MAHATMA GANDHI INSTITUTE OF TECHNOLOGY (Autonomous)
B.Tech. V Semester End Examinations
(Computer Science and Business System)
(Model Question Paper)

| **MR-22** |

Subject Title: Financial Management   **Subject Code: MS502HS**
Time: 3 hours   Max. Marks : 60

Note: Answer ALL Questions
Part-A (10 x 1 = 10 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
Unit-I					
1. a)	Define is Agency Cost.	1	1	1	1
1. b)	Differentiate between Profit maximization and Wealth maximization.	1	2	1	11
Unit-II					
1. c)	Explain Investment Decision Process.	1	2	2	2
1. d)	What are the merits and demerits of payback period method?	1	1	2	11
Unit-III					
1. e)	How is degree of Financial Leverage measured?	1	2	3	3
1. f)	Discuss assumptions of NOI approach.	1	1	3	3
Unit-IV					
1. g)	Illustrate the effects of Bonus share.	1	3	4	11
1. h)	State the assumptions of Walter's model.	1	1	4	8
Unit-V					
1. i)	Discuss the factors affecting the working capital needs of a firm.	1	3	5	10
1. j)	What is Cash Planning? What purpose does it serve?	1	2	5	11

Part-B (5 x 10 = 50 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
Unit-I					
2. a)	Describe briefly the nature and scope of Financial Management.	5	2	1	1
2. b)	You are planning to hoard Rs.7,50,000/- by the end of 10 years by making equal annual year-end deposits over the next 5 years. Assuming 6% rate of return, how much should you deposit at the end of each year to accumulate the amount.	5	4	1	10
OR					
2. c)	Elaborate the goals of Financial Management with suitable examples.	5	2	1	1
2. d)	Discuss the basic financial decisions and explain how they involve risk-return trade off.	5	2	1	1
Unit-II					
3. a)	Discuss in detail the significance of Profitability Index. What are the criteria for judging the worth of investment based on Profitability Index?	5	2	2	7
3. b)	Compare and contrast between NPV and IRR	5	3	2	7
OR					
3. c)	A company is considering the following investment projects: Cash flows (in lakhs of Rs. Projects — CO, C1, C2, C3 A -100000 +100000 B -100000 +75000 +75000 C -100000 +20000 +40000 +120000 D -100000 +100000 +30000 +30000 a) Rank the project according to a) Payback Period b) ARR c) IRR and d) NPV assuming discount rate of 8%.	10	5	2	11
Unit-III					
4. a)	What is EBIT-EPS analysis? Illustrate your answer.	5	3	3	9

P.T.O.

		M	L	CO	PO
4. b)	The following information is available from the Balance Sheet of a company Equity share capital (20,000 shares of Rs. 10 each) Rs. 2,00,000 Reserves and Surplus Rs. 1,30,000 8% Debentures Rs. 1,70,000 The rate of tax for the company is 35%. Current level of Equity Dividend is 10%. Calculate the weighted average cost of capital	5	5	3	11

OR

4. c)	Explain Net Income approach of valuing a firm with suitable example.	5	2	3	9
4. d)	Using the following data calculate operating leverage: Selling price Rs 20, Variable Cost Rs.12, Fixed cost Rs 1000, Installed capacity 3000 and Actual sales 2000.	5	2	3	9

Unit-IV

5. a)	Sketch the assumptions of MM's dividend irrelevance argument.	5	1	4	9
5. b)	A company earns Rs 10 per share at an internal rate of 15%. The firm has a policy of paying 40% of earnings as dividends. If the required rate of return is 10% determine the price of the share under Gordon's model	5	4	4	11

OR

5. c)	What is stable dividend policy? Why should it be followed?	5	2	4	8
5. d)	Explain what buyback of shares is. List out its advantages.	5	2	4	10

Unit-V

6. a)	Describe how various factors affect a firm's working capital requirement.	5	1	5	10
6. b)	Debate the consequences of lengthening versus shortening of the credit period.	5	2	5	10

OR

6. c)	Elaborate the motives of holding cash in an organisation.	5	2	5	10
6. d)	A proforma cost sheet of a company provides the following data 		Rs.
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Cost per unit:	
Raw Material	52.0
Direct Labour	19.5
Overheads	39.0
Total Cost(per unit)	110.5
Profit	19.5
Selling Price	130.0 | The following is the additional information available: Average raw material in stock: 1 month Average material in process: ½ month Credit allowed by suppliers: 1 month Credit allowed to debtors: 2 months Time lag in payment of wages: 1 ½ weeks, overheads: 1 month. ¼ of the sales are on cash basis. Cash balance is expected to be Rs. 1,20,000. Prepare the statement showing the working capital needed to finance a level of activity of 70,000 units of output. Assume that the production is carried on evenly throughout the year.	5	5	5	11

