Duration: 2 Hours   **Marks: 80**

Instructions: 1) All questions are compulsory.
2) Figure to the right indicates maximum marks to the questions.
3) Answer sub -questions in Question no1 and Question no 2 in not more than 100 words each.
4) Answer Question no 3 to Question no 6 in not more than 400 words each.

Q1. Write short note on any 4 of the following   (4x4 =16Marks)
   a) Importance of Corporate Social Responsibility
   b) Need for Business Ethics
   c) Reasons for Resistance to Change
   d) Features of Business Ethics
   e) Barriers to Ethical Business
   f) Corporate Responsibility towards government

Q2 Write short note on any 4 of the following   (4x4 =16Marks)
   a) Causes of conflict
   b) Limitations of Committees
   c) Powers and functions of directors
   d) ~~Limitations~~ Function of committees
   e) Informal groups
   f) Individual Conflict

Q3.a) Explain the concept Corporate Social Responsibility. Explain its features.   (12 Marks)
                               OR
   b) Discuss the Corporate Social Responsibility towards its Consumers and Employees.
                                                                        (12 Marks)

Q4 a) Explain the various steps involved in the process of Managing Change   (12 Marks)
                               OR
   b) Explain the various factors affecting Resistance to Change   (12 Marks)

Q5a) Explain the change process in an organisation in detail   (12 Marks)
                               OR
   b) Explain the Group Behaviour in committees.   (12 Marks)

Q6 a) Explain the Conflict Management Process   (12 Marks)
                               OR
   b) Suggest measures to make committees effective   (12 Marks)

Duration: 2 Hours   **Max. Marks: 80**

Instructions:
1. Figures to the right indicate maximum marks
2. Start each new question on a fresh page

Q1. Write a short note on (any 4)   (4x4 =16 MKS)
   a. Internet and its uses
   b. Web Browser and Web page
   c. Social Engineering
   d. Cyber Bullying
   e. Intellectual Property Rights(IPR)
   f. Different ways of protecting personal data

Q2. Write a short note on (any 4)   (4x4=16 MKS)
   a. Cyber Crime and its impact
   b. Classification of Cyber Crimes
   c. Cyber Laws in India-Evolution and Purpose
   d. Cyber Law provisions related to E-Commerce
   e. Collection stage during forensic
   f. Data recovery during cyber forensics

Q3. Answer the following questions (any 2)   (6x2=12 MKS)
   a. What is an IP address? Distinguish between public and private IP addresses.
   b. Write a note on mobile app threats.
   c. What is cyber warfare? What is the infrastructure targeted in these attacks? Give some examples

Q4. Answer the following questions (any 2)   (6x2=12 MKS)
   a. What is meant by 'Online Privacy'? What is the significance of a Privacy Policy?
   b. What are the safety measures you should follow when you choose a PIN or a Password?
   c. What is Phishing? Explain the different techniques used for Phishing.

Q5. Answer the following questions (any 2)   (6x2=12MKS)
   a. What is cyber stalking? Give any 6 security tips which you think are important to avoid cyber stalking.
   b. Explain the different types of Cyber offences punishable under the IT Act 2000
   c. Differentiate between bailable and non-bailable offences. Give 3 examples of each.

Q6. Answer the following questions (any 2)   (6x2=12MKS)
   a. What is computer forensics? Who may require to use computer forensics?
   b. Explain the various stages involved in the Forensic Procedure
   c. Write a note on (i) types of data collected during forensics (ii) Media Sanitization.

Duration:2 hours   Max. Marks :80

INSTRUCTIONS:
1. All questions are compulsory.
2. Start each new question on fresh page.
3. Figures to the right indicate full marks
4. Graph paper and Log tables are provided with request.

Q.1   Attempt the following: (5 X 4 = 20)

    a. Find at the point P which divides internally the line joining the points A(8,-4) and B(3,6) in the ratio 1:2.

    b. Find the derivative of the following w.r.t x if
$$y = (x^2 + 2)(x - 5).$$

    c. If $f(x) = x + 2$ and $g(x) = 2x$, find $f(g(x))$ and $g(f(x))$.

    d. Evaluate the following integrals:
$$\int (x + 5)(x - 2)\, dx.$$

<div align="center">Or</div>

Q.I   Attempt the following: (5 X 4 = 20)

    w. Find the distance between two points (5,2) and (8,4).

    x. Find the derivative of the following w.r.t x if
      i) $y = x^5 + x^{-3} + e^x + 7^x - \log x.$

    y. If $f(x) = 2x + 7$ and if $f(x + 1) = f(2x - 1)$, find x.

    z. Evaluate the following integrals:
$$\int_{2}^{3} (1 - 2x) dx$$

Q.2   Attempt the following: (5 X 4 = 20)
    a. Find $\lim_{x \to 2} 4x^2 + kx + 6 = 15$, find k.

    b. Find the values of the demand, for which the supply function
$$f(x) = x^2 - 4x + 7 \quad \text{is i) increasing (ii) decreasing.}$$

c. Solve graphically, the following L.P. problem.

