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Half-yearly Common Examination - 2018

XI C.Sci - Keys.

Part A

i) Choose the correct answer :-

15x1 = 15

1. C, fifth
2. B, C
3. B, Both
4. C, iii
5. A, Mark Shuckle worth
6. C, 3
7. B, $m=7, n=-8$
8. C, C++ has not a function library
9. goto
10. A, base - exponent
11. A, Structure Variable
12. B, (i) and (iii) only
13. B, void fun (int x); void fun (int y);
14. D, Class student : public school
15. C, Salami slicing.

Part B

ii) Answer any 6 questions:

6x2 = 12

16. (i) 11111001₂ (1)
- (ii) 0110001₂ (1)

M. Math
12/12/18

L. Anandraj Anand

Shanthi. A/12/12

P. Pruthis
12/12/18

17. Security Management features:
 (i) file access level 2, system level 3, network level (2)
18. Choose session Indicator on the far right side of the top panel (2)
19. Abstraction is the process of ignoring or hiding irrelevant details and modeling a problem only by its essential features (2)
20.


```

i = 3;
while (i <= 30)
{
  cout << i;
  i = i + 2;
}
  
```

 (2)
21. data type arrayname [row-size] [column size]; (2)
22. Dis-Advantages of oops } - Any 2 (2)
 Size, Effort, speed
23. Private visibility mode
 (i) Public and protected members of the base class become private members of the derived class.

Public visibility mode

Public remains as public members, protected members remain as protected members.

24. Digital Signature: Based on asymmetric cryptography and can provide assurance of evidence to origin, identity and status of electronic document, transaction or message as well as acknowledging informed by the signer.

iii) Answer any 6: Section C

$6 \times 3 = 18$

25. Optical Mouse

Laser mouse

1) use light source.

It uses laser light

2) It is less sensitive towards hard surface.

It is highly sensitive towards hard surface.

26. Android } (1)
ios - iphone os }

Explanation (2)

27. Create a file → File → New (1)

Save the file → File → Save (1)

Rename Right click → Rename (1)

(or)
File → Save As (1)

28. Case analysis generalized it to multiple statements (1)

It splits the problem into exhaustive set of

disjoint cases (1)

For each case, the problem is solved

independently (1)

29. Syntan error

(i) Occurs when grammatical rules are violated.

Logical error

occurs wrong usage of variable / operators / order of execution

30. (i) strcat() — Combining / appending the given two strings.

(ii) strupr() — Convert the given string to upper case

(iii) strlwr() — Convert the given string to lower case.

31. Modulanisation

(i) Program can be decomposed into modules

Software re-use

Program can be composed from existing and new modules.

32. Characteristics of Constructor :

Any three characteristics (3)

33. Function Overriding :

When the base class and

derived class has the same name member function, the derived class member function hides the base class member function is called function overriding.

Part c

ii) Answer all the questions:

5x5=25

34. Clock speed } Listing (1)
 Instruction set }
 word size } Explanation (4)

(or)

Any 5 icons in Windows and Ubuntu (5)

35. i) exchange (a, b)

-- inputs : a, b one integers, $a \neq 0$, $b \neq 0$. (5)
 -- outputs : a, b one integers.

k := a

a := b

b := k

(or)

(2)

ii) Definition
 iii) int factorial (int m)

{ if (m > 1)

{ return m * factorial (m-1);

}

else return 1;

}

(3)

Binary Operators in C++

Arithmetic operator (2)	}	(5)
Relational operator (2)		
Logical operator (1)		

(Or)

Control Statement - Definition (1)	}	(5)
Sequence statement (2)		
Iteration Statement (2)		

37. Call by value - Definition (2)

Example (2)	}	5
Conclusion (1)		

(Or)

Different types of Inheritance

Single Inheritance	}	5
Multiple Inheritance		
Multi-level Inheritance		
Hybrid Inheritance		
Hierarchical Inheritance		

5 copy
650000

38. (i) Any 10 errors each 1/2 - 5 (Or)

Output:

Constructor of class - simple
 Enter values for a and b (sample data 6 and 7)....
 The two integers are 6 7
 The sum of the variables $6 + 7 = 13$
 Destructor is executed to destroy the object

Handwritten signature