

(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 logical function AND returns the value TRUE only if all the conditions in it are TRUE.
  - A chart cannot be moved around on a worksheet.
  - Filter means getting only those records which are satisfying a given condition.
- (B) Attempt any **two** sub-questions from d), e) and f) in VISUAL BASIC (2)
- (Multiple Choice)
- Various controls such as Textbox, Command Button and Option Button can be selected from \_\_\_\_\_.  
 A) Form Designer B) Properties Window  
 C) Toolbox Window D) Project Explorer
  - Visual Basic projects are identified by a \_\_\_\_\_ suffix.  
 A) .VBP B) .MAK C) .FRM d) .BAS
  - is the final key word used to indicate the end of a sub procedure.  
 A) End Do B) End Sub C) End D) Exit Sub
- (C) Attempt any **six** sub-questions from g), h), i), j), k), l), m), n), o) in E-Commerce. (True Or False). (6)
- E-Commerce helps us to buy products from global sellers.
  - EDI is a part of E-Commerce.
  - In E-commerce Ubiquity refers to Universal Standards
  - Portals are focused around a particular market segment.
  - A major drawback of E-Commerce is Security.
  - Authentication ensures that the message is not read by others.
  - In SET customer credit card number is never seen by the merchant.
  - Encryption means converting readable text into cipher text.
  - Sender and receiver have the same key in Symmetric Key Encryption.
- (D) Attempt any **five** sub-questions from p), q), r), s), t), u), v), w) in E-Commerce. (Multiple Choice) (5)
- \_\_\_\_\_ segment of E-commerce focuses consumers dealing with each other.  
 A) B2B B) C2B c) C2C D) B2C
  - In \_\_\_\_\_ revenue model, revenue is generated from sales of goods, information or services.  
 A) Advertising B) Affiliation C) transaction D) Sales

- r) The full form of SSL is \_\_\_\_\_  
 A) Secure Socket Layer B) Secure Socket Locket  
 C) Single Socket Layer D) Soft Socket layer
- s) SET ensures \_\_\_\_\_.  
 A) Authentication B) Non-repudiation C) both A & B D) None
- t) Sites that process transactions for consumers are \_\_\_\_\_.  
 A) Transaction Broker B) Content Provider  
 C) Service Provider D) Market Creator
- u) The percentage of persons who visit a website and buy something is called \_\_\_\_\_.  
 A) Hits B) Conversion Rate C) affiliate D) none
- v) \_\_\_\_\_ is an online retail store.  
 A) Portal B) Service Provider C) E-Tailer D) Content Provider
- w) \_\_\_\_\_ type of technology scrambles the contents of files sent via the Internet.  
 A) Encryption B) Digital Signature C) SSL D) Decryption

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

- a) Explain the following B2C models in E-commerce.  
 (i) Portal (ii) E-Tailer (iii) Transaction Broker (iv) Market creator
- b) Explain the Security issues in E-commerce.

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

- c) Explain Encryption and Decryption. What is Private and Public key Encryption?
- d) What is M-commerce? Explain 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
1	EMPNO	NAME	BASIC	DA	HRA
2	E125	REDDY	50000		
3	E126	AHUJA	35000		
4	E127	AGARWAL	60000		
5	E128	KHATRI	25000		
6	E129	BAKSHI	40000		
7	E130	BHATT	60000		

Write the steps to obtain

- i) DA as 125% of the Basic if Basic is more than 40,000 otherwise 110% of the Basic in column D.



ii) HRA as 24% of the Basic whenever Basic is below 30,000 otherwise 20% of the Basic in column E.

iii) Find number of cells where the Basic is above 45,000 in cell C10.

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

	A	B	C	D	E	F
1	NAME	MATHS	SP	ECO	TOTAL MARKS	RESULT
2	SAMIR	55	60	50		
3	GANESH	56	62	55		
4	NASIR	65	60	54		
5	NEETA	70	65	60		
6	SARITA	75	65	65		
7	REKHA	45	40	50		

Write steps to

i) Find the Total Marks in column E.

ii) Result in column F where Result is 'PASS' if student gets 40 or more in each subject otherwise 'FAIL'.

