

Roll No



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING  
END TERM EXAMINATION - JUN 2023**

**Semester :** Semester IV - 2021

**Course Code :** CSE2025

**Course Name :** Sem IV - CSE2025 - Business Continuity and Risk Analysis

**Program :** ISD

**Date :** 12-JUN-2023

**Time :** 9.30AM - 12.30PM

**Max Marks :** 100

**Weightage :** 50%

**Instructions:**

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

**PART A**

**ANSWER ALL THE QUESTIONS**

**(10 X 2 = 20M)**

1. List out the advantages of GST. (CO4) [Knowledge]
2. Find out the graph pattern for "Marubozu". (CO1) [Knowledge]
3. Find out the Beta Value in the business market? (CO2) [Knowledge]
4. Find out the trailing 12 months revenue for a company if the most recently completed quarter of a company is Q1 of 2021.  
•Q1 of 2021: \$10 million  
•Q4 of 2020: \$12 million  
•Q3 of 2020: \$9 million  
•Q2 of 2020: \$9 million] (CO2) [Knowledge]
5. Select the candle stick pattern for support and resistance (CO3) [Knowledge]
6. Recall the seven elements of business continuity. (CO4) [Knowledge]
7. The annual report, the company's operating income in 2018 was ₹70.90 billion, with total assets and total current liabilities of ₹365.73 billion and ₹116.87 billion, respectively, as of September 29, 2018. Based on the information provided, show the company's ROCE for 2018 (CO3) [Knowledge]
8. List out the five ways to Reduce Cybersecurity Risk for Your Organization (CO4) [Knowledge]
9. Calculate the P/E ratio for Walmart Inc. (WMT) as of Feb. 3, 2021, when the company's stock price closed at \$139.55.2 The company's earnings per share for the fiscal year ending Jan. 31, 2021, was \$4.75, according to *The Wall Street Journal* (CO3) [Knowledge]
10. What is a disaster recovery (DR) plan? (CO1) [Knowledge]

## PART B

### ANSWER ALL THE QUESTIONS

(5 X 10 = 50M)

11. According to the annual report, the company's operating income in 2018 was ₹70.90 billion, with total assets and total current liabilities of ₹365.73 billion and ₹116.87 billion, respectively, as of September 29, 2018. Based on the information provided, Show the company's ROCE for 2018. (CO3) [Comprehension]
12. JK Tyre & Industries Ltd. (JKIT) is an India-based company engaged in the business of manufacturing of automotive tires, tubes and flaps. As of March 31, 2011, the Company had an installed capacity of 9.861 million automotive tires and 1.382 million automotive tubes. The Company's manufacturing plants are located at five centers, which include Jaykaygram, Rajasthan; Banmore, Madhya Pradesh; Mysore Plant I, Karnataka; Mysore Plant II, Karnataka, and Mysore Plant III, Karnataka. During the fiscal year ended March 31, 2011, the Company produced 8.598 millions of automotive tires; 5.462 millions of automotive tubes, and 2.447 millions of automotive flaps. The Company's products are marketed under the JK Tyre and Vikrant brands. Show the balance sheet between "Total Liabilities and Total Assets".

Balance Sheet

| Balance Sheet of Jindal Steel and Power | Mar-23   |
|---|----------|
| Equity Share Capital                    | 49.25    |
| <b>TOTAL SHARE CAPITAL</b>              | ?        |
| Reserve and Surplus                     | 2,839.97 |
| <b>TOTAL RESERVES AND SURPLUS</b>       | ?        |
| <b>TOTAL SHAREHOLDERS FUNDS</b>         | ?        |
| <b>NON-CURRENT LIABILITIES</b>          |          |
| Long Term Borrowings                    | 849.03   |
| Deferred Tax Liabilities                | 369.77   |
| Other Long Term Liabilities             | 640.78   |
| Long Term Provisions                    | 32.99    |
| <b>TOTAL NON-CURRENT LIABILITIES</b>    | 1892.57  |
| <b>CURRENT LIABILITIES</b>              |          |
| Short Term Borrowings                   | 1698.28  |
| Trade Payables                          | 1036.86  |
| Other Current Liabilities               | 478.33   |
| Short Term Provisions                   | 10.76    |
| <b>TOTAL CURRENT LIABILITIES</b>        | ?        |
| <b>TOTAL CAPITAL AND LIABILITIES</b>    | ?        |
| <b>ASSETS</b>                           |          |
| <b>NON-CURRENT ASSETS</b>               |          |
| Tangible Assests                        | 3,479.45 |
| Intangible Assets                       | 0        |
| Capital Work In Progress                | 0        |
| Other Assets                            | 0        |
| <b>FIXED ASSETS</b>                     | ?        |
| Non-Current Investments                 | 786.67   |
| Deferred Tax Assets[Net]                | 0        |
| Long Term Loan and Advances             | 0        |
| Other Non-Current Assets                | 96.93    |
| <b>TOTAL NON-CURRENT ASSETS</b>         | ?        |
| <b>CURRENT ASSETS</b>                   |          |
| Current Investment                      | 11.17    |
| Inventories                             | 1291.67  |
| Trade Receivables                       | 1774.2   |
| Cash and Cash Equivalents               | 78.77    |
| Short Term Loans and Advance            | 0        |
| Other Current Assets                    | 487.16   |
| <b>TOTAL CURRENT ASSETS</b>             | ?        |
| <b>TOTAL ASSETS</b>                     | ?        |

