2022 XI 21 0230 Seat No. | | | | | |

Time : 1 Hour

# FIRST-TERM

# SOFTWARE TECHNOLOGY

**Subject Code**

| V | 5 | 3 | 1 | 5 |
|---|---|---|---|---|

**Total No. of Questions : 20** **(Printed Pages : 8)** **Maximum Marks : 20**

***INSTRUCTIONS :*** (*i*) *All* questions are compulsory.

(*ii*) Every question has four choices (A), (B), (C) and (D) and only one of them is the correct answer.

(*iii*) On the OMR sheet darken completely with a ball point pen ONLY ONE bubble you consider as the most appropriate answer.

(*iv*) Multiple markings are invalid.

(*v*) Use Blue or Black ball point pen only.

(*vi*) Do not fold the OMR sheet or use white ink.

(*vii*) For each question, you will be awarded ONE mark, if you have darkened only the bubble corresponding to the correct answer. In all other cases, you will get zero mark. There is no negative mark.

(*viii*) Once the bubble is filled, it is not possible to change the answer.

(*ix*) Only one OMR sheet will be provided.

Hence sufficient care must be taken while darkening the bubble.

1. Which of the following function checks in a string that all characters are numeric ?

(A) islower()

(B) isdigit()

(C) istitle()

(D) isnumeric()

2. Suppose L = [5, 10, 15, 20]

What will be the output of the following Python statement ?

print(L[–1])

(A) 5

(B) 10

(C) 15

(D) 20

3. How many times the following loop will run ?

For i in range (5, 25, 5) :

print (i)

(A) 4

(B) 3

(C) 2

(D) 1

4. Suppose D={1:"one", 2:"two", 3:"three", 4:"four"}

What will be the output of the following Python statement ?

print(D. keys())

(A) [1, 2, 3]

(B) [2, 3, 4]

(C) [1, 2, 3, 4]

(D) [4, 3, 2, 1]

5. The dictionary is :

(A) Immutable

(B) Mutable

(C) Iterated

(D) Repetitive

6. The items in a dictionary are surrounded by which character ?

(A) [ ]

(B) { }

(C) ( )

(D) < >

7. Suppose D={1:"one", 2:"two", 3:"three"}

What will be the output of the following Python statement ?

print(len(D))

(A) 1

(B) 2

(C) 3

(D) 4

8. The content of dictionary as a list of key and value is displayed using the method :

(A) has_key()

(B) items()

(C) get()

(D) clear()

9. Which is the build-in function to create an empty dictionary d ?

(A) d = ()

(B) d = [ ]

(C) d = <dict>

(D) d = dict()

10. Which of the following dictionary method is used to merge two dictionaries into one ?

(A) get()

(B) update()

(C) values()

(D) keys()

11. Which of the following network connects within a building or a campus ?

(A) WAN

(B) MAN

(C) LAN

(D) PAN

12. Name the physical path over which a message travel.

(A) Path

(B) Medium

(C) Protocol

(D) Route

13. WAN stands for :

(A) World Area Network

(B) Web Area Network

(C) Wide Area Network

(D) Web Access Network

14. Name the type of network which uses radio waves or micro waves to communicate with other workstations :

(A) Wired

(B) Public

(C) Wireless

(D) Private

15. Walkie-talkie is an example of :

(A) Simplex mode

(B) Half duplex mode

(C) Full duplex mode

(D) Multiplexer

16. The term given for interconnection of two or more computers to exchange data and recourses :

(A) Computer

(B) Node

(C) Exchange

(D) Network

17. In which topology, each node is connected to the adjacent node in a circular form ?

(A) Star

(B) Tree

(C) Ring

(D) Mesh

18. Physical or logical arrangement of network nodes is called :

(A) Network topology

(B) Bus topology

(C) Tree topology

(D) Ring topology

19. The transfer of data in the form of electrical signals or in a continuous wave form is :

(A) Radio

(B) Digital

(C) Analog

(D) Optical

20. Name the topology which integrates the characteristics of Star and Bus topology ?

(A) Star

(B) Tree

(C) Bus

(D) Mesh