

(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)
- When data is filtered it is also sorted in the ascending order.
  - Solver allows you to solve for more than one variable.
  - A function can contain another function in its argument.
- (B) Attempt any **two** sub-questions from d), e) and f) in VISUAL BASIC (2)  
(Multiple Choice)
- The full form of VBP is \_\_\_\_\_.  
A) Visual Binary Project B) Visual Basic Project  
C) Very Basic Project D) Visual Bio Parameter
  - The standard prefix for command Button is \_\_\_\_\_.  
A) cmd B)com C) comd D)cdm
  - Visual Basic controls are \_\_\_\_\_.  
A)codes B) objects C)rules D) part of the menus
- (C) Attempt any **six** sub-questions from g), h), i), j), k), l), m), n), o) in E-Commerce. (True Or False). (6)
- E- Market, EDI and Internet are parts of E-Commerce.
  - Security is the major drawback of E- commerce.
  - Portals are one of the B2B model.
  - Authentication ensures that the buyer and seller do not deny that they have initiated the transaction.
  - Private key encryption has two keys.
  - In SET, the customer's credit card number is seen by the merchant.
  - Cipher texts are readable texts.
  - One of the payment systems in E-Commerce is online stored value systems.
  - A digital signature is a digital code that is attached to a message sent electronically.
- (D) Attempt any **five** sub-questions from p), q), r), s), t), u), v), w) in E-Commerce. (5)  
(Multiple Choice)
- In \_\_\_\_\_ revenue model, revenue is generated from sales of goods, information or services.  
A)Affiliate B)Sales C)Transaction D)Advertising
  - Online retail stores are often called as \_\_\_\_\_.  
A) Portal B)Market Creator C) E-Tailer D)Community Provider
  - The full form of SSL in E-Commerce is Secure \_\_\_\_\_ Layer.  
A) Socket B) soft C) secret D) sanctioned
  - olx.com is \_\_\_\_\_ model.  
A)B2C B)B2B C)C2C D) C2B

- t) The full form of P2P in E-Commerce is \_\_\_\_\_.
  - A) Peer to Peer
  - B) Person to Person
  - C) Peer to Person
  - D) Person to Peer
- u) Decryption is done by \_\_\_\_\_ with the help of private key.
  - A) Sender
  - B) Receiver
  - C) Both
  - D) Agent
- v) 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
- w) The technology used to bring Internet content and services to mobile phones and other wireless devices is called \_\_\_\_\_.
  - A) WAP
  - B) SAP
  - C)WMP
  - D) WIP

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

- a) Explain i) advertising revenue model    ii) content provider
- b) Explain the Different payment Systems in E-commerce.

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

- c) Explain SET in detail.
- d) What is M-Commerce? What are its applications?

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

a) The following data has been entered in a worksheet.

	A	B	C	D	E	F	G
1	<b>NAME</b>	<b>ECO</b>	<b>MHRM</b>	<b>TAX</b>	<b>TOTAL</b>	<b>AVERAGE</b>	<b>GRADE</b>
2	SUNITA	66	77	70			
3	JAY	80	82	87			
4	SEEMA	45	54	55			
5	AARTI	40	45	48			
6	HIRAL	77	84	80			
7	PRAKASH	65	66	69			

Write steps to

- i) Find the Total marks in column E.
- ii) Find the Average marks in column F.
- iii) Assign Grade in Column G using the following policy:

Total Marks	Grade
240 or more	O
180 or more but below 240	A
Less than 180	B

b) Consider the following worksheet

	A	B	C	D
1	<b>NAME</b>	<b>TAXABLE INCOME</b>	<b>INCOME TAX</b>	<b>SURCHARGE</b>
2	RAHUL	800000		
3	ANJALI	1000000		
4	POOJA	1500000		
5	RAJ	650000		
6	KAJOL	400000		
7	ADITYA	2400000		
8	SEEMA	600000		

Write steps to calculate

i) Income Tax in column C where Income Tax is calculated as follows.

Taxable Income	Rate
First 5,00,000	Nil
Next 3,00,000	10%
Excess	20%

ii) Surcharge in column D, where surcharge is 5% of the income tax for those whose taxable income is above Rs.10, 00,000 otherwise there is no surcharge.

