

SAKET COLLEGE OF ARTS, SCIENCE NAD COMMERCE, KALYAN (EAST)  
T.Y.B.COM SEMESTER VI PRELIMINARY EXAM MARCH 2018  
SUBJECT : COMPUTER SYSTEM AND APPLICATIONS

**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. PROPER() is used to convert all the letters in a word to upper case.
- b. solver allows you to solve for more than one variable.
- c. =FIXED(1234.567, 1) gives 1,234.5.

**B. Attempt any two sub questions from d, e, and e in Visual Basic (Multiple Choice) [2]**

d. In a visual Basic 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 a check box button is .

- i. cbt            ii.cpt            iii. cbu            iv. chk

f. Visual basic code is written in\_\_\_\_\_.

- i. Sub procedures    ii. Functions    iii. Form            iv. Routines

**C. Attempt any six sub questions from g, h,i, j, k, l, m, n, o in E-commerce(true/false) [6]**

- g. Payment is done only by Smart Card in E-Commerce.
- h. E-commerce helps us to buy products from global sellers.
- i. payment is done only by debit card in E-commerce.
- j. The scope of E-commerce is local.
- k. B2B refers to a business selling goods to other individuals.
- l. M-commerce means buying and selling of goods and services using laptop.
- m. Ubiquity in E-commerce refers to information richness.
- n. Security is the major drawback of E-commerce.
- o. Authentication ensures that the message is not read by others.

**D. Attempt any five sub questions from p, q, r, s, t, u, v, w in E-commerce (Multiple Choice) [5]**

p. Conversion of coded data into readable data is called\_\_\_\_\_ .

- i. Firewall            ii. Decryption            iii. Encryption            iv. Password.

q. EDI stands for\_\_\_\_\_ .

- i. Electronic Data Information    ii. Electronic Data Interchange
- iii. Electronic Data Interface    iv. Electronic Data Interference

r. Commercial transactions done with the help of cell phones is called \_\_\_\_\_.

- i. E-commerce    ii. M-commerce            iii. E-Business            iv. Sales

s. Buying and selling products on the internet is called \_\_\_\_\_.

- i. EDI            ii. E-commerce            iii. E-Business            iv. E-Market

t. A computer to computer exchange of business transaction is called \_\_\_\_\_ .

- i. EDI            ii. Super Market            iii. E-Business            iv. E-Market

u. In \_\_\_\_\_ revenue model, revenue is generated from sales of goods information or services.

- i. Affiliate                      ii. Sales                      iii. Transaction                      iv. Advertising

v. It is a convention that all sites that use SSL connection while making secure connection .use \_\_\_\_\_ instead of HTTP.

- i. SMTP                      ii. HTTPS                      iii. FTP                      iv. TCP/IP

w. Sender and receiver use the same key in \_\_\_\_\_ .

- i. Symmetric key encryption                      ii. ASymmetric key encryption                      iii. DESiv.PKI

**2. A. Attempt any one sub-question from a and b in (E-commerce)**

a. Explain B2B and C2C models in E-commerce. [8]

b. Discuss payment systems in E-commerce. [8]

**B. Attempt any one sub-question from c and d in (E-commerce)**

c. Explain any four features of E-commerce. [7]

d. Explain the following in E-commerce. [7]

- i) Digital signature                      ii) SSL                      iii) Public key encryption

**3. A. Attempt any one sub-question from a and b in MS-Excel.**

a. Employee no, name and salary are entered in columns A,B and C respectively as shown in 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 in given range F2:H5. [8]

	A	B	C	D	E	F	G	H	I
1	Emp No	Name	Salary	Grade	Bonus	Salary	Grade	Bonus	
2	201	Amar	10000			0	D	3000	
3	202	Atul	12000			10000	C	5000	
4	203	Akash	34000			15000	B	8000	
5	204	Anu	23000			25000	A	12000	
6	205	Adesh	25000						
7	206	Ashutosh	8000						
8	207	Andy	30000						
9	208	Apeksha	22000						
10	209	Arun	14000						

b. Consider the following worksheet. [8]

	A	B	C	D	E	F
1	Name	Gender	Dept	Salary	Bonus	
2	Jatin	M	HR	19000		
3	Jayesh	M	PURCHASE	25000		

4	Pushpa	F	SALES	34000		
5	Sunil	F	COMPUTER	28000		
6	Amol	M	HR	35000		
7	Ganesh	M	SALES	38000		
8	Dilip	M	PURCHASE	30000		
9	Disha	F	SALES	20000		
10	Sheetal	F	COMPUTER	15000		

Write the steps for following.

