MODEL QUESTION PAPER

COMPUTER SCIENCE

XII Standard (State Board)

Time: 3 Hours   Maximum Marks: 70

General Instructions:

1. The question paper comprises of four parts.
2. You are to attempt all the parts. An internal choice of questions is provided wherever applicable.
3. All questions of Part I, II, III and IV are to be attempted separately.
4. Question numbers 1 to 15 in Part I are Multiple Choice Questions of one mark each. These are to be answered by choosing the most suitable answer from the given four alternatives and writing the option code and the corresponding answer
5. Question numbers 16 to 24 in Part II are two-mark questions. These are to be answered in about one or two sentences.
6. Question numbers 25 to 33 in Part III are three-mark questions. These are to be answered in about three to five short sentences.
7. Question numbers 34 to 38 in Part IV are five-mark questions. These are to be answered in detail Draw diagrams wherever necessary.

Part – I
Choose the correct answer.
Answer all the questions: [15 × 1 = 15]

1	If the source code of a software is freely accessible by the public, then it is known as a) Freeware b) Firmware c) Open source d) Public source	1
2	Which of the following is a software program that replicates the functioning of a computer network? a) Network software b) Network simulation c) Network testing d) Network calculator	1
3	Which is an example of network simulator? a) simulator b) TCL c) Ns2 d) C++	1
4	Which of the following can document every incident that happened in the simulation and are used for examination? a) Net Exam b) Network hardware c) Trace file d) Net document	1

5	Fill in the blanks: NS2 comprises of _____ key languages? a) 13 b) 3 c) 2 d) 4	1
6	Which operator is also called as Comparative operator? A) Arithmetic B) Relational C) Logical D) Assignment	1
7	Who developed Python? A) Ritchie B) Guido Van Rossum C) Bill Gates D) Sunder Pitchai	1
8	Which of the following is an open source network monitoring software? a) C++ b) OPNET c) Open NMS d) OMNet++	1
9	Based on the monetary value e payment system can be classified into a) Mirco and Macro b) Micro and Nano c) Maximum and Minimum d) Maximum and Macro	1
10	Which of the following is not a category of micropayment? a) Buying a movie ticket b) Subscription to e journals c) Buying a laptop d) Paying for smartphone app	1
11	4.Which of the following keyword is used to begin the function block? (a) define (b) for (c) finally (d) def	1
12	Which of the following keyword issued to exit a function block? (a)define (b)return (c)finally (d)def	1
13	Which of the following is the output of the following python code? str1="TamilNadu" print(str1[::-1]) (a)Tamilnadu (b)Tmlau (c)udanlimaT d)udaNlimaT	1
14	Strings in python: (a)Changeable (b)Mutable (c)Immutable (d)flexible	1
15	9.Which of the following issue displace holders or replacement fields which Get replaced along with format () function? (a){} (b)<> (c)++ (d)^^	1

Part – II

Answer any six questions.

Question No. 21 is compulsory. [6 x 2 = 12]

16	List some DDL commands in SQL?	2
17	Explain about function parameters?	2
18	Write a short about the string in python?	2
19	Short notes on tuple in Python?	2
20	Write note on constructor?	2
21	What is data and Information.	2
22	What do DML commands?	2
23	Which of the following module is provided by Python to do several operations on the CSV files?	2
24	Write the features of CSV files?	2

Part – III
Answer any six questions.
Question No. 29 is compulsory. [6 × 3 = 18]

25	What is python?	3
26	What is comments in python?	3
27	Write some data type in python?	3
28	Give any 6 keywords in python?	3
29	Define lists in python?	3
30	What are the advantages of dictionary over a list?	3
31	How will you create a tuple in python?	3
32	How to convert a number to string?	3
33	What are the roles of ** operator?	3

Part – IV
Answer all the following questions. [5 × 5 = 25]

34	(a) Name the methods used for reading and writing data from text file? [OR] (b) Write Python program to find the sum of natural numbers up to n using recursive function?	5
35	(a) Define - Stack, Queue, Tree? [OR] (b) Name some linear and non-linear data structures?	5
36	(a) Explain the DML commands of DBMS? [OR] (b) Write any three DDL commands?	5
37	(a) Explain about checksum? [OR] (b) What is TCP/IP in network?	5
38	(a) What is result set? Explain with example? [OR] (b) Write code for database connectivity?	5