

Note: 1) All questions are compulsory

- Q1. (A) Attempt any *two* sub-questions from a), b) and c) in MS-EXCEL (2)
- (True or False)
- 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 f) in VISUAL BASIC (2)
- (Multiple Choice)
- d) Visual Basic code is written in \_\_\_\_\_.  
A) Sub procedures    B) Functions    C) Form    D) Routines
  - e) The standard prefix for a check box button is \_\_\_\_\_.  
A) cbt    B) cpt    C) cbu    d) chk
  - f) \_\_\_\_\_ is a valid object name for a text box.  
A) txtClass    B) 5Class    C) txt+Class    D) @txt
- (C) Attempt any *six* sub-questions from g), h), i), j), k), l), m), n), o) in E-Commerce (True Or False). (6)
- g) E-commerce provides the capability of buying and selling of products, services and information on the internet.
  - h) Web sites that supply different types of online information are content provider.
  - i) E-tailer is an online store.
  - j) Authentication ensures that the message was not read by others.
  - k) Hacking of credit card numbers and passwords is possible in E-commerce.
  - l) Transaction broker earns money in the form of commission each time a transaction occurs.
  - m) There is no scope for negotiations in B2C E-Commerce.
  - n) Digital Cash is the electronic parallel of notes and coins.
  - o) Payment is done only by Smart 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) EDI stands for \_\_\_\_\_.  
A) Electronic data Information    B) Electronic Data Interchange  
C) Electronic data Interface    D) Electronic data Interference
  - q) The full form of C2C in E-Commerce is \_\_\_\_\_.  
A) Consumer to Commerce    B) Commerce to Consumer  
C) Consumer to Consumer    D) Commerce to Commerce
  - r) Conversion of coded data into readable data is called \_\_\_\_\_.  
A) Firewall    B) Decryption    C) Encryption    D) Password

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- s) In E-commerce, to authenticate the sender of the message we use\_\_\_\_.  
 A)Digital Signature B)Privacy Protocol  
 C)Digital Sending D)Digital Protocol
- t) It is a convention that all sites that use SSL connection while making a secure connection use \_\_\_\_\_instead of HTTP.  
 A)SMTP B)HTTPS C)FTP D)TCP/IP
- u) The most commonly used form of payment in E-Commerce is\_\_\_\_\_.  
 A)Credit Card B)PayPal C)Petro Card D)Digital Card
- v) In online stored value systems, cards that have embedded chips that store personal information are called \_\_\_\_\_.  
 A)Debit Cards B)Smart Cards C)Credit Cards D)Ideal cards
- w) \_\_\_\_\_is part of E-Commerce.  
 A)B2B B)C2C C)B2C D)All of these

- Q2. (A) Answer 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) Answer 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

- 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	Emp. No.	Dept	Salary	Allowance	Bonus
2	S234	Export	25000		
3	H533	Sales	18000		
4	W234	Accounts	23000		
5	K765	HR	35000		
6	Y654	Admin	29000		

Write steps to perform the following:

- i) To compute Allowance @ 1% of the Salary for salary up to ₹25,000 otherwise @2% of the salary in Column D.  
 ii) To find the Bonus @20% of the Salary for Salary above ₹30,000 otherwise @14% of the Salary in Column E.  
 iii) To find the total bonus of all employees whose salary is below ₹25,000 in cell E8.
- b) Roll Number and marks are entered in columns A and B as shown in the following worksheet. Write steps to compute Grade and the Award amount in Column C and D respectively using HLOOKUP function. Policy table to be referred for finding Grade and Award amount is given in the range G1:J3.

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	A	B	C	D	E	F	G	H	I	J
1	Roll. No.	Marks	Grade	Award		Marks	0	50	70	90
2	231	87				Grade	D	C	B	A
3	112	56				Award	0	150	500	1000
4	234	94								
5	123	55								
6	567	77								
7	345	45								
8	656	69								

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

- c) The following table shows Roll no., Name and marks scored in three subjects by students in an exam.

	A	B	C	D	E	F	G
1	RNO	NAME	ACC	ECO	COMP	AVERAGE	GRADE
2	101	PRIYANK	55	43	61		
3	103	NIKITA	80	65	63		
4	104	SWATI	40	50	45		
5	102	KIRAN	42	54	69		

Write steps to

- 1) Find the Average marks in Column F.
- 2) Assign the grade in column G using the following policy:

Average Marks	Grade
70 and above	O
60 to 69.99	A
Below 60	B

- d) Consider the following worksheet.

	A	B	C	D
1	Emp. No.	Hours worked	Grade	Wages
2	Q234	30	I	
3	R567	40	III	
4	E987	28	I	
5	T379	19	II	
6	K237	45	III	

Write the steps to compute the Wages in column D given that the rate per hour is ₹500 ₹400 and ₹200 for Grade I, II and III workers respectively.

- Q4. (A) Answer any *one* sub-question from a) and b) in MS-EXCEL (8)
- a) The following data is entered in a worksheet regarding sales (in crores of ₹) during the years 2005, 2010 and 2015.

	A	B	C	D
1	PRODUCT No.	2005	2010	2015
2	111	213	421	340
3	222	158	220	130
4	333	210	270	195
5	444	178	215	170

Write the steps to

- Find the total sales in each year in the cells B6, C6 and D6.
  - Create a Column chart for the total Sales in 2005, 2010 and 2015.
  - Create a Pie chart for the sales in 2010.
  - Create a Line diagram for the sales in 2005 and 2015.
- b) The following Excel worksheet contains the sale price per unit, units sold and sales value of two products in a year.

	A	B	C	D
1	Product	Price per unit	Units Sold	Sales value
2	A	5000	100	500000
3	B	3000	150	450000
4				950000

For the company to break even, it has to achieve a total sale of ₹1,00,00,000 in a year. Using Solver write the steps to find out the number of units of each of these two products that should be sold in order to meet the desired target sale.

- (B) Answer any *one* sub-question from c) and d) in MS-EXCEL (7)
- c) The following data has been entered in a worksheet:

	A	B	C	D
1	Emp. No.	Name	Salary	Contribution
2	1123	Manoj Shah	35000	2500
3	1132	Pervin Kolad	42000	3000
4	1143	Javed Akhtar	20500	1500
5	1145	Tony D'Souza	65000	4000
6	1167	Vinod Joshi	15000	1000

Write steps to

- To display only the rows where the salary is more than 30,000.
  - To display only the rows where the Contribution is up to 3,000.
  - To display only the rows where the name contains "i".
- d) Explain the following functions in EXCEL.
- DATE()
  - COUNTA()
  - SMALL()
  - DAYS360()
  - CORREL()
  - MONTH()
  - YEAR()

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- 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 the Principal amount and then calculates and displays the Simple Interest using 8.5% rate of interest for 4 years. ( $SI = P \times R \times N / 100$ )
  - b) Write a project in VB to design a suitable form which allows the user to enter Basic Salary and calculate and display the HRA as 13% of Basic Salary for Basic Salary up to ₹25,000 and 20% of Basic Salary otherwise.
- 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 two numbers and displays the smaller of these two numbers.
  - d) Write a project in VB to compute and display the sum of the series

$$3 + 7 + 11 + 15 + \dots + 203$$

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