(CO4) [Comprehension]

13. For the following transaction from Mysuru to Shivamogga, Calculate the amount of bill: MRP = Rs 50000, Discount %=20%, GST =28%
- Discount=?  
 Selling price(Discounted Value)=?  
 CGST = ?  
 SGST =?  
 IGST = ?  
 Amount of Bill =?

(CO3) [Comprehension]

14. Accenture plc is a professional services company. It provides management and technology consulting services. Its segments include Communications, Media and Technology; Financial Services; Health and Public Service; Products, and Resources. The Communications, Media & Technology segment serves communications, electronics, technology, media and entertainment industries. The Financial Services segment serves banking, capital markets and insurance industries. The Health & Public service segment serves healthcare payers and providers, and government departments and agencies, public service organizations, educational institutions and non-profit organizations. The Resources segment serves chemicals, energy, forest products, metals and mining, utilities and related industries. It offers digital advertising services. It also provides companies with a comprehensive offering across content creation production and distribution. It provides managed security and cyber defense services (MSS). Show the return on equity for accenture.

RoE

| <b>Balance sheet of Accenture</b>                          |                |
|--|----------------|
| <b>Particular</b>  | <b>Amount</b>  |
| Land and Building  | 5,00,000       |
| Machinery  | 2,50,000       |
| Debtors  | 60,000         |
| Inventories  | 40,000         |
| Cash and Cash Equivalent                                   | 50,000         |
| <b>Total Assets</b>  | <b>?</b>       |
| <b>Following liabilities in Balance Sheet of Accenture</b> |                |
| Debentures   | 4,00,000       |
| Creditors  | 40,000         |
| Out standing expenses                                      | 60,000         |
| <b>Total liabilities</b>                                   | <b>?</b>       |
| <b>Share holding equity of Accenture</b>                   | <b>?</b>       |
| <b>Calculation of Net Income</b>                           |                |
| <b>Particular</b>  | <b>Amounts</b> |
| Sales  | 5,00,000       |
| Interest Income  | 30,000         |
| <b>Total Income(Revenue)</b>                               | <b>?</b>       |
| Salaries and Wages   | 3,50,000       |
| Internet and Telephone                                     | 15,000         |
| Advertising costs  | 30,000         |
| Electricity  | 50,000         |
| Depreciation   | 25,000         |
| Miscellaneous Expenses                                     | 5,000          |
| <b>Total Expenses</b>                                      | <b>?</b>       |
| <b>Net Income</b>  | <b>?</b>       |
| <b>Return on Equity</b>                                    | <b>?</b>       |

(CO3) [Comprehension]

15. ACC Ltd is India's foremost manufacturer of cement and concrete. The company's research and development facility has a unique track record of innovative research, product development and specialized consultancy services. ACC's brand name is synonymous with cement and enjoys a high level of equity in the Indian market. The company has also extended its services overseas to the Middle East, Africa, and South America, where it has provided technical and managerial consultancy to a variety of consumers, and also helps in the operation and maintenance of cement plants abroad. They are among the first companies in India to include commitment to environmental protection as one of its corporate objectives, long before pollution control laws came into existence. The company also in the business activities of Cement, Ready Mixed Concrete. Illustrate the "Share Holding Pattern" for promoters, FIs, DIs, Government and Public (CO4) [Comprehension]

| Share holding Pattern                            |       |
|--|-------|
| <b>Promoters</b>                                 | ?     |
| Ambuja Cement Limited                            | 50.05 |
| Holderind Investments Ltd                        | 4.48  |
| Endeavour Trade And Investment Limited           | 2.16  |
| <b>FIs</b>                                       | ?     |
| xyz ltd  | 10.05 |
| <b>DIs</b>                                       | ?     |
| Life Insurance Corporation of India- ULIF0042009 | 6.41  |
| SBI Arbitrage Opportunities Fund                 | 1.8   |
| Tata Infrastructure Fund                         | 1.56  |
| Tata Mutual Fund- Tata Equity P/E Fund           | 9.74  |
| <b>Government</b>                                | ?     |
| Department of Investment                         | 0.15  |
| <b>Public</b>                                    | ?     |
| Nps Trust A/C Sbi Pension Fund Scheme - Atal Pen | 9.5   |
| Icici Prudential Life Insurance Company Limited  | 4.1   |

