

Duration:- 45 minutes

Marks:- 15

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**ANSWER THE FOLLOWING :-**

1. What is a Magnetic Disk ? (2 mks)
2. Perform the following operations. (1 mk x 2 = 2 mks)
  - i.  $(-4) + (+4)$
  - ii.  $(+7) + (+6)$
3. Perform the following conversions. (1.5 mk x 2 = 3 mks)
  - i.  $(10101)_2 = (X)_{10}$
  - ii.  $(48)_{10} = (X)_2$
4. Explain the various elements of Cache Design. (4 mks)
5. Explain the structure of the Dynamic RAM with the diagram. (4 mks)

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B.C.A. (Semester I) Intra Semester Assessment (ISA)(test III), September 2017

**ENVIRONMENTAL STUDIES**

Duration: 45minutes

Marks:10

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- Q. 1) State different reasons of Land degradation? (2 mks)
- Q. 2) Explain different forms of Renewable energy sources. ( 2mks)
- Q. 3) Explain in detail types of Ecosystem. (2 mks)
- Q. 4) What is an Ecological Pyramid? State its types. (2 mks)
- Q. 5) Give characteristic features of Taiga Forests. (2 mks)

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**BUSINESS ACCOUNTING**

Duration: 45minutes

Marks:15

Q. 1) Given is the extracts of Trial balance of M/S Nagesh Traders as on 31<sup>st</sup> March 2015 and you are required to prepare balance sheet as on the same date as per revised schedule of the Companies Act. (10 mks)

**Trial Balance for the year ended 31/3/2015**

<u>Authorised Share Capital</u>	
7000 6% preference shares of `100 each	7,00,000
20000 Equity shares of `100 each	20,00,000
<u>Subscribed Share Capital</u>	
4000 6% preference shares of `100 each	4,00,000
Equity share Capital	11,00,000
Laundry charges	3,000
Capital Reserve	20,000
Purchases	27,000
General Reserve	90,000
Wages & Salaries	15,000
Rent	10,000
Sales	1,20,000
Plant & Machinery	6,50,000
Opening Stock	30,000
Creditors	35,000
Furniture	70,000
Bills payable	5,000
Cash in hand	7,700
Cash at Bank	85,000
Trade receivables	25,000
8% debentures	4,00,000
Land & building	10,00,000

Additional information:

- 1) Closing stock ` 45,200/-
- 2) Provide depreciation @ 10% on Plant/Machinery and furniture respectively.
- 3) O/S salaries & wages ` 4000/-
- 4) Prepaid rent ` 2,000/- Transfer to GIR ` 2000/-

Q. 2) Explain the following:-

- 1) Depreciation (1 mk)
- 2) Reducing balance Method. (1 mk)
- 3) Revenue Expenditure with examples. (2 mks)
- 4) Fixed assets with examples. (1 mk)

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**PROBLEM SOLVING & PROGRAMMING CONCEPT**

Duration: 45minutes

Marks:15

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Q. 1) Answer the following:-

1. Define an Array. ( 2 mks)
2. State how an array is Initialized? ( 2 mks)
3. Identify errors, if any, in each of the following array declaration  
Statements. ( 2 mks)
  - a) Float values [ 10,15];
  - b) Char S1[5], S2[10];  
    gets(S1, S2);
4. Discuss the different approaches to reading strings. (3 mks)
5. Write a program to find squares of 10 numbers.  
    Using arrays. (3 mks)
6. Write a program to read and display strings. (3 mks)

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