$15 \times 1 = 15$ 

**Choose the Best Answer** 

### **Quarterly Examination - Model Question Paper 1-2018-19**

## STD XI Computer Science Time: 2.30 Hrs Marks:70

1.	Which is a raw	fact about an entity?				
		b) processed data	c) data	d) red	eord	
2.		Neural Networks is a sub-	,	3.)		
a)	AI	b) Hardware enhancemen		d) no	ne of these	
3.		nethod to represent negative	,			
	•	b) sign bit or parity bit	•			
4.	-	ic electronic circuit which	•	,		
a)		b) Fundamental Gates	_		_	
5.	Which of the fo	ollowing is used to measur	e the wave frequ	ency?		
a)	Internal memory	b) RAM	c) ALU		d) Hertz	
6.	The speed at w	hich the microprocessor ex	xecutes the instru	ictions is	called	
a)	Word size	b) instruction set	,	-	d) control flow	
7.		nsists of a collection of pro	ocesses classified	l into hov	w many categories?	
a)	2	b) 4	c) 3		d) 5	
8.		ollowing is not an algorith				
	FIFO	b) SJF	c)NTFS		d) RR	
9.		ault browser for UBUNTU				
	Internet Explorer		c) FireFor		,	
		unctional keys brings the f		menu of		
a) <	F5	b) F8	c) F10	11	d) F11	
11. Ensuring the input-output relation is:						
	a) The responsibility of the algorithm and the right of the user					
-						
-	The responsibility of the algorithm but not the right of the user					
<ul><li>d) The responsibility of both the algorithm and the user</li><li>12. Which are the named boxes for storing the data?</li></ul>						
		b) Programme			d) functions	
13.		d c2 is true, the compound			d) functions	
13.	If c1	1 02 is true, the compound	Statement			
	S1					
	Else					
	If c2					
	S2					
	Else					
	S3					
	Executes					
	a) S1	b) S2	c) S3		d) S1 and S2	
14.	Which of the fo	ollowing statement is true				
a)	a) Algorithm cannot be expressed in pseudo code					
	c) Pseudo code can be executed by a computer directly					
-	d) Pseudo code cannot be executed by computer directly					
15.	15. If m x a + n x b is an invariant for the assignment a, $b := a + 8$ , $b + 7$ , the values of m					
	and n are					

a) 
$$m = 8, n = 7$$

b) 
$$m = 7$$
,  $n = -8$ 

c) 
$$m = 7$$
,  $n = 8$ 

d) 
$$m = 8$$
,  $n = -7$ 

#### Answer any six of the following. Question No 20 is Compulsory

 $6 \times 2 = 12$ 

- 16. State the functions of a memory
- 17. Define a track ball
- 18. What is a truth table?
- 19. How would you delete a table and delete the contents of a table?
- 20. Define Word Size
- 21. List the different memory management techniques
- 22. Distinguish between an algorithm and a process
- 23. Define a flow chart
- 24. What is an invariant?

#### Answer any six of the following. Question No 28 is Compulsory

 $6 \times 3 = 18$ 

- 25. What is the difference between warm booting and cold booting
- 26. Explain any two input devices other than keyboard and mouse
- 27. Do the following
  - a) convert the decimal number 0.25 into its binary
  - b) convert the decimal number 165 into its hexa decimal
- 28. What are the three main units of a microprocessor?
- 29. State the significance of Cortana
- 30. How is a conditional control flow represented in a flow chart?
- 31. What is case analysis?
- 32. What is meant by decomposition?
- 33. What is recursive problem solving?



# Answer the following questions

34. Write a note on the pointing devices

(OR)

Discuss the various generations of a computer

- 35. Perform the following binary computations.
  - a) -12 + 5
  - b) Convert the hexa decimal number into its binary 9BCA
  - c) Give the truth table for XNOR gate
  - d) Find the 2'S complement for -97
  - e) Subtract 11010111 110101

(OR)

Explain the Ports and Interfaces of a computer

36. Explain in detail the various types of storage device

(OR

Explain the Process Management Algorithms

37. Draw and compare the Icons which are equivalent in Windows and Ubuntu

(OR

Explain about the various indicators in the menu bar of Linux – Ubuntu operating system

38. There are seven tumblers on a table, all standing upside down. You are allowed to turn any 2 tumblers simultaneously in move. Is ti possible to reach a situation where all the tumblers are right side up.?? Explain

Write a recursive algorithm to find the factorial of a given number