**National College of Computer** **Studies**

**(NCCS-College of IT & Management)**

**Final Examination (2019)**

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| **BCA/First Semester/ CACS101: Computer Fundamentals & Applications** |

***Candidates are required to answer the questions in their own words as far as practicable.***

**Full Marks: 50**

**Time: 2hr 40 min**



**Set A**

**Group A**

**Attempt any six questions: [6×5=30]**

1. Explain the different types of computer based on working principle.  **[5]**
2. What is database model? List the different database model and explain any two of them.  **[5]**
3. What is WWW? Differentiate between Internet, Intranet and Extranet. **[5]**
4. What is topology? Explain different types of topology with merits and demerits.  **[5]**
5. What is operating system? Explain types of operating system with examples. **[1+4]**
6. What is multimedia? Explain the elements of multimedia. **[1+4]**
7. Write the DOS command to complete the following tasks:  **[5]**
   1. Create sub directory BCA, BHM, CSIT inside e:\TU
   2. Create the file name “info.txt” inside BCA with content “Welcome to BCA”
   3. Rename the file “info.txt” to “tubca.txt”.
   4. Hide the file “tubca.txt”
   5. Format the pen drive which has drive letter h: in your computer

**Group B**

**Attempt any two questions [2×10=20]**

1. i. Provided the following data:

XYZ college

Mark-ledger

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | J |
| 1 | Name | Math | Sociology | CFA | DL | English | Total | percentage | result | Division |
| 2 | Aman | 74 | 37 | 65 | 76 | 89 |  |  |  |  |
| 3 | Aaush | 78 | 65 | 45 | 78 | 76 |  |  |  |  |
| 4 | Bibek | 67 | 34 | 67 | 65 | 56 |  |  |  |  |
| 5 | Hari | 76 | 46 | 55 | 45 | 66 |  |  |  |  |

* 1. Calculate total marks  **[1]**
  2. Calculate percentage  **[1]**
  3. Calculate result “PASS” or “FAIL” (Pass mark>=40)  **[1.5]**
  4. Calculate division [if result is pass and percentage>=80 then Distinction, if percentage<80 and percentage >=60 then First, if percentage<60 and percentage >=50 then Second and percentage<50 then THIRD otherwise “----”] **[1.5]**

1. Explain the feature of Review tab in MS word. **[5]**
   1. Differentiate impact printer with non-impact printer. **[5]**
   2. What is presentation package? List the features of presentation package. **[5]**
2. What is RGB? Discuss the different transformation on image in Photoshop. Explain selection tools in Photoshop.  **[2+8]**

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**Full Marks: 50**

**Time: 2hr 40 min**



**Set B**

**Group A**

**Attempt any six questions: [6×5=30]**

1. What is AI? Explain the uses of AI.  **[5]**
2. What is DBMS? Discuss the advantages of DBMS approach over file processing of data.  **[1+4]**
3. What is operating system? Explain function of an OS.  **[5]**
4. Explain different types of computer network based on size.  **[5]**
5. What is e-governance? Discuss its advantages and disadvantages.  **[1+4]**
6. With reference to block diagram, explain the function of different component of computer.  **[1+4]**
7. Write the DOS command to complete the following tasks:  **[5]**
   1. Create sub directory BHM, BCA, CSIT inside e:\XYZ
   2. Create the file name “college.txt” inside CSIT with content “Welcome to XYZ”
   3. Rename the file “college.txt” to “bestcollege.txt”.
   4. Set the attribute read only to file “mycollege.txt”
   5. Format the pen drive which has drive letter **e**: in your computer

**Group B**

**Attempt any two questions [2×10=20]**

1. **i**. Given the S.N., Name, telephone number, total call of five customer.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I |
| 1 | S.N. | Name | Tel No. | Total call | Excess call | Initial bill amount | Service charge | VAT | Final bill amount |
| 2 | 1 | Aman | 1433987 | 245 |  |  |  |  |  |
| 3 | 2 | Bibek | 1555555 | 564 |  |  |  |  |  |
| 4 | 3 | Hari | 1455678 | 145 |  |  |  |  |  |
| 5 | 4 | Sita | 1433556 | 200 |  |  |  |  |  |
| 6 | 5 | Gita | 1476543 | 56 |  |  |  |  |  |

* 1. Calculate Excess call. [minimum call= 200 and above 200 is excess call]  **[1]**
  2. Calculate initial bill amount. [minimum charge 200 + charge of excess call. Charge for excess call is Rs. 2/excess call] **[1]**
  3. Calculate service charge.[12% of initial amount]  **[1]**
  4. Calculate VAT [13% of sum of initial amount and service charge]  **[1]**
  5. Calculate final bill amount.  **[1]**

1. What is memory? Differentiate Static RAM with Dynamic RAM.  **[5]**
   1. What is application software? Explain its type with suitable example.  **[5]**
   2. Explain the feature of font control tab in MS-WORD.  **[5]**
2. What is CMYK? Discuss the different transformation on image in Photoshop. Explain marquee tool in Photoshop. **[10]**

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