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)   Embedded charts can be created directly on a worksheet.

(b)   A function must not contain another function in its argument.

(c)   The general syntax for an external reference formula is:
=[WorkbookName]SheetName!CellAddress.

B   Attempt any *two* sub-questions from d), e) and f) in VISUAL BASIC (Multiple Choice)   02

(d)   Which of the following file type contains the name of the other files used in a Visual Basic Project?
A) .FRM   B) .OCX   C) .VBP   D) .FRM

(e)   _____ is the final keyword used to indicate the end of a sub procedure.
A) Exit Sub   B) End Sub   C) Exit   D) Quit

(f)   The Visual Basic Project are identified by a _____.
A) ".VBP" suffix   B) ".MAK" suffix   C) ".FRM" suffix 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)   Transaction broker earns money in the form of commission each time a transaction occurs.

(h)   Richness refers to the total amount of information that is available to all the stakeholder.

(i)   Content provider is one of the major B2B model.

(j)   E-Market is a Subset of E-Commerce.

(k)   In C2C E-Commerce consumer transact with other consumer through a physical market.

(l)   Digital Signature changes for every Document.

(m)   In the Subscription model a fee is charged to the user for having access to a material on the website.

(n)   Secure Socket Layer is a protocol developed by Netscape for the security of the data in a transit.

(o)   The full form of WAP is Wireless Associate Protocol.

D   Attempt any *five* sub-questions from p), q), r), s), t), u), v), w) in E-Commerce. (Multiple Choice)   05

(p)   SET ensures _____.
A) Authentication   B) Non-repudiation
C) Both Authentication Non-repudiation   D) None of these

(q)   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

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(s) SET is an open standard in E-Commerce offered by _____.
   A) Certification Authorities   B) Microsoft
   C) Master and Visa Card   D) World Bank

(t) 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

(u) The sender and receiver will have the same key in _____ Key encryption.
   A) Symmetric   B) Asymmetric   C) Public   D) Private

(v) The Maximum number of the transaction done in E-Commerce are of _____ type.
   A) B2B   B) C2B   C) B2C   D) C2C

(w) A Computer-to-Computer exchange of business transaction is called _____.
   A) E-Business   B) Super Market   C) EDI   D) E-Market

Q.2 A   Answer any *one* sub-question from a) and b) in E-Commerce.   08
   (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.   07
   (c) What is M-commerce? What are its applications?
   (d) Explain SET protocol.

Q.3 A   Answer any *one* sub-question from a) and b) in MS-EXCEL   08
   (a) The following data is entered in a worksheet.

	A	B	C	D
1	Emp_Code	Grade	Basic Salary	Incentive
2	2123	I	35000	
3	5412	II	40000	
4	1234	III	25000	
5	6789	I	27000	
6	9876	III	22000	

Write the steps to compute the Incentive, which is calculated as Rs. 5000 for Grade I, Rs. 4000 for Grade II, and Rs. 3000 for Grade III.

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

	A	B	C	D	E
1	Name	Sales	Discount	Bonus	Total Earnings
2	John	60000			
3	Mary	90000			
4	Alex	55000			
5	Grace	40000			

Write the steps to compute the following:
1. **Discount**: 5% on sales up to 40000, 8% on sales above 40000 but up to 70000, and 10% on sales above 70000.
2. **Bonus**: 3% of sales for sales above 50000, otherwise bonus is zero.
3. **Total Earnings**: The sum of Discount and Bonus.

Q.3 B Answer any *one* sub-question from c) and d) in MS-EXCEL 07

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

	A	B	C	D	E
1	Employee ID	Department	Hours Worked	Hourly Rate	Total Salary
2	1001	HR	160	500	
3	1002	IT	180	600	
4	1003	Sales	150	400	
5	1004	Marketing	140	550	
6	Total salary for IT department				
7	Total hours worked by the Marketing department				

Write the steps for the following:
1. Total salary in column E (Total Salary = Hours Worked * Hourly Rate).
2. Total salary for IT department in cell B6.
3. Total hours worked by the Marketing department in cell B7.

(d) The following worksheet shows the scores obtained by students in different subjects:

	A	B	C	D	E	F	G	H
	NAME	Math	Sci.	Eng	History	Geo	Total	Remark
1	NAME	Math	Sci.	Eng	History	Geo	Total	Remark
2	JOHN	85	90	75	60	72		
3	ANNA	50	65	70	45	60		
4	ZOE	40	55	65	60	80		
5	MIKE	90	80	85	70	60		
6	CLARK	30	45	55	40	50		

Write the steps to obtain:
1. Total marks in column H
2. Remark in column I: "PASS" if the student scores 40 and above in all subjects; otherwise, "FAIL".

Q.4 A Answer any *one* sub-question from a) and b) in MS-EXCEL 08

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

	CNO	NAME	PHONE	BALANCE
1	102	RANI	9812544639	45000
2	536	RAM	9561248763	55000
3	115	VARUN	8856341289	26000
4	239	ASIFA	7862541985	68000
5	257	MEERA	9936458726	15000

Write steps to do the following:
A) Display the data for Balance greater than 55000.
B) Display the data where name start with "B"
C) Display the data where name is "RAM"
D) Display the data where the balance is between 30000 and 50000.

(b) The following Excel Sheet shows the most likely scenario of monthly expenses.

	A	B	C
1	Items	Cost	
2	Machinery	60000	
3	Carriage	8000	
4	Transport	30000	
5	Office equipment	6000	
6	Postage	7000	
7	Miscellaneous	3000	
8	Total	114000	

Explain steps to create Best and Worst Scenario by changing the values of cells B2 To B7. For Best Scenario change B3 to 5,000, B4 to 18,000, B5 to 4,000. For Worst Scenario change B2 to 80,000, B3 to 9,000, B6 to 10,000 and then display the summary.

Q.4 B   **Answer any *one* sub-question from c) and d) in MS-EXCEL**   07

(c) The following data is entered in a worksheet regarding Result of student in percentage year wise

	A	B	C	D	E
1	Name	2020	2021	2022	
2	VINITA	85	87	90	
3	PRAKASH	45	50	56	
4	ASHA	65	60	70	
5	SRIKANT	70	75	78	

Write the steps to
- A) To find the total percentage in Column E.
- B) Create Column chart for year 2020.
- C) To create Pie chart for year 2022.
- D) To create a line chart for ASHA in 2020 and 2022.

(d) Explain the following built-in functions in MS-EXCEL
1. YEAR() 2. TIME() 3. CORREL() 4. DATE() 5. COUNTA() 6. TODAY() 7. LARGE()

Q.5 A   **Answer any *one* sub-question from a) and b) in VISUAL BASIC**   08
(a) Write a project in VB to design a form where the user enters a radius, and the program calculates and displays the area and circumference of a circle.
(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**   07
(c) Write a project in VB to design a form that allows the user to enter a number and check whether it is even or odd.
(d) Write a project in VB to compute and display the sum of all multiples of 5 from 1 to 100.

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