

(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 formula may start with any symbol.
 - (b) Named ranges use absolute references.
 - (c) COUNTA and COUNTBLANK functions applied over a range, will always return the same value.
- B Attempt any two sub-questions from d), e) and f) in VISUAL BASIC (Multiple Choice) 02
- (d) A general purpose variable that can hold most other types of variable value is
1)String 2)Integer 3)Currency 4)Variant
 - (e) _____ contains the controls, which one can use in the creation of a form.
1)Menu 2)Tool Box 3)Tool bar 4)Project windo
 - (f) Which of the following is appropriate variable name to store the marks obtained by a student?
1) intMks 2) 3MarksAccts 3) Marks+Accts 4) M
- C Attempt any six sub-questions from g), h), i), j), k), l), m), n), o) in E-Commerce. (True Or False) 06
- (g) Decryption means converting readable text into cipher text
 - (h) B2B E-Commerce is between Business to Business and consumers.
 - (i) Transaction brokers charge a fee for facilitating transactions.
 - (j) B2C refers to Business selling goods to other business.
 - (k) E – Market is a subset of E-Commerce.
 - (l) E-tailer is a online retail shop.
 - (m) The cost of the products sold through E-Commerce is very high.
 - (n) M-Commerce means buying and selling of goods and services using a laptop.
 - (o) In Public Key Encryption there are two keys, one private and the other public.
- D Attempt any five sub-questions from p), q), r), s), t), u), v), w) in E Commerce. (Multiple Choice) 05
- (p) In E-commerce, to authenticate the sender of the message we use.
1)Digital 2)Privacy 3)Digital 4)Digital
Signature Protocol Sending Protocol
 - (q) The full form of HTTP in E-Commerce is Hyper Text Transfer :
1)Paper 2)Protocol 3)Power 4)Place
 - (r) The process of converting intelligible data into unintelligible data is called
1)Encryption 2)Decryption 3)EDI 4)E-Market

- (s) ebay.com is
 1)Only C2C 2)Only B2C 3)Only B2B 4)Both B2B & B2C
- (t) The model in E-commerce where companies earn revenue by referring users to other websites providing products/services is called
 1)Sales Revenue 2)Transaction Fee Revenue 3)Advertising Revenue 4)Affiliate Revenue
- (u) The most commonly used form of payment in E-Commerce is
 1)Credit Card 2)PayPal 3)Petro Card 4)Digital Cash
- (v) E-Commerce means.
 1)Buying and selling 2)Buying and selling over the internet 3)Accounting on the internet 4)None of these
- (w) In E-commerce the assurance that the message is not altered is known as
 1)Authentication 2)Confidentiality 3)Integrity 4)Validation

Q.2 A Answer any one sub-question from a) and b) in E-Commerce. 08

- (a) Explain how an Online Credit Card Transaction works?
 (b) Discuss any four payment systems in E-Commerce.

B Answer any one sub-question from c) and d) in E-Commerce. 07

- (c) Explain advantages and disadvantages of E-Commerce.
 (d) Discuss various security issues in E-Commerce.

Q.3 A Attempt any ONE sub-question from a and b in MS EXCEL 08

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

| | A | B | C | D | E | F | G |
|---|--------|--------|--------|--------|--------|----------|--------|
| 1 | CITY | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | AVG TEMP | REMARK |
| 2 | DELHI | 35 | 42 | 39 | 41 | | |
| 3 | MUMBAI | 38 | 31 | 34 | 45 | | |
| 4 | Ooty | 35 | 36 | 36 | 44 | | |
| 5 | Shimla | 32 | 38 | 37 | 43 | | |
| 6 | | | | | | | |

Write the steps to obtain

1. Average temperature in column F
2. Remark which is decided as per the following criteria.

| Average | Grade |
|----------------------|---------------|
| ≥ 40 | Extremely Hot |
| < 40 but ≥ 35 | Warm |
| < 35 but ≥ 30 | Moderate |
| < 30 | Cool |

b. Answer the following using spreadsheet.

| | A | B | C | D | E |
|---|----------|-------------|----------|------------------------|---|
| 1 | BILL NO. | BILLING AMT | DISCOUNT | DISCOUNTED BILLING AMT | |
| 2 | B001 | 250000 | | | |
| 3 | B002 | 140000 | | | |
| 4 | B003 | 360000 | | | |
| 5 | B004 | 235000 | | | |

Write the steps to compute discount using given criteria in column C and discounted billing amount in column D

| Billing Amt | % Discount |
|---------------------|------------|
| >=100000 & < 200000 | 5% |
| >=200000 & < 300000 | 10% |
| Above 300000 | 15% |