M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY (Autonomous)
B.Tech. V Semester End Examinations
(Common to CSE, CSB, CSM & CSD)
(Model Question Paper)

MR-22

Subject Title: Computer Networks **Subject Code: CS502PC**
Time: 3 hours Max. Marks : 60

Note: Answer ALL Questions
Part-A (10 x 1 = 10 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
Unit-I					
1. a)	Contrast between Connection oriented and Connection less service?	1	2	1	1
1. b)	List the names of the layers of OSI / ISO Model?	1	1	1	1
Unit-II					
1. c)	Define Bit stuffing?	1	1	2	1
1. d)	List the carrier sense multiple access protocols?	1	1	2	1
Unit-III					
1. e)	Define congestion?	1	1	3	1
1. f)	State the differences between IPV4 and IPV6?	1	1	3	1
Unit-IV					
1. g)	List the Transport Service primitives?	1	1	4	1
1. h)	Sketch the UDP header?	1	2	4	2
Unit-V					
1. i)	Demonstrate about DNS?	1	2	5	1
1. j)	Compare FTP and TFTP?	1	2	5	1

Part-B (5 x 10=50 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
Unit-I					
2. a)	Compare LAN, MAN and WAN?	5	2	1	1
2. b)	Explain in detail about the OSI Model with a neat sketch?	5	2	1	2
OR					
2. c)	Compare and contrast the OSI and TCP/IP reference models.	5	2	1	1
2. d)	Summarize about twisted pair cables and coaxial cables with neat diagram.	5	2	1	2
Unit-II					
3. a)	What is framing? Explain various framing techniques of Data Link Layer	5	1	2	1
3. b)	Explain the CRC error detection technique using generator polynomial x^4+x^3+1 and data 11100011.	5	2	2	2
OR					
3. c)	Explain about GBN Sliding Window Protocol.	5	2	2	1
3. d)	Compare and contrast Pure ALOHA and Slotted ALOHA channel allocation Methods.	5	2	2	1
Unit-III					
4. a)	What are the design issues of Network Layer? Explain in detail.	5	1	3	1
4. b)	Define congestion. Write about congestion control policies	5	1	3	1
OR					
4. c)	Demonstrate how to make routing table using distance vector routing and list down the limitations.	5	2	3	2
4. d)	Given a network address of 192.168.100.0 and a subnet mask of 255.255.255.192. a) How many subnets are created? b) How many hosts are there per subnet?	5	1	3	1
Unit-IV					

5. a)	Illustrate the connection establishment and release in transport layer.	5	2	4	2
5. b)	How crash recovery is managed at the transport layer?	5	1	4	1
OR					
5. c)	What are the services provided by transport layer to the upper layers?	5	2	4	1
5. d)	Describe in brief about TCP segment Header	5	2	4	1
Unit-V					
6. a)	What is DNS? What are the services provided by DNS?	5	1	5	1
6. b)	Write notes on SMTP?	5	3	5	1
OR					
6. c)	How would you summarize the concepts of E-mail, its architecture and services?	5	2	5	1
6. d)	Elaborate on SNMP with an example.	5	4	5	1

M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY (Autonomous)
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MR-22

Subject Title: Web Technologies **Subject Code: CB501PC**
Time: 3 hours Max. Marks: 60

Note: Answer ALL Questions
Part-A (10 x 1 = 10 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
	Unit-I				
1. a)	What are the types of HTML Lists?	1	1	1	1
1. b)	What is XML? List characteristic features of XML	1	1	1	1
	Unit-II				
1. c)	Explain the scope of the variables in JavaScript	1	2	2	1,2
1. d)	Give a note on this keyword in JavaScript	1	1	2	1,2
	Unit-III				
1. e)	What are JSP Implicit Objects?	1	1	3	2
1. f)	Draw Servlet life cycle	1	2	3	2
	Unit-IV				
1. g)	Explain the structure of PHP script	1	2	4	2
1. h)	Demonstrate how to pass a variable by value in PHP	1	2	4	1
	Unit-V				
1. i)	List different types of JDBC drivers	1	1	5	1
1. j)	Write the syntax to connect to database using PHP	1	1	5	2

