

- N.B. : (1) All questions carry equal marks and are compulsory.  
(2) Figures to the right indicate maximum marks for a question.

1. (A) Attempt any one sub-question from a, b (E-Commerce)
  - (a) Explain the features of E-Commerce. 8
  - (b) Explain the various security issues in E-Commerce. 8
- (B) Attempt any one sub-question from d, e (E-Commerce)
  - (d) What is Encryption and Decryption ? What is Private and Public key Encryption ? 7
  - (e) Explain B2C and C2C types of E-Commerce. 7
2. (A) Attempt any two sub-questions from a, b, c in C Language.
  - (a) Write a program in C to input the number of telephone calls and calculate and display the bill amount where the first 80 calls are free and on the excess calls a payment @1.00 is to be made. Also a rent of ₹ 250 has to be included in the bill amount. 5
  - (b) What is the output of the following C program ? 5
 

```
main()
{ int a = 10, b = 5, c, d;
  a+=-b*3;
  b*=7;
  c=b%a;
  d=++c+2*b;
  printf("%d %d %d %d\n",a,b,c,d);
}
```
  - (c) Write a program in C to find and display the sum of  $2/5^2 + 5/9^2 + \dots + 302/405^2$  5

OR

2. (A) Attempt any two sub-questions from x,y,z in Visual Basic.
  - (x) Write a project in Visual Basic to design a suitable form to enter any two integers and display average of the two integers. 5
  - (y) Write a project in Visual Basic to design a suitable form to enter height of a person and display the message "Allowed to take a ride" if height is 54 inches or more else display the message "Sorry ! Not Allowed to take a ride". 5

- (z) Write a project in Visual Basic to design a suitable form to enter salary earned by an employee and display the tax to be paid by using the following rules. 5

| Salary            | Tax           |
|-------------------|---------------|
| Less than ₹100000 | Nil           |
| ₹100000-₹199999   | 10% of salary |
| ₹200000 or more   | 20% of salary |

- (B) Attempt any one sub-question from d,e in Spreadsheet.

- (d) There is worksheet containing cricketer's details such as name, country, number of matches played in columns A, B, C respectively for 20 players entered in columns 2 to 21. The first row contains headings. Write steps to,

- Show rows where the players are from "India" ..
- Show rows where the players name starts with "S".
- Show the rows of players who have played 100 matches or more.

- (e) The following data has been entered in a worksheet. 5

|   | A   | B         | C   | D   | E    | F       | G     |
|---|-----|-----------|-----|-----|------|---------|-------|
| 1 | RNO | NAME      | ACC | ECO | COMP | AVERAGE | GRADE |
| 2 | 104 | ANITA     | 45  | 50  | 70   |         |       |
| 3 | 109 | MONA      | 60  | 85  | 73   |         |       |
| 4 | 112 | RAJA      | 55  | 60  | 95   |         |       |
| 5 | 117 | SHAMBHAVI | 47  | 74  | 46   |         |       |
| 6 |     |           |     |     |      |         |       |

Write the steps to compute Average marks in column F and Grade in column G as per the following criteria.

| Average                     | Grade |
|-----------------------------|-------|
| 60 or more                  | A     |
| less than 60 but 45 or more | B     |
| less than 45                | C     |

3. (A) Attempt any two sub-questions from a,b,c in C Language.

- (a) A wholesaler gives discount on the basis of order amount as follows : 5

|               |             |
|---------------|-------------|
| First ₹ 9,000 | 2% discount |
| Next ₹ 21,000 | 3% discount |
| Excess        | 4% discount |

Write a program in C to input customer name and order amount and display customer name, order amount and discount.

- (b) Give the output of the following C program.

5

```
main()
{char n[] = "karishma";
int j;
for(j=8; j>=0; j--)
putchar(n[j]);
}
```

- (c) Answer the following with reference to C Language.

5

- (1) What is a keyword ?
- (2) Give one difference between gets () and scanf()
- (3) Give one difference between break and continue.

OR

3. (A) Attempt any two sub-questions from x,y,z in Visual Basic.

- (x) Write a project in Visual Basic to design a suitable form to enter any positive integer and display whether it is divisible by 7 or not. 5
- (y) Write a project in Visual Basic to compute and display the sum of odd numbers from 11 to 20. 5
- (z) Write a project in Visual Basic to design a suitable form to enter the length of the side of a square and compute and display its area. (area=side<sup>2</sup>) 5

- (B) Attempt any one sub-question from d,e in Spreadsheet.

- (d) The following data of number of students in a College has been entered in a worksheet : 5

|   | A    | B         | C          | D          | E     |
|---|------|-----------|------------|------------|-------|
| 1 | Year | F.Y.B.Com | S.Y.B.Com. | T.Y.B.Com. | Total |
| 2 | 2001 | 1200      | 920        | 850        |       |
| 3 | 2002 | 1220      | 1000       | 900        |       |
| 4 | 2003 | 1230      | 1100       | 970        |       |

Based on these values, write steps to

- (i) Find total number of students for each year.
- (ii) To construct Pie chart of number of students for the year 2003.
- (iii) To construct Line chart for F.Y.B.Com and T.Y.B.Com students.