Maximize $z = x + y$

subject to : $x + 2y \leq 8$, $3x + 2y \leq 12$, $x \geq 0, y \geq 0$

d. For the function $f(x, y) = x^2 + 2xy - y^2$. Find f_x and f_y at $(0, 1)$.

OR

Q.II   Attempt the following: (5 X 4 = 20)

w. Examine the continuity of at f at $x = 0$ if

$$f(x) = \frac{e^{3x} - 1}{4x} \qquad x \neq 0$$

$$= \frac{3}{4} \qquad x = 0$$

x. If the total cost function is given by $C = 4x^2 + 7x + 3$, find the average cost and marginal cost when $x = 4$

y. Solve graphically the following L.P. P

Minimize $z = 5x + 2y$

subject to : $5x + y \geq 10$, $x + y \geq 6$, $x \geq 0, y \geq 0$.

z. The demand function for a certain commodity is given by

$D(p_1, p_2) = 6 + 3p_2 - p_1^3$.

Find the Marginal demand at $p_1 = 1$ and $p_2 = 3$.

Q.3   Attempt the following: (5 X 4 = 20)

a. If the compound rate of interest is 10% p.a. payable quarterly, find effective rate.

b. Find the coordinates of the point dividing the segment joining the point (-5,-3) and (2,-4) externally in the ratio 2:3.

c. The demand function of a monopolist is given by $p = 1500 - 2x - x^2$. Find (i) the revenue function, (ii) the marginal function when x=20.

d. A firm produces an output of x tons at a total cost $C = x^3 - 6x^2 + 30x$. Find the output at which the average cost is minimum.

OR

Q.III   Attempt the following: (5 X 4 = 20)

w. Vivek deposits annuity of Rs. 5000 in a bank at the end year@ 9% p.a. compound interest, for a period of 5 years. Find the total amount at the end of 5th year.

x. Find the equation of the line passing through the point (1, 2) and having slope 2.

y. The demand function for a certain commodity is $p = 100 - 5x$. Find the consumer's surplus at $x = 4$

z. If $y = e^x + x^3 - 3x$ Find $\frac{d^2y}{dx^2}$.

Q.4 Attempt the following: (5 X 4 = 20)

a. Calculate the present value of an annuity for yearly investment of Rs.7000 @ 12% p.a. compound interest for a period of 9 years.

b. Write down the equation of a line passing through the points A(1,6) and B(-5,0).

c. If the demand function is given by $D = 12 + 4p - p^2$, p being the price Find price elasticity of demand when p=3.

d. Evaluate: $\int \left[\frac{x^2+x-12}{x-3} \right] dx$

Or

Q.IV Attempt the following: (5 X 4 = 20)

w. What will an investment of Rs.7, 500 amounts to in five years at 7.5% compound interest per annum?

x. Show that the lines with equations 2y=x+1 and 3x-6y-8=0 are parallel.

y. The cost function for x units of a product produced and sold by a company is C(x) =250+0.005x^2 and the revenue is given as R=4x.Find how many items should be produced to maximize the profit. What is the maximum profit?

z. Evaluate: $\int_0^2 (e^{2x+3} - 2x)dx$.

Duration: 2 hrs   **Marks: 80**

Instructions: *All questions are compulsory with internal choice.*
Figures to the right denote marks

Q1. Write short notes on any 4 of the following: **(4x4 =16 mks)**
    a. Tourism Products
    b. Event Based Tourism
    c. Travel Agent v/s Tour Operator
    d. International Tourism
    e. Tourism Supply
    f. Secondary Constituents of Tourism Industry

Q2. Write short notes on any 4 of the following: **(4x4 =16 mks)**
    a. Multiplier Effect
    b. Environmental Impact of Tourism
    c. Demonstration Effect in Tourism
    d. Hospitality v/s Tourism Industry
    e. Event Planning segment in Hospitality Industry
    f. Recent Trends in Hospitality Industry

Q3.a) Explain the 5 A's of Tourism Product.   **(12 mks)**
OR
    b) Explain the characteristics of Tourism. .   **(12 mks)**

Q4. a) Explain the different forms of Tourism. .   **(12 mks)**
OR
    b) Explain the push and pull factors of Tourism Industry. .   **(12 mks)**

Q5. a) Explain the negative economic impacts of Tourism. .   **(12 mks)**
OR
    b) What are the socio-cultural impacts of Tourism?   **(12 mks)**

Q6. a) Explain the factors affecting Hospitality and Tourism Industry.
OR
    b) i) Explain the employment opportunities in Tourism and Hospitality Industry.**(6 mks)**
       ii) Explain the various sectors comprising the Hospitality Industry.   **(6 mks)**