### PART C

#### ANSWER ALL THE QUESTIONS

(2 X 15 = 30M)

16. Infosys Limited (Infosys), formerly Infosys Technologies Limited, provides business consulting, technology, engineering and outsourcing services. Its end-to-end business solutions include consulting and systems integration comprising consulting, enterprise solutions, systems integration and advanced technologies; business information technology (IT) services consisting application development and maintenance, independent validation services, infrastructure management, engineering services comprising product engineering and life cycle solutions and business process management; products, business platforms and solutions, including Finacle, its banking product, which offers solutions to address core banking, mobile banking and e-banking needs of retail, corporate and universal banks globally, and areas, such as cloud computing, enterprise mobility and sustainability. On January 4, 2012, Infosys BPO Limited acquired Portland Group Pty Ltd. In October 2012, it acquired Lodestone Holding AG. The company also in the business segment of Financial Services, Energy & utilities, Life Sciences and Healthcare, Consumer packaged goods and Logistics. Solve the volume weighted average price. (CO3) [Application]

| Infosys    |       |       |       |       |           |
|------------|-------|-------|-------|-------|-----------|
| Date       | Open  | High  | Low   | Close | Volume    |
| 01-06-2022 | 18.92 | 19.64 | 17.52 | 18.51 | 194635600 |
| 01-07-2022 | 18.6  | 19.6  | 17.63 | 19.49 | 200617500 |
| 01-08-2022 | 19.36 | 20.6  | 18.27 | 18.3  | 149208000 |
| 01-09-2022 | 18.33 | 19.41 | 16.39 | 16.97 | 255732500 |
| 01-10-2022 | 16.87 | 18.88 | 16.82 | 18.73 | 214744300 |
| 01-11-2022 | 19.19 | 20.36 | 18.08 | 20.35 | 129757200 |
| 01-12-2022 | 20.4  | 20.57 | 17.69 | 18.01 | 160968400 |
| 01-01-2023 | 18.18 | 19.11 | 17.47 | 18.8  | 159889400 |
| 01-02-2023 | 18.88 | 19.59 | 17.93 | 17.94 | 145685300 |
| 01-03-2023 | 18.09 | 18.34 | 16.59 | 17.44 | 202779500 |
| 01-04-2023 | 17.21 | 17.8  | 14.71 | 15.54 | 274439400 |
| 01-05-2023 | 15.5  | 15.94 | 14.98 | 15.87 | 204769700 |
| 26-05-2023 | 15.81 | 15.94 | 15.79 | 15.87 | 6317190   |

17. MRF Limited is an India-based company engaged in manufacturing, distribution and sale of tyres for various kinds of vehicles. The Company is primarily engaged in the manufacture of rubber products, such as tyres, tubes, flaps, tread rubber and conveyor belt. The Company has diverse business interests which also include pretreads, paint and coats and toys. The Company manufactures tyres for passenger cars, two wheelers, trucks and services, tubes and flaps. The Company's new products launches include MRF Wanderer-Sport and MRF S3P4. MRF Wanderer-Sport is asymmetric tread pattern SUV tyre for the soft-roaders. MRF S3P4 is a mileage radial for drive axle fitment. The Company's subsidiary companies include MRF Lanka Pvt. Ltd. MRF International Ltd., and MRF Corp Limited. MRF Corp Limited manufactures specialty coatings for a range of application. Identify the YoY sales growth, operating profit, OPM%, PBT, and PAT for March-2023?.

MRF Quarterly Result March-2023

|                   | March 2022 | March 2023 |
|-------------------|------------|------------|
| Sales             | 5305       | 5842       |
| YOY sales growth% | 10.14%     | ?          |
| Expenses          | 4765       | 4988       |
| Operating Profit  | 540        | ?          |
| OPM%              | 10%        | ?          |
| Other Income      | 66         | 70         |
| Interest          | 67         | 92         |
| Depreciation      | 311        | 330        |
| Profit Before Tax | 228        | ?          |
| Tax %             | 28%        | 32%        |
| Net Profit(PAT)   | 165        | ?          |

(CO4) [Application]