This Answer is Correct )

3 . Hyperlink

4 . Memo

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**Q 70 :** A value entered into an Access2007 table automatically if the user does not enter any value:

**Marks :** 1

( This Answer is Correct )

- 1 . Default Value
  - 2 . Text Value
  - 3 . Automatic Value
  - 4 . Required Value
- 

**Q 71 :** This property is used to check the pattern of data the user can enter in a given field in a table:

**Marks :** 1

- 1 . Field Size
- 2 . Required
- 3 . Validation Rule
- 4 . Input Mask

 ( This Answer is Correct )

**Q 72 :** Validation rule property for a field that cannot be equal to 10 in an Access table:

**Marks :** 1

- 1 . <>10
  - 2 . !=10
  - 3 . Not 10
  - 4 . None of these
- 

 ( This Answer is Correct )

**Q 73 :** Which property of a data type in Access can be used to set the size of data of a given type?

**Marks :** 1

- 1 . Data Size
- 2 . Field Size
- 3 . Text Size
- 4 . Type Size

 ( This Answer is Correct )

**Q 74 :** To make a relationship between two tables in MS Access, it requires:

**Marks :** 1

- 1 . A common attribute of two tables
  - 2 . Two individual attributes of two tables
  - 3 . both common and individual attributes
  - 4 . None of these
- 

 ( This Answer is Correct )

**Q 75 :** Which of the following data types is needed to declare the salary of a person in MS Access?

**Marks :** 1

- 1 . Date/time
  - 2 . Currency
  - 3 . Memo
  - 4 . Real
- 

 ( This Answer is Correct )

- Q 76 :** Condition under criteria option in an Access query to check for dates that occurred in the past: **Marks : 1**
- 1 . < Date( )  ( This Answer is Correct )
  - 2 . <> Date( )
  - 3 . < Now( )
  - 4 . <> Now( )
- 

- Q 77 :** Which of the following strings can be used in SQL to check if a name is at least 6 characters long and whether it starts with 'Am'? **Marks : 1**
- 1 . 'Am\_\_\_\_\_'
  - 2 . 'Am% % % \_ \_'
  - 3 . 'Am\_ %'
  - 4 . 'Am\_\_\_\_\_%'  ( This Answer is Correct )
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- Q 78 :** This indicates the range of frequencies that a communication channel can handle with reasonable reliability: **Marks : 1**
- 1 . Bandwidth  ( This Answer is Correct )
  - 2 . Signal to Noise Ratio(SNR)
  - 3 . Both Bandwidth and SNR
  - 4 . None of these
- 

- Q 79 :** It indicates the fixed cell in column B and row 10: **Marks : 1**
- 1 . \$B\$10  ( This Answer is Correct )
  - 2 . \$B10
  - 3 . B\$10
  - 4 . B10
- 

- Q 80 :** Condition under criteria option in an Access query to check for an exact value like 12/12/2020: **Marks : 1**
- 1 . \*12/12/2020\*
  - 2 . @12/12/2020@
  - 3 . %12/12/2020%
  - 4 . #12/12/2020#  ( This Answer is Correct )
-