computer system & Appln.

Q P Code : BF-7354

(2 Hours) [Total Marks : 60

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 5
$2/5^2 + 5/9^2 + \ldots\ldots + 302/405^2$

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

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(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, 5

(i) Show rows where the players are from "India" ..

(ii) Show rows where the players name starts with "S".

(iii) 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.

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(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^2) 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.BCom.	T.Y.BCom.	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()

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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)

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(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 4
(True/False)

(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 5
(Multiple Choice)

(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

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(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

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