B Attempt any ONE sub-question from c and d in MS EXCEL

07

c. The following worksheet gives the database of 100 companies. Use the VLOOKUP function to create the COMPANY LABEL of the company in cells C103:C106 for the company serial number entered in the cell A104

| | A | B | C | D | E |
|-----|---------|-----------------|-----------------------|---------|-------|
| 1 | Sr. No. | Name of Company | Registered Mobile No. | GST No. | State |
| 2 | C1 | ..... | ..... | ..... | ..... |
| 3 | C2 | ..... | ..... | ..... | ..... |
| 4 | C3 | ..... | ..... | ..... | ..... |
| 5 | . | ..... | ..... | ..... | ..... |
| . | . | | | | |
| . | . | | | | |
| . | . | | | | |
| 101 | C100 | ..... | ..... | ..... | ..... |
| 102 | | | | | |
| 103 | Cod e | COMPAN Y NAME: | | | |
| 104 | C45 | MOBILE NO: | | | |
| 105 | | GST No: | | | |
| 106 | | STATE: | | | |
| 107 | | | | | |

d. Answer the following using spreadsheet

| | A | B | C |
|---|-------------------|----------------|------------|
| 1 | M/s | Taxable Income | Income Tax |
| 2 | Chitra Ltd | 2500000 | |
| 3 | ABC Ltd | 1200000 | |
| 4 | Harish & Co. | 6000000 | |
| 5 | Tanay Global Ent. | 13500000 | |

Write the steps to obtain the income tax columns C where income tax is calculated as follows.

| Taxable Income | Income Tax |
|----------------|------------|
| First 1000000 | Nil |
| Next 1000000 | 5% |
| Next 1000000 | 10% |
| Excess | 20% |

Q.4 A

Attempt any ONE sub-question from a and b in MS EXCEL

08

a. The following data has been entered in a worksheet

| | A | B | C | D | E |
|---|--------|--------------------------------|-----------|-----------|-----|
| 1 | | <i>Production in ('000 kg)</i> | | | |
| 2 | | Year 2020 | Year 2021 | Year 2022 | AVG |
| 3 | Rice | 1275 | 5000 | 4000 | |
| 4 | Wheat | 1500 | 1200 | 4100 | |
| 5 | Barley | 2000 | 2500 | 2170 | |
| 6 | Sugar | 3750 | 4000 | 4355 | |

Write the steps

- To calculate the average production in Column E.
- To construct 3-D column chart of 3 years for all 4 grains
- To construct pie-chart for the average production of the grains.
- To construct a line diagram for all 3 produce.

b. The following data has been entered in a worksheet

| | A | B | C | D | E |
|---|--------|---------|-----|-------|--------|
| 1 | EMP_NO | NAME | AGE | DEPT | SALARY |
| 2 | E-001 | Darshan | 35 | HR | 45000 |
| 3 | E-002 | Amit | 42 | IT | 50000 |
| 4 | E-003 | Mihir | 39 | A/C | 35000 |
| 5 | E-004 | Krupa | 28 | A/C | 40000 |
| 6 | E-005 | Sriram | 32 | SALES | 39000 |
| 7 | E-006 | Jaya | 30 | HR | 35000 |
| 8 | E-007 | Annie | 37 | IT | 55000 |

Write steps to do the following:-

- Display the data of the employees whose age is below 40.
- Display the data where names contains "A".
- Display the data from IT department
- Display the data of the students whose salary is between 30000 and 45000.

B Attempt any ONE sub-question from c and d in MS EXCEL

07

- c. Explain the following built-in functions in MS -EXCEL
 1. MID() 2. LOOKUP() 3. CORREL() 4. COUNTIF()
 5. TRIM() 6. YEAR() 7. NOT()

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

| | A | B | C | D | E | F |
|---|--------------|------------|----------|---------------|--------|---|
| 1 | Product | Cost Price | Qty Sold | Selling Price | Profit | |
| 2 | Laptop | 60000 | 50 | 65000 | | |
| 3 | Tab | 10000 | 20 | 12000 | | |
| 4 | Mobile | 15000 | 150 | 17000 | | |
| 5 | Smart Watch | 8000 | 100 | 9000 | | |
| 6 | | | | | | |
| 7 | Total profit | | | | | |
| 8 | | | | | | |

Write steps to find

- Total Profit in B7.
- How much quantity of each product should be sold to achieve a total profit of 50,00,000 assuming that the quantity should be integer only (Using Solver)

Given that Profit = (Selling Price – Cost Price) * Quantity

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 suitable form to enter any positive integer and display whether it is divisible by 7 or not.
- (b) Write a project in VB to design a suitable form which allows the user to enter length of a rectangle and breadth of the rectangle and then calculates and displays the area of the rectangle (Area =length X Breadth)

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

07

- (c) 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 30% of Basic Salary for Basic Salary up to 25,000 and 10% of Basic Salary otherwise
- (d) Write a project in VB to compute and display the sum of the series

$$1 + 4 + 7 + 10 + \dots + 28$$