

(2½ Hours)

[Total Marks: 75]

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

- Q1. (A) Attempt any **two** sub-questions from a), b) and c) in MS-EXCEL (2)
- (True or False)
- The result of a logical formula is a numeric value.
 - The Trim() function removes all blank spaces from the string argument.
 - Solver problems are limited to a single changing cell.
- (B) Attempt any **two** sub-questions from d), e) and f) in VISUAL BASIC (2)
- (Multiple Choice)
- Double clicking on the command button icon in the tool box will _____.
A) Do nothing B) Highlight it C) Place it on the form D) Delete it
 - _____ is the final keyword used to indicate the end of a sub procedure.
A) Exit Sub B) End Sub C) Exit D) Quit
 - The full form of VBP is _____.
A) Visual Binary Project B) Visual Basic Project
C) Very Basic Project; D) Visual Basic Parameter
- (C) Attempt any **six** sub-questions from g), h), i), j), k), l), m), n), o) in E-Commerce. (True Or False). (6)
- Transaction broker earns money in the form of commission each time a transaction occurs.
 - Richness refers to the total amount of information that is available to all the stakeholder.
 - Content provider is one of the major B2B model.
 - In SET the customer's credit card number is never seen by the merchant.
 - Integrity refers to the ability to determine the origin of the message received over the Internet.
 - The cost of the products sold through E-Commerce is very high.
 - In SSL, encryption is based on session key which is unique and is different for each session.
 - M-Commerce means buying and selling of goods and services using a laptop.
 - Digital signature is used to authenticate the identity of a person involved in Ecommerce.
- (D) Attempt any **five** sub-questions from p), q), r), s), t), u), v), w) in E-Commerce. (Multiple Choice) (5)
- Yahoo is a _____.
A) Portal B) E-Tailer C) Transaction Broker D) None of these
 - In _____ E-Commerce one business makes deals with another Business.
A) C2C B) B2C C) B2B D) C2B

- r) The model in E-Commerce where companies earn revenue by referring users to other websites providing products/services is called _____ model.
 A) Advertising B) Affiliation C) Sales D) Transaction
- s) The full form of SET in E-Commerce is _____.
 A) Secure Electronic Tax B) Secure Electronic Transaction
 C) Secure Electronic Territory D) Secure Electronic Tunnel
- t) Conversion of coded data into readable data is called _____.
 A) De-conversion B) Decryption C) Encryption D) Password
- u) The sender and receiver will have the same key in _____ Key encryption.
 A) Symmetric B) Asymmetric C) Public D) Private
- v) _____ are sites that create a digital online environment where people with similar interest can do transaction.
 A) Community Provider B) Market Creator
 C) Portal D) Service Provider
- w) A Computer to Computer exchange of business transaction is called _____.
 A) E-Business B) Super Market C) EDI D) E-Market

Q2. (A) Answer any **one** sub-question from a) and b) in E-Commerce. (8)

- a) Explain the features of E-Commerce.
 b) Explain the following B2C models in E-commerce.
 (i) E-Tailer (ii) Content Provider (iii) Transaction Broker

(B) Answer any **one** sub-question from c) and d) in E-Commerce. (7)

- c) What is M-commerce? What are its applications?
 d) Explain SET protocol.

Q3. (A) Answer any **one** sub-question from a) and b) in MS-EXCEL. (8)

- a) Consider the following worksheet

	A	B	C	D	E
1	NAME	TOTAL SALES	COMMISSION	BONUS	TOTAL EARNING
2	KARAN	85000			
3	ANITHA	63000			
4	SHARAN	248000			
5	MEGHA	125000			
6	PRATHAM	260000			
7	SUHAS	75000			

Write steps to

- i) Calculate Commission in column C using the following Commission Policy.

SALES AMOUNT	RATE OF COMMISSION
FIRST 50,000	8%
NEXT 75,000	10%
EXCESS	12%

- ii) Calculate Bonus as 4% of the total sales whenever the sales is above Rs.2, 00, 000 otherwise no bonus is given.

- iii) Calculate Total Earning where Total Earning = Commission+ Bonus

- b) Consider the following worksheet. Write steps to compute Grade and the Division for next year in Column C and D respectively using HLOOKUP function. Policy table to be referred for finding Grade and Division for next year is given in the range G1:J3.