Part-B (5 x 10=50 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
	Unit-I				
2. a)	Design the Login& Registrations pages using HTML.	5	3	1	1,2
2. b)	Describe XML schema for designing a Web page as an illustration	5	2	1	3
	OR				
2. c)	Explain different types of CSS in detail with examples.	5	2	1	2
2. d)	What is XML Schema? State its purpose and list its advantages over DTD	5	1	1	2
	Unit-II				
3. a)	Build a JavaScript program to convert temperature from C to F and vice versa	5	3	2	1
3. b)	Write a JavaScript to display whether given number is a prime or not	5	2	2	2
	OR				
3. c)	Explain the control statements supported by Java Script	5	2	2	1
3. d)	Discuss the event handlers in JavaScript	5	2	2	1
	Unit-III				
4. a)	Write a servlet program to retrieve data from the database	5	1	3	3
4. b)	With a neat diagram explain JSP processing	5	2	3	3
	OR				
4. c)	Explain the concept of Session tracking in detail	5	3	3	2
4. d)	Give a brief note on Anatomy of a JSP Page.	5	2	3	2
	Unit-IV				
5. a)	Discuss about various functions used in PHP with examples	5	3	4	2
5. b)	Write a PHP script that reads data from one file and write into another file	5	1	4	3
	OR				
5. c)	How to execute a simple query in PHP? Illustrate	5	4	4	1,3

P.T.O.

		M	L	CO	PO
5. d)	Explain database connectivity in PHP with reference to MYSQL	5	2	4	3
Unit-V					
6. a)	Explain in detail about CRUD operations using database	5	2	5	2
6. b)	Explain various types of JDBC drivers	5	2	5	3
OR					
6. c)	Explain the steps database using JDBC to connect to database using JDBC	5	3	5	2
6. d)	How Relational database is different from traditional database, Justify	5	2	5	2,3

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MR-22

Subject Title: Legal Aspects of Business and Ethics　　　**Subject Code: MS511PE**
Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　Max. Marks: 60

Note: Answer ALL Questions
Part-A (10 x 1 = 10 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
Unit-I					
1. a)	Explain incorporation of a company.	1	3	1	6
1. b)	When is Extra-ordinary General meeting convened?	1	2	1	6
Unit-II					
1. c)	Highlight the role of free consent as an essential element of valid contract.	1	1	2	8
1. d)	Differentiate between Conditions and Warranties as per Sale of Goods Act, 1930	1	2	2	8
Unit-III					
1. e)	Explain types of Cheque Crossing?	1	1	3	11
1. f)	Explain the meaning of 'holder' & 'holder in due course under the Negotiable Instruments Act, 1881.	1	1	3	11
Unit-IV					
1. g)	State the Five Myths about Business Ethics.	1	1	4	8
1. h)	Differentiate Care-based morality from Justice-based Morality	1	2	4	8
Unit-V5					
1. i)	Elaborate on Cyber Law.	1	2	5	8
1. j)	Discuss few recent developments in Cyber Law.	1	3	5	8

Part-B (5 x 10 = 50 Marks).

Q. No.	Stem of the Question	M	L	CO	PO
Unit-I					
2. a)	Explain the qualifications and disqualifications of independent director of company	5	2	1	6
2. b)	Examine the Powers and duties of Directors of Company as per Companies Act, 2013.	5	2	1	6
OR					
2. c)	Define Resolution. Explain types of and need for resolutions as per Companies Act, 2013.	5	2	1	6
2. d)	What is winding -up of a company? Elaborate the various modes of winding up?	5	2	1	6
Unit-II					
3. a)	Discuss the essentials features of a valid contract with examples.	5	2	2	8
3. b)	When is a contract said to have been breached? Explain various remedies available to both the aggrieved party and the party which has breached the contract.	5	2	2	8
OR					
3. c)	Explain the term Contingent Contract with reference to the Indian Contract Act, 1872 with the help of an example. Also discuss the rules relating to enforcement of a contingent contract.	5	3	2	8
3. d)	Venkat is a trader in selling of wheat. Harsha comes to his shop and ask Venkat to show him some good quality wheat. Harsha is satisfied with the quality of wheat. Venkat agrees to sell 100 bags of wheat to Harsha on 10th June 2021. The delivery of wheat and the payment was to be made in next three months i.e. by 10th September 2021 by	5	6	2	8