- (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	CITY	DEPT	SALARY	HRA	DA
2	NAKUL	AGRA	HR	42000		
3	FALAK	BHOPAL	IT	35000		
4	PARTH	MUMBAI	HR	56000		
5	IRA	AGRA	SALES	45000		
6	RISHI	MUMBAI	IT	72000		
7	KIARA	BHOPAL	SALES	50000		
8	SAMAR	MUMBAI	SALES	75000		
9	MEERA	AGRA	IT	26000		

Write steps to perform the following:

- i) To compute HRA as 25% of the Salary for salary up to 40,000 otherwise 40% of the salary in column E.
- ii) To find the DA as 120% of salary for salary above 60000 otherwise 85% of salary in column F.
- iii) To find the total of salary of only the MUMBAI City in cell B11.

- d) The following worksheet displays the distance in Kilometers.

	A	B	C	D	E	F	G
1	DISTANCE	TRAIN FARE	BUS FARE		DISTANCE	TRAIN FARE	BUS FARE
2	42				0	10	12
3	34				20	20	25
4	5				40	35	45
5	65				60	50	60
6	120				80	70	80
7	85				100	90	100
8	22						

Write steps to find the train and bus fare using VLOOKUP function in columns B and C. Policy table to be referred for finding the train and bus fare is given in the range E1:G7.

(Note if the Distance is say 32, which is above 20 and below 40 then the Train Fare will be 20 )

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

- a) The following data has been entered in a worksheet regarding expenses during September, October, November and December.

	A	B	C	D	E
1	<b>ITEM</b>	<b>SEPTEMBER</b>	<b>OCTOBER</b>	<b>NOVEMBER</b>	<b>DECEMBER</b>
2	PRODUCTION	250000	255000	300000	320000
3	TRANSPORT	75000	76000	77000	77000
4	HR	10000	10000	10000	12000
5	ADVERTISING	50000	55000	62000	67000
6	TOTAL				

Write steps to

- Find the total expenses in each month in the cells B6, C6, D6 and E6.
  - Create 3-D Bar chart for expenses of September, October, November and December.
  - Create a Pie chart for the expenses on Production.
  - Create a Line diagram for the expenses on Transport and Advertising.
- b) The following table shows Product, Quantity and Price of the Biscuits sold.

	A	B	C	D
1	<b>NAME OF BISCUITS</b>	<b>QUANTITY</b>	<b>PRICE</b>	<b>REVENUE</b>
2	OREO	150	50	
3	MONACO	220	25	
4	KRACKJACK	200	20	
5	MARIE	250	25	
6	BOURBON	350	40	
7	HIDE & SEEK	400	30	
8	TOTAL REVENUE			

Write steps to find Revenue of each type of Biscuit and Total revenue in column D.

Write steps in Excel using Solver to find what should be the price of each type of Biscuit in order to achieve the total Revenue 60000.

(REVENUE = QUANTITY\*PRICE)

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
1	<b>NAME</b>	<b>CITY</b>	<b>SALARY</b>	<b>BONUS</b>
2	ALIYA	CHENNAI	42000	4200
3	BINITA	HYDERABAD	35000	3500
4	KABIR	JAIPUR	30000	3000
5	NAKUL	MUMBAI	50000	5000
6	DAMINI	CHENNAI	45000	4500
7	ADITYA	HYDERABAD	65000	6500
8	ISHANI	MUMBAI	54000	5400

Write steps to

- i) Display only those rows where the City is "CHENNAI".
- ii) Display only those rows where Salary is above average Salary.
- iii) Display only those rows where the Bonus is more than 4,000 but less than 5,500.

- d) Explain the following functions in MS-EXCEL.
- |             |             |            |           |
|-------------|-------------|------------|-----------|
| 1) DAY()    | 2) NOW()    | 3) YEAR()  | 4) TIME() |
| 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 Name and Basic salary. Calculate DA as 60% of Basic Salary whenever basic salary is less than 40000 otherwise 80% of Basic Salary using a 'Calculate' button and display the result.
- b) 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.

**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 an integer and calculate and display the factorial of that integer when the "Calculate" button is clicked.  
(Factorial of N= 1\*2\*3-----\*N)
- d) Write a project in VB to design a suitable form to enter any two integers and display average of these two integers.

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