

SETHU BHASKARA MAT. HR. SEC. SCHOOL

QUARTERLY EXAMINATIONCOMPUTER SCIENCE - ANSWER KEYCLASS: XII Choose the Best Answer

[15X1 = 15]

1. b. 2.
2. b. Finger print Scanner
3. c.  $2^{40}$
4. a. A
5. c. Universal Gates
6. c. A6
7. d. Pentium IV
8. b. M.S. Word
9. a. Windows XP
10. a. Graphical User Interface
11. c. Pits.
12. a. Firefox
13. Ma
14. a. S1; S3
15. d.  $m=8, n=-7$ .

Section - IIAnswer any 6 Questions.

16. Any relevant - 1 point Artificial Intelligence. (2)
17.  $(8888)_8$  is not an octal Number. Because the octal no should be between 0-7. (2)
18. Types of RAM:- 2 Types (1)
  - Dynamic RAM
  - Static RAM (1)
19. Software and its Types:-
  - Definition (1)
  - Types of Software (1)

20. Difference between click and Double click:-  
 click - To select. (1)  
 Double click - open an application (1)

21. Recycle bin:-  
 Folder hold the deleted files (2)

22. Pseudo Code:- (2)  
 → Mix of Programming language like Constructs  
 and plain.  
 → Notation is not formal or exact

Any two relevant points.

23. Invariants:- (2)  
 Definition

24. Multitasking:- (2)  
 Definition

Section - III

Answer any 6 questions.

25. Fingerprint Scanner Working:- (3)  
 Any 3 valid points

26. Expand. (3)

(i) BCD :- Binary Coded Decimal (1½)

(ii) ASCII :- American Standard Code for Information Interchange. (1½)

27.  $C = A + B$ .  
 → This expression belongs to OR operator (1)  
 → OR Truth Table (1)  
 → Diagram (1)

28. Cache + Flash memory difference:- (3)  
→ Any two relevant points

29. Android OS:-  
→ Mobile OS (1)  
→ 6 versions (2).

30. (i) Switch user (1)  
(ii) Log off (1)  
(iii) Restart (1)

31. Versions of Linux. (3)

32. Merits and Demerits of Time Sharing OS (3).  
(3 points)

33. Usage of Cortana:- (3)  
→ 3 uses

Section IV

34. Generations of Computer:- (5)  
→ 6 Generations Explanation

8 (OR)

- a. Data (1)
- b. Hard ware (1)
- c. Natural language processing (1)
- d. Types of memory. (1)
- e. Bit. (1)

35. Expression and Truth table

- AND
  - OR
  - NOR
  - NAND
  - NOT
- (5)

(OR)

- (i)  $(65)_{10} \rightarrow 1000001_2$
  - (ii)  $(5AF)_{16} \rightarrow 0101\ 1010\ 1111_2$
  - (iii)  $(12.29)_{10} \rightarrow 1100.0100\ 1010001_2$
  - (iv)  $(452)_8 \rightarrow 100101010_2$
  - (v)  $(1100101)_2 \rightarrow 145_8$
- (5)

36. ROM + its Types:-

$\rightarrow$  Rom + its Types explanation. (5)

(OR)

Merits + Demerits of open source operating system:-

Any 5 points (5)

37. Any 5 icon in windows + Ubuntu

5 icons (5)

(OR)

Quadratic equation:-

$$ax^2 + bx + c = 0.$$

- $\rightarrow$  Quadratic equation (a, b, c)
- $\rightarrow$  i/p : a, b, c  $\rightarrow$  Real number,  $b \neq 0$
- $\rightarrow$  o/p : 2 roots  $r_1, r_2$

$$r_1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

$$r_2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

(5)

38. Add the following.

(i)  $-18 + -25 \rightarrow 111010101_2$  (2 1/2)

(ii)  $-63 + -14 \rightarrow 100110011_2$  (2 1/2)

(OR)

Any 3 OS Explanation (5)

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