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

(7)

c) Consider the following worksheet

	A	B	C	D
1	NAME	MONTHLY SALARY	ANNUAL INCOME	INCOME TAX
2	AMIN	60000		
3	APTE	70000		
4	LAL	20000		
5	KOHLI	30000		
6	JOSHI	40000		
7	IYER	26000		

Write steps to calculate Annual Income in column C and Income Tax in column D where Income-Tax is calculated as follows.

Taxable Annual Income	Rate
First 3,00,000	Nil
Next 2,50,000	10%
Excess	20%

Also find the total number of people whose monthly salary is less than 35000 in cell B10.

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

	A	B	C	D	E	F	G	H	I
1	<b>NAME</b>	<b>SALARY</b>	<b>CLASS</b>	<b>TA</b>		<b>SALARY</b>	<b>0</b>	<b>40000</b>	<b>100000</b>
2	ANTHONY	25000				<b>CLASS</b>	<b>III</b>	<b>II</b>	<b>I</b>
3	BASU	120000				<b>TA</b>	<b>2500</b>	<b>5000</b>	<b>7500</b>
4	BANERJEE	45000							
5	VARMA	20000							
6	DALAL	60000							
7	CHAWLA	125000							

Write steps to find the CLASS and TA in column C and D respectively using HLOOKUP function. Policy table to be referred for finding the CLASS and TA is given in the range G1:I3.

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

- a) The following data regarding marks of students is entered in a worksheet.

	A	B	C	D	E
1	<b>NAME</b>	<b>M1</b>	<b>M2</b>	<b>M3</b>	<b>TOTAL</b>
2	SEEMA	56	59	60	
3	JATIN	67	68	69	
4	HEMA	76	70	73	
5	RAVI	89	90	91	

Write the steps to

- Find the total marks for each student in the cells E2, E3, E4 and E5.
  - Create 3-D Bar chart for the data.
  - Create a Pie chart for marks of the student 'RAVI'.
  - Create a Line diagram for the marks in M1 and M2.
- b) The following Excel Sheet shows the most likely scenario of monthly expenses and income.

	A	B	C	D	E	F
1	<b>Family Budget</b>					
2						
3	Food	20000		Income	175000	
4	Electricity	5000				
5	Rent	30000		Saving		
6	Clothes	2500				
7	Education	10000				
8	Club	7500				
9	EMIs	15000				
10	Total Expenditure					

Write steps to find Total Expenditure in B10 and saving in E5 respectively. Explain steps to create Best and Worst Scenario by changing the values of cells B3 to B9.



Q. P. Code : 33275

For Best Scenario change B3 to 15000, B5 to 24000 and B8 to 4000.  
For Worst Scenario change B3 to 30000, B4 to 7000, B6 to 5000 and then display the summary.

- Q4. (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	RNO	NAME	MARKS	PHONE NO
2	210	SUNIL	75	25624111
3	202	ANIL	56	24721742
4	203	JATIN	67	25872462
5	204	VIJAY	87	25671029
6	205	MANOJ	91	24760023
7	206	ANITA	65	24598001
8	207	SMITA	48	24345678

Write steps to do the following:-

- Display only those rows where the Marks are more than 60.
  - Display only those rows where the Marks are above average Marks.
  - Display only those rows where name contains "N" as second alphabet.
- d) Explain the following functions in MS-EXCEL.
- CORREL()
  - COUNTBLANK()
  - SMALL()
  - YEAR()
  - MONTH()
  - NOW()
  - DAYS360()

- Q5. (A) Answer 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 Product name, Quantity sold and Unit Price of a product and calculate and display the Amount ( quantity \* Price) correct up to 2 decimal places
- Write a project in VB to design a suitable form which allows the user to enter three numbers and calculate and display the average of these numbers.

- Q5. (B) Answer any **one** sub-question from c) and d) in VISUAL BASIC (7)

- Write a project in VB to design a suitable form that allows the user to enter name of the student and the total marks obtained. Display the result as "PASS" if the total marks are more than or equal to 280 otherwise "FAIL".
- Write a project in VB to compute and display the sum of the series  $1*3+3*5+5*7+\dots+51*53$

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