- (e) Explain the following built in functions in Spreadsheet. 5

1. MID()
2. YEAR()
3. LOOKUP()
4. UPPER()
5. SUMIF()

Con. 5235-14.

TURN OVER

4. (A) Attempt any two sub-questions from a,b,c in Spreadsheet (True/False) 2
- (a) When data is sorted, some rows may be hidden.
  - (b) If there is a change in the source workbook, the linked dependent workbook is not automatically updated.
  - (c) A chart cannot be moved around on a worksheet.

- (B) Attempt any four sub-questions from d,e,f,g,h, i in C Language. 4
- (Multiple Choice)

- (d) The format character used to represent the data type double is \_\_\_\_\_.  
 (1) %lf (2) %f (3) %d (4) %ld
- (e) A keyword is a \_\_\_\_\_ word.  
 (1) user defined (2) reserved (3) not reserved (4) string
- (f) To increase the value of y by one we can use \_\_\_\_\_.  
 (1) y-- (2) --y (3) y+1 (4) ++y or y++
- (g) The getchar( ) function is used to receive a \_\_\_\_\_ character.  
 (1) multiple (2) many (3) single (4) different
- (h) To terminate the loop and take the control out of it we use \_\_\_\_\_.  
 (1) continue (2) break (3) case (4) exit
- (i) The \_\_\_\_\_ loops check the condition of the loop at the beginning of the loop.  
 (1) while() and for() (2) do..while() and for()  
 (3) while() and do..while (4) for() and switch()

OR

- (B) Attempt any four sub-questions from d,e,f,g,h,i in Visual Basic. 4
- (Multiple Choice)

- (d) An object is made up of \_\_\_\_\_.  
 (1) Properties (2) Methods (3) Events (4) All of the above
- (e) Visual Basic projects are identified by a \_\_\_\_\_ suffix.  
 (1) .VBP (2) .MAK (3) .FRM (4) .BAS
- (f) A variable declared inside a procedure has \_\_\_\_\_ scope.  
 (1) Global (2) Module level (3) Local (4) General
- (g) \_\_\_\_\_ statement is optional in If-Then statement.  
 (1) If (2) Then (3) Else (4) Both (1) and (2)

- (h) The standard prefix for a dialog box control is \_\_\_\_\_.  
 (1) dlg (2) dil (3) dlc (4) dia
- (i) ComboBox has the features of \_\_\_\_\_ controls.  
 (1) List Box & MsgBox (2) Label & TextBox  
 (3) ListBox & InputBox (4) ListBox & TextBox

**(C) Attempt any four sub-questions from j,k,l,m,n,o, in E-Commerce (True/False)**

4

- (j) In Public Key Encryption there are two keys, one private and the other public.
- (k) In C2C E-Commerce consumers transact with other consumers through a physical market.
- (l) In E-Commerce Ubiquity refers to Universal Standards.
- (m) In the suscription model a fee is charged to the user for having access to material on the website.
- (n) Decryption means converting readable text into cipher text.
- (o) Secure Socket Layer is a protocol developed by Netscape for security of data in transit.

**(D) Attempt any five sub-questions from p,q,r,s,t,u,v,w in E-Commerce (Multiple Choice)**

5

- (p) The full form of B2B in E-Commerce is \_\_\_\_\_.  
 (1) Bill to Bill (2) Business to Business  
 (3) Bill to Business (4) Business to Bill
- (q) The full form of WAP in E-Commerce is Wireless \_\_\_\_\_ Protocol.  
 (1) And (2) App  
 (3) Application (4) Area
- (r) The percentage of persons who visit a website and buy something is called \_\_\_\_\_.  
 (1) Hits (2) Conversion Rate  
 (3) Affiliate (4) None of these
- (s) E-Commerce means \_\_\_\_\_.  
 (1) Buying and selling (2) Buying and selling over the internet  
 (3) Accounting on the internet (4) None of these
- (t) In E-Commerce to authenticate the sender of the message we use \_\_\_\_\_.  
 (1) Digital Signature (2) Privacy Protocol  
 (3) Digital Sending (4) Digital Protocol

- (u) The full form of SET in E-Commerce is Secure Electronic \_\_\_\_\_.  
(1) Transit (2) Tunnel  
(3) Territory (4) Transaction
- (v) Encryption refers to \_\_\_\_\_.  
(1) Converting plain text into binary numbers  
(2) Converting plain text to cipher text  
(3) Converting cipher text to plain text  
(4) None of the above
- (w) M-Commerce means buying and selling of goods and services using \_\_\_\_\_.  
(1) Laptops (2) PC  
(3) Mobile phones (4) None of these
-