

Time: 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

- Q.1 A Attempt any two sub-questions from a), b) and c) in MS-EXCEL (True or False) 02**
- (a) A template has a file name extension .XLTX.
- (b) The LEN () function does not include spaces while calculating the length of a string.
- (c) WEEKDAY () returns the day of the week such as “Sun”, “Mon”, Etc.
- B Attempt any two sub-questions from d), e) and f) in VISUAL BASIC (Multiple Choice) 02**
- (d) What is the meaning of VBP?
A) Visual Binary Project B) Very Basic Project
C) Visual Basic Project D) Delete it
- (e) The data type that holds the numeric variables with values ranging from 0 to 225 is _____.
A) Boolean B) Byte C) Single D) Integer
- (f) The data type of a variable decides:
A) The Range of values that can be stored
B) The operation that can be carried out on that variable.
C) The amount of memory that will be allocated to that variable.
D) All of the above.
- C Attempt any six sub-questions from g), h), i), j), k), l), m), n), o) in E-Commerce. (True Or False) 06**
- (g) E-commerce means buying and selling of products or services by business or consumer over the internet.
- (h) In C2C E-Commerce consumer transact with other consumer through a physical market.
- (i) The volume of B2B transaction being done is more than B2C transaction.
- (j) In SET the customer’s credit card number is never seen by the merchant.
- (k) Integrity refers to the ability to determine the origin of the message received over the Internet.
- (l) The cost of the products sold through E-Commerce is very high.
- (m) In the subscription 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) EDI stand for electronic data interchange.
- D Attempt any five sub-questions from p), q), r), s), t), u), v), w) in E-Commerce. (Multiple Choice) 05**
- (p) A computer-to-computer exchanges of business transaction is called.
A) EDI B) E-Commerce C) E-Business D) E-Market
- (q) The full form of P2P in E-Commerce is:
A) Person to person B) Peer to Person
C) Peer to Peer D) Person to Peer

- (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 full form of SLL in E-Commerce is:
 A) Secure Socket Layer B) Secure Socker Loop
 Secure Electronic Territory D) Secure Electronic tunnel
- (v) SET is an open standard in E-commerce offered by _____.
 A) Certification Authorities B) Microsoft
 C) Master and Visa C D) World bank
- (w) The Emerging market economy where consumer, produce and merchants interact electronically is called _____.
 A) E-Commerce B) Super Market C) EDI D) E-Market

Q.2 A Answer any one sub-question from a) and b) in E-Commerce.

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- (a) Explain any four limitations of E-Commerce.
 (b) Explain any four Revenue Models in E-Commerce.

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

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- (c) Explain how online credit card transactions work.
 (d) Explain the following in E-Commerce
 i) Encryption ii) Decryption iii) Digital Signature

Q.3 A Answer any one sub-question from a) and b) in MS-EXCEL

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(a) The following data is entered in a worksheet.

	A	B	C	D
1	Emp Code	Grade	Basic Salary	Bonus
2	102	I	25000	
3	2015	II	30000	
4	1725	III	15000	
5	3121	I	20000	
6	908	III	18000	

Write the steps to compute the Bonus, which is calculated as 10% of the Basic Salary for Grade I, 12% for Grade II, and 8% for Grade III.

(b) The following data is entered in a worksheet.

	A	B	C	D	E
1	Name	Sales	Tax	Refund	Net Income
2	Priya	45000			
3	Vikram	100000			
4	Arun	30000			
5	Neha	70000			

Write the steps to compute the following:

- Tax:** 10% on sales above 30000, 15% on sales above 70000.
- Refund:** 5% of sales if the sales amount is less than 50000, otherwise refund is zero.
- Net Income:** The sum of sales minus Tax and Refund.

Q.3 B (c) Answer any *one* sub-question from c) and d) in MS-EXCEL

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The following data is entered in a worksheet.

	A	B	C	D	E
1	Cust_ID	Purchase Date	Item	Purchase Amt	Discount Amt
2	C001	2025-03-01	Laptop	60000	
3	C002	2025-03-02	Phone	25000	
4	C001	2025-03-03	Headphones	5000	
5	C004	2025-03-04	Tablet	20000	
6	C001	2025-03-05	Laptop	60000	
7	Total discount amount for Laptop purchases				
8	Total amount spent by Customer C001				

Write the steps for the following:

1. Discount amount in column E (10% discount for purchases above 50000).
2. Total discount amount for Laptop purchases in cell B7.
3. Total amount spent by Customer C001 in cell B8 (including discount).

(d) The following data has been entered in a spreadsheet:

	A	B	C	D	E	F
1	RNo	Name	Practical (Out of 25)	Theory (Out of 75)	Total Marks (Out of 100)	Remark
2	31	ANITA	15	25		
3	43	BINA	21	30		
4	25	AVINAS H	12	46		
5	24	AGNEL A	8	38		
6	35	ASHISH	24	68		

Write the steps to calculate:

1. Calculate Total Marks in column E
2. Calculate Remark in column F as follows

If the student scores more than or equal to 10 in Practical and more than or equal to 30 in Theory, the Remark is "PASS". Otherwise, it is "FAIL".

Q.4 A Answer any *one* sub-question from a) and b) in MS-EXCEL

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(a) The following data is entered in a worksheet regarding number of matches won

	A	B	C	D	E
1	Country	2013	2014	2015	
2	India	20	19	18	
3	Pakistan	15	16	20	
4	Australia	19	20	19	
5	Sri Lanka	16	15	18	

Write the steps to

- A) To find the total matches won by each country in cells E2 to E5.
- B) Create Column chart for matches won.
- C) To create Pie chart for matches won by India.
- D) To create a line chart for matches won in 2013 and 2014

- (b) A Company makes three products Bats, Racquets and Footballs whose sale price is 300, 200 and 150 respectively. For the company to break even, it has to achieve a total sale of 500000 in a year. Write the steps to find Using Solver the number of units of each of these three products that should be sold in order to meet the desired target sale.

Q.4 B

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

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

	RNO	NAME	AGE	TOTAL
1	1	ABHAY	15	450
2	5	RAKSHA	18	550
3	11	VARSHA	19	260
4	23	DEELIP	20	680
5	2	MEENAKSHI	24	150

Write steps to do the following:

- A) Display the data for Age less than 20.
 B) Display the data where name start with "A"
 C) Display the data where RNO is "23"
 D) Display the data where the total is between 300 and 500.
- (d) Explain the following built-in functions in MS-EXCEL
 1. NOW() 2. DAY() 3. SMALL() 4. COUNTBLANK() 5. DAY() 6. MONTH() 7. WEEKDAY()

Q.5 A

Answer any *one* sub-question from a) and b) in VISUAL BASIC

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- (a) Write a project in VB to design a form that allows the user to enter Salary and calculate the following:
 DA (70% of Salary)
 HRA (30% of Salary)
 Gross Salary (Salary + DA + HRA)
- (b) Write a project in VB to design a form where the user enters three numbers and displays the smallest number among them.

B

Answer any *one* sub-question from c) and d) in VISUAL BASIC

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- (c) Write a project in VB to design a form that allows the user to enter two numbers and display their product and difference along with the sum.
- (d) Write a project in VB to design a form that allows the user to enter an integer n and calculate and display the factorial of n, where n is any number entered by the user.