- i) To compute bonus @ 40% of the salary up to 20000 otherwise @ 50 % of the salary in column E.
- ii) To find the allowance @ 15% of the salary for salary above 25000 otherwise @ 10% of the salary in column F.
- iii) To find the average of salary of only PURCHASE department in cell C12.

**B. Attempt any one sub-question from c and d in MS-Excel.**

c. Consider the following worksheet.

[7]

	A	B	C	D	E
1	Name	Days Worked	Type	Wages	
2	Mona	20	Skilled		
3	Hiten	15	Unskilled		
4	Peter	23	Semi-skilled		
5	Fatima	19	Skilled		
6	Kiran	21	Unskilled		

Write the steps to compute the wages in column D given that the rate per day is 200, 400 and 600 for unskilled, semi-skilled and skilled workers respectively.

d. Explain the following built in functions in MS-Excel.

[7]

1. PROPER
2. SUMIF
3. TODAY
4. FIXED
5. NOW
6. VLOOKUP
7. LEN

**4. A. Attempt any one sub-question from a and b in MS-Excel.**

a. The following in the Excel worksheet showing expenses under different heads for the year 2014. [8]

	A	B	C	D
1	Heads	Expenditure in 2014	Increase in Expenses	Expected Expenditure
2	Factory Expenses	25,00,000	75,000	25,75,000
3	Administrative Expenses	8,78,000	50,000	9,28,000
4	Selling and distribution expenses	3,44,500	80,000	4,24,500
5	Total Expenses	37,22,500		39,27,500
		Difference		2,05,000

Manager assumes that the most likely scenario is 75000, 50000, and 80000 increase in respective headers and computes expected expenditure for the year 2015 in column D. Difference in total expenses is computed in cell D7. Using scenario manager explain steps to build a new scenario (WORST) with 2,00,000 , 1,50,000, and 2,00,000 increase in factory expenses, administrative expenses, and Selling and distribution expenses respectively and show the summary of these two scenarios.

b. The following data entered in a worksheet regarding expenses during January, February and March. [8]

	A	B	C	D
1	Item	Jan	Feb	March
2	Food	11,200	11,000	11,800
3	Clothing	6,500	8,000	7,500
4	House rent	10,000	10,000	10,500
5	Miscellaneous	5,000	7,000	9,000

Write steps to

- Find total expenses in each month in cells B6, C6 and D6.
- Create a pie chart for the month of February.
- Create a 3 D bar chart for expenses of January, February and March.
- Create a line diagram for the months of January and March.

**B. Attempt any one sub-question from c and d in MS-Excel.**

c. Explain the following functions in MS-Excel. [7]

- DATE()
- COUNTA()
- SMALL()
- TIME()
- YEAR()
- COUNTBLANK()
- CORREL()

d. The following data entered in a worksheet. [7]

	A	B	C	D	E	F	G
1	RNO	NAME	ACC	ECO	COMP	AVERAGE	GRADE
2	101	NEHA	55	40	60		
3	103	AKASH	80	65	63		
4	104	SARA	35	50	45		
5	102	ANJALI	42	54	66		
6							

Write steps to compute AVERAGE MARKS and grade in column F and G as per the following criteria.

Average	Grade
>=60	FIRST CLASS
<60 but >=45	SECOND CLASS
<45 but >=35	PASS CLASS
<35	FAIL

**5. A. Attempt any one sub-question from a and b in Visual Basic.**

[8]

- Write a project in VB to design a suitable form which allows the user to , enter the base and height of a triangle and calculate and displays the area of the triangle(Area=1/2 \*Base\*Height).
- Write a project in VB to design a suitable form to enter salary and calculate and display DA which is 90% of salary.

**B. Attempt any one sub-question from c and d in Visual Basic.**

[7]

- Write a project in VB to design a suitable form to enter age of a student and display the message “Eligible To Vote” if age is 18 or more else display the message “Sorry! Not eligible To Vote”.
- Write a project in VB to design a suitable form to compute and display the sum of the series .  
2+4+6+8+.....+20