	Harsha. Before the goods are delivered to Harsha, Venkat gets another customer Amit in his shop who is ready to pay higher price for the wheat. Venkat sells the goods of Harsha (which were already lying in his possession even after sale) to Amit. Amit has no knowledge that Venkat is not the owner of goods. With reference to Sale of Goods Act,1930, discuss if such a sale made by Venkat to Amit is a valid sale?				
Unit-III					
4. a)	What is a negotiable instrument? Explain its essential characteristics.	5	1	3	11
4. b)	Explain the conditions in which a party to a negotiable instrument is discharged from liability.	5	2	3	11
OR					
4. c)	Define the meaning of 'holder' and 'holder in due course under the Negotiable Instruments Act, 1881. Explain the rights of the holder' and holder in due course.	5	2	3	11
4. d)	What is GST? Explain types, features and benefits of GST.	5	2	3	11
Unit-IV					
5. a)	Define Business ethics. Why does it matter in changing business environment?	5	3	4	8
5. b)	"Business ethics impact a company at three different levels". Discuss.	5	3	4	8
OR					
5. c)	Describe the stages of moral development according to Kohlberg's study	5	2	4	8
5. d)	Can Business Ethics be taught and trained?	5	4	4	8
Unit-V					
6. a)	Explain the objectives of IT Act, 2000.	5	3	5	8
6. b)	Discuss the need for cyber laws in the Indian context.	5	3	5	8
OR					
6. c)	Provide a comprehensive overview of the current cybercrime scenario in India, including notable cases and trends.	5	5	5	8
6. d)	Explain the major challenges faced by Indian law in addressing cybercrime and regulating the digital environment	5	6	5	8

M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

Subject Title: Enterprise Resource Planning   **Subject Code: MS514PE**
Time: 3 hours   Max. Marks : 60

Note: Answer ALL Questions
Part-A (10 x 1 = 10 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
	Unit-I				
1. a)	Define ERP.	1	1	1	3
1. b)	Define Lead Time	1	1	1	3
	Unit-II				
1. c)	What is meant by MIS?	1	1	2	3
1. d)	Define OLAP.	1	1	2	3
	Unit-III				
1. e)	What is meant by Market Dynamics?	1	1	3	3
1. f)	How manufacturing and logistics modules are related?	1	1	3	3
	Unit-IV				
1. g)	Which costs are termed as hidden costs?	1	1	4	3
1. h)	Differentiate between vendor and supplier.	1	1	4	3
	Unit-V				
1. i)	How e-commerce is related with ERP?	1	1	5	3
1. j)	What are the steps involved in integration of ERP?	1	1	5	3

Part-B (5 x 10=50 Marks)

Q. No.	Stem of the Question	M	L	CO	PO
	Unit-I				
2. a)	Discuss about the evolution of ERP from 1960's.	5	2	1	3
2. b)	Discuss the various steps involved in Product Life Cycle.	5	2	1	3
	OR				
2. c)	Define LAP. What are the various types of protocols involved in access?	5	2	1	3
2. d)	How can Supply Chain Management be integrated with the Organizational ERP?	5	2	1	3
	Unit-II				
3. a)	How the changing dynamics of the market needs to be evaluated for change of decision?	5	2	2	3
3. b)	What are the different modules in ERP? Explain about any two modules in detail.	5	2	2	3
	OR				
3. c)	Explain the process of Business reengineering.	5	2	2	3
3. d)	Explain the differences between Data Warehousing and Data Mining.	5	3	2	3
	Unit-III				
4. a)	What are the different Functional Modules of ERP and discuss about their importance?	5	3	3	7
4. b)	Justify the statement "Customer Relationship Module of ERP is essential".	5	3	3	7
	OR				
4. c)	Explain various criteria's to be met by an ERP system to adopt for a Medium Enterprise.	5	2	3	7
4. d)	Explain about cross functional integrated ERP systems.	5	1	3	7

	Unit-IV				
5. a)	Explain about the areas in which hidden costs are incurred which may lead to overrun the budget while implementing the ERP system.	5	1	4	3
5. b)	Elaborate about the steps involved implementation cycle of the ERP.	5	1	4	3
	OR				
5. c)	What are the steps followed in ERP development using SDLC?	5	2	4	7
5. d)	What are the different steps involved in Maintenance of ERP system?	5	2	4	7
	Unit-V				
6. a)	What are the risks faced by the firms which are implementing ERP system?	5	3	5	3
6. b)	What are the causes for the Failure of ERP System?	5	1	5	3
	OR				
6. c)	How ERP is integrated into Organizational Culture?	5	2	5	11
6. d)	Explain with example about the future trends in Web enabled ERP system.	5	2	5	11

M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome