# COMMON HALF YEARLY EXAMINATION- 2024 \* Standard - XII

| lime   | e: 3.00 hrs                             | COMPUTERS              | CIENCE                | Marks: 70                |
|--------|---|------------------------|-----------------------|--------------------------|
| Note:  | i) Answer all the                       | Part - I               |                       | 15-4-45                  |
|        | and write the                           | ost appropriate ans    | wer from the give     | n four alternatives      |
| 1)     | Which of the follow                     | ving is a unit of code | er:                   | in the state of          |
|        | Which of the follow code structure?     | - 4 ann or code        | a that is often defir | ned within a greater     |
|        | The data structure                      | b) Function            |                       |                          |
| 3)     | a) Built in                             | b) List                | c) Tuple              | d) Derived data          |
|        | Which members a  a) Public members      | ire accessible from    | outside the class?    | January data             |
|        | c) Secured memb                         | b) P                   | rotected members      |                          |
| 4)     | The Python promp                        | t indicates that Inter | rivate members        |                          |
| 7      | a) >>>                                  | b) <<<                 | c) #                  | accept instruction d) << |
| . 5)   | Which statement is                      | s generally used as    | 2 -placebolde-2       | d) <<                    |
|        | a). Continue                            | D) break               | 0 222                 | d) goto                  |
|        | Which of the followa) define            | b) return              | to exit a function    | block?                   |
| 7)     | What will be the o                      | utput of the following | c) finally            | d) def                   |
|        | strl="Chennai School                    | ols"                   | y code?               |                          |
|        | strl[7]="-"                             |                        | - 4 2                 |                          |
|        | a) Chennai-schools                      | b) Chenna-School       | c) Type error         | d) Chennai               |
| .0)    | If List =[17,23,41,10                   | ) then List.append(3   | 2) will result        |                          |
| 9)     | Which of the following                  | b) [17,23,41,10,32]    | c) [10,17,23,32,41]   | d) [41,32,23,17,10]      |
| inde . | created?                                | and in automat         | executed Mue          | en an object is          |
| 40)    | a) _object_()                           | b) _del_()             | c) _func_()           | d) init ()               |
| 10)    | Who developed EF a) Chen                |                        |                       |                          |
| 11)    | The command to                          | b) EF Codd             | c) Chend              | d) Chand                 |
|        | a) DROP                                 |                        | c) DELETE ALL         | d) ALTED                 |
| 12)    | A CSV file is also                      | known as a             |                       |                          |
| 4.00   | a) Flat file                            | b) 3D file             | c) String file        | d) Random file           |
| 13)    | A framework for in                      | terfacing Python and   | C++ is                |                          |
| 14)    | a) Ctypes Which of the follow           |                        |                       | d) Boost                 |
| 157/   | Which of the follow records of the data | hase?                  | clure used to trave   | erse and retch the       |
|        |   |                        | c) Cursor             | d) Insertion point       |
|        |   |                        | ,                     |                          |

#### XII COMPUTER SCIENCE (2)

15) Read the statements given below. Identify the right option from the following for pie chart.

Statement A: To make a pie chart with Matplotlib, we can use the plt.pie() function. Statement B: The autopot parameter allows us to dispay the percentage value using the Python string formatting

a) Statement A is correct

b) Statement B is correct

c) Both the Statements are correct d) Both the Statement are wrong

### Part II

#### Note: Answer any six questions. Question No. 24 is compulsory: 6×2=12

16) What do you mean by Namespace?

17) What is an Algorithm?

- 18) Write short notes on Tokens.
- 19) What is slicing?
- 20) What is the purpose of Destructor?
- 21) What is normalization?
- 22) Differentiate Unique and Primary Key constraint
- 23) What is use of next() function?
- 24) Write a query that selects all students whose age is less than 18 in order wise.

#### Part - III

## Note: Answer any six questions. Question No. 33 is compulsory:

6×3=18

- 25) Differentiate Concrete data type and abstract datatype
- 26) Why access control is required?
- 27) Explain Ternary operator with examples.
- 28) Differentiate ceil() and floor() function?
- 29) Explain the difference between del and clear() in dictionary with an example.
- 30) What is the role of DBA?
- 31) Differentiate PYTHON and C++?
- 32) Mention the difference between fetchone() and fetchmany()
- 33) Using if.....else...elif statement write a suitable program to display largest of 3 numbers

#### Part - IV

## Note: Answer all the questions:-

34) a) What are called Parameters and write a note on

 $5 \times 5 = 25$ 

[or]

- i) Parameter without Type ii) Parameter with Type
- b) Discuss about Linear search algorithm.

[or]

- 35) a) Write a detail note on for loop.
  - b) Explain the following built-in-functions. a) id() b) chr()

- c) round() d) type() 36) a) What are the different ways to insert an element in a list. Explain with [or]
  - b) Explain about string operators in python with suitable example.
- 37) a) Explain the different types of data model.

[or]

- b) Differentiate Excel file and CSV file.
- a) What is the use of HAVING clause? Give an example python script. [or] b) Explain the various buttons in a matplotlib window