	A	B	C	D	E	F	G	H	I	J
1	RNO	MARKS	GRADE	DIV		MARKS	0	40	70	80
2	23	86				GRADE	F	D	A	O
3	32	74				DIV	FAIL	DIV C	DIV B	DIV A
4	43	34								
5	56	44								
6	67	79								
7	70	98								
8	87	77								

- (B) Answer any **one** sub-question from c) and d) in MS-EXCEL

(7)

- c) Consider the following worksheet

	A	B	C	D	E	F
1	NAME	BASIC SALARY	CITY	DA	HRA	GROSS
2	ANITA	18650	MUMBAI			
3	SACHIN	29300	PUNE			
4	SUNIL	61000	HYDERABAD			
5	NIRMAL	50500	MUMBAI			
6	ALPA	40000	PUNE			

Write steps to compute the following:-

- DA as 125% of basic salary whenever the basic salary is 30,000 or less otherwise as 135% of the basic salary.
- HRA is 25000 for "Mumbai" city and 18000 for other cities.
- Gross = Basic Salary + DA + HRA

- d) Consider the following worksheet showing the electricity consumption in a building

	A	B	C	D	E	F	G	H	I
1	FLAT NO.	UNITS	RATE	UNIT CONSUMPTION CHARGES	FIXED	BILL		UNITS	RATE
2	101	50			65			0	2.60
3	102	120			90			100	5.62
4	201	600			300			300	7.20
5	201	340			150			500	8.95
6	301	245			90				
7	302	700			300				
8	401	45			65				

Write steps to compute the following

- Find Rate using VLOOKUP function. Policy table to be referred is in the range H2:I5
- Calculate Unit Consumption Charges in column D where Unit Consumption
Charges = Units * rate
- Bill = Unit Consumption Charges + fixed charges

Q4. (A) Answer any **one** sub-question from a) and b) in MS-EXCEL (8)

- a) The following table shows the shipment forecast of tablets, laptops and Desktop PCs worldwide for the year 2015, 2016, 2017 and 2018.

	A	B	C	D	E
	PRODUCT	2015	2016	2017	2018
1	DESKTOP	113.6	103.3	97.8	94.4
2	LAPTOPS	163.1	156.8	161.6	162.3
3	TABLETS	208	174.9	163.7	150.3
4	TOTAL				
5					

Write the steps to

- Find the total product shipped in the year 2015, 2016, 2017, 2018 in the cells B4, C4, D4 and E4.
 - Create 3-D Bar chart for the above data.
 - Create a Line diagram for the year 2015 and 2018
 - Create a Pie chart for the year 2017.
- b) The following worksheet contains the Price Per Unit and quantity sold of some products in a year. Write steps to calculate Total Sales in column D and Grand Total Sales in D5.

For the company to break even, it has to achieve a Grand Total Sales of Rs. 18, 00, 000 in a year. Using solver, find out the number of units of each of these three products that should be sold in order to meet the desired target sale.

Where Total Sales=Price*Quantity and Grand Total Sales=Sum of D2 to D4

	A	B	C	D
1	PRODUCT NAME	PRICE	QUANTITY	TOTAL SALES
2	PEN DRIVE	450	100	
3	CHARGER	500	125	
4	MOUSE	650	250	
5	GRAND TOTAL			

Q4. (B) Answer any **one** sub-question from c) and d) in MS-EXCEL (7)

- c) The following data has been entered in a Excel worksheet

	A	B	C	D	E
1	NAME	GENDER	AGE	CITY	SALES
2	MUKUND	M	25	SURAT	498000
3	RAVEENA	F	23	NASIK	575000
4	SNEHA	F	26	CHENNAI	378000
5	PRAVEEN	M	29	NASIK	600000
6	VILAS	M	32	KOLKOTA	645000
7	ANIKET	M	27	NAGPUR	792565

Write steps to

- Display only those rows where the sales is less than 40000.
- Display only those rows where the gender is "M".
- Display only those rows where the city name starts with "N".

d) Explain the following functions in MS-EXCEL.

- 1) DAY() 2) NOW() 3) YEAR() 4) DAYS360()
5) CORREL() 6) COUNTA() 7) LARGE()

Q5. (A) Answer 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 Dollars and Rate of Conversion to Rupees and then calculate and display equivalent amount in Rupees.
- b) Write a project in VB to design a suitable form which allows the user to enter Name and Basic Salary and calculate DA as 95% of Basic Salary whenever basic salary is less than 45000 otherwise 110% of Basic Salary using a 'Calculate' button and display the result.

Q5. (B) Answer 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 Product Name, Quantity Sold and Price per Unit of a product and then calculates and displays the Total Cost (Total Cost = Quantity Sold * Price per Unit)
- d) Write a project in VB to design a suitable form which allows the user to enter an integer and calculate and display the factorial of that integer when the "Calculate" button is clicked.
(Factorial of N = $1 \times 2 \times 3 \times \dots \times N$)
