

Computer Systems & Applications (Sem-VI)

April - 2015

Note: (1) All questions are compulsory.

- (1) (A) Attempt any two sub-questions from a, b and c in MS-Excel (True/False). (2)
- (a) TODAY() function returns today's date and time.
 - (b) Goal Seek allows you to solve for more than one variable.
 - (c) A function must not contain another function in its argument.
- (B) Attempt any two sub-questions from d, e and f in VISUAL BASIC (Multiple Choice). (2)
- (d) In a VB project, the form design is carried out in the _____ window.
(i) Properties (ii) ToolBox (iii) Project Explorer (iv) Form window
 - (e) The standard prefix for Option Button is _____.
(i) obt (ii) opt (iii) obu (iv) ppt
 - (f) A Control named "cmdExit" is most likely a _____.
(i) Command button (ii) Label (iii) Form (iv) Image
- (B) Attempt any six sub-questions from g, h, i, j, k, l, m, n, o in E-Commerce (True/False). (6)
- (g) E-Commerce helps us to buy products from global sellers.
 - (h) Websites that supply different types of online information are content provider.
 - (i) In Public Key encryption there are two keys.
 - (j) Security is the major drawback of E-Commerce.
 - (k) Banners and sponsorships are examples of subscription revenue model.
 - (l) Integrity in E-Commerce security ensures that data is not altered during transmission.

- (m) In SET, the customer's credit card number is seen by the merchant.
 (n) Authentication ensures that the message is not read by others.
 (o) Payment is done only by debit Card in E-Commerce.

(D) Attempt any five sub-questions from p, q, r, s, t, u, v, w in E-Commerce (Multiple Choice): (5)

- (p) Buying and selling products on the internet is called _____
 (i) EDI (ii) E-Commerce (iii) E-Business (iv) E-market
- (q) The full form of SSL in E-Commerce is _____
 (i) Secure Socket Layer (ii) Secure Socket Loop
 (iii) Secure Socket Locket (iv) Secure Socket Liaison
- (r) In _____ Revenue model, revenue is generated from sales of goods, information or services.
 (i) Affiliate (ii) Sales (iii) Transaction (iv) Advertising
- (s) In online stored value systems, cards that have embedded chips that store personal information is called _____
 (i) Debit Card (ii) Smart Card (iii) Credit Card (iv) Ideal Card
- (t) It is a convention that all sites that use SSL connection while making a secure connection, use _____ instead of HTTP.
 (i) SMTP (ii) HTTPS (iii) FTP (iv) TCP/IP
- (u) Commercial transactions done with the help of cell phones is called _____
 (i) E-Commerce (ii) M-Commerce (iii) E-Business (iv) Sales
- (v) Generally common man is familiar with _____ form of E-Commerce.
 (i) B2B (ii) P2P (iii) B2C (iv) C2C
- (w) A Computer to Computer exchange of business transaction is called _____
 (i) E-Business (ii) Super Market (iii) EDI (iv) E-Market

(2) (A) Attempt any one sub-question from a and b in E-Commerce: (8)

- (a) Explain any four features of E-Commerce.
 (b) Explain B2B and C2C models in E-Commerce.

(B) Attempt any one sub-question from c and d in E-Commerce: (7)

- (c) Discuss the various payment systems used in E-Commerce.
 (d) Explain the following in E-Commerce
 (i) Encryption (ii) Decryption (iii) Digital Signature

(3) (A) Attempt any one sub-questions from a and b in MS-EXCEL: (8)

- (a) Consider the following worksheet:

	A	B	C	D	E	F
1	Name	Gender	Dept	Salary	Bonus	
2	JATIN	M	HR	19000		
3	MUKESH	M	PURCHASE	14500		
4	DEEPIKA	F	SALES	28000		
5	ATUL	M	COMPUTER	34000		
6	JYOTI	F	HR	23000		
7	AMAR	M	PURCHASE	30000		
8	GANESH	M	SALES	35000		
9	KOMAL	F	HR	20000		
10	SHEETAL	F	PURCHASE	15000		

Write steps to perform the following:

- (i) To compute Bonus @ 40% of the Salary upto ₹ 20,000 otherwise @ 50% of the salary in Column E.
 (ii) To find the Allowance @ 15% of the Salary for Salary above ₹ 25,000 otherwise @ 10% of the salary in Column F.

- (iii) To find the average of Salary of only the PURCHASE department in cell C12.
 (b) Employee no., Name and Salary are entered in columns A, B and C respectively as shown in the following worksheet. Write steps to compute Grade and Bonus in Column D and E respectively using VLOOKUP function. Policy table to be referred for finding Grade and Bonus is given in the range F2:H5 (8)

	A	B	C	D	E	F	G	H	I
1	Emp.No.	Name	Salary	Grade	Bonus	Salary	Grade	Bonus	
2	20110	AMAR	10000			0	D	3000	
3	20111	ATUL	34000			10000	C	5000	
4	20112	BHUSHAN	23000			15000	B	8000	
5	20113	DEEPIKA	20000			25000	A	12000	
6	20114	DILIP	9000						
7	20115	GANESH	9000						
8	20116	JATIN	30000						
9	20117	JEEVAN	15000						
10	20118	JOSEPH	14500						

3	Dilshan	Sri Lanka	150
4	Kohli	India	110
5	Clarke	Australia	150
6	Afridi	Pakistan	100
7	Amla	South Africa	90

Write steps to

- (i) To display only the rows where number of matches played is less than 105.
- (ii) To display only the rows where the Country is "India".
- (iii) To display only the rows where the players name starts with "A".

(d) Explain the following functions in EXCEL.

(1) NOW() (2) COUNTBLANK() (3) SMALL() (4) WEEKDAY() (5) CORREL() (6) TIME() (7) YEAR()

- (5) (A) Attempt any one sub-question from a and b in VISUAL BASIC: (8)
- (a) Write a project in VB to design a suitable form which allows the user to enter amount in Rupees and rate of conversion to Dollars and then calculate and display equivalent amount in Dollars.
 - (b) Write a project in VB to design a suitable form which allows the user to enter Basic Salary and calculate and display the BONUS as 80% of Basic Salary for Basic Salary up to ₹ 10,000 and 70% of Basic Salary otherwise.
- (B) Attempt any one sub-question from c and d in VISUAL BASIC: (7)
- (c) Write a project in VB to design a suitable form which allows the user to enter two numbers and calculate and display the sum of these two numbers.
 - (d) Write a project in VB to compute and display the sum of the series
 $1 + 3 + 5 + 7 + \dots + 21$