Department of MBA
MiD Examination Question Bank (R22 Regulation)

Academic Year: 2024-25 I-year Semester: I
Subject Name: RMSA **(22MB104PC)**
Faculty Name: Dr. MOHAMMED IRFAN& Dr. B. VASANTHA LAKSHMI
PART-A

MID QUESTION'S					
Q.No	**Questions**	**Marks**	**BL**	**CO**	**Unit No**
1	Define research and explain its significance in business.	**2M**	**L1**	**CO1**	**UNIT-I**
2	What is the meaning of "business research"?	**2M**	**L1**	**CO1**	**UNIT-I**
3	List and briefly describe any two types of research.	**2M**	**L1**	**CO1**	**UNIT-I**
4	What is the role of conceptualization in the research process?	**2M**	**L2**	**CO1**	**UNIT-I**
5	Explain the term "variable" with an example.	**2M**	**L2**	**CO1**	**UNIT-I**
6	Why is ethics important in business research?	**2M**	**L2**	**CO1**	**UNIT-I**
7	Define a research problem and explain its importance in research design.	**2M**	**L1**	**CO2**	**UNIT-II**
8	What is the purpose of research design?	**2M**	**L1**	**CO2**	**UNIT-II**
9	List any two characteristics of a good research design.	**2M**	**L1**	**CO2**	**UNIT-II**
10	Differentiate between cross-sectional and longitudinal studies.	**2M**	**L2**	**CO2**	**UNIT-II**
11	What are the two main types of data? Give an example for each.	**2M**	**L2**	**CO2**	**UNIT-II**
12	Explain the concept of measurement in research with an example.	**2M**	**L2**	**CO2**	**UNIT-II**
13	Define univariate, bivariate, and multivariate data.	**2M**	**L1**	**CO3**	**UNIT-III**
14	What is the purpose of tabulating data in research?	**2M**	**L1**	**CO3**	**UNIT-III**
15	What are the different types of central tendency measures?	**2M**	**L1**	**CO3**	**UNIT-III**
MID-II Questions					
16	Explain the difference between one-dimensional and two-dimensional diagrams with examples.	**2M**	**L2**	**CO3**	**UNIT-III**
17	What is the significance of a t-distribution in small sample tests?	**2M**	**L2**	**CO3**	**UNIT-III**
18	State the conditions under which a paired t-test is used.	**2M**	**L2**	**CO3**	**UNIT-III**
19	Define Analysis of Variance (ANOVA).	**2M**	**L1**	**CO4**	**UNIT-IV**
20	What is the purpose of the Chi-Square test for independence?	**2M**	**L1**	**CO4**	**UNIT-IV**
21	State the limits of the coefficient of correlation.	**2M**	**L1**	**CO4**	**UNIT-IV**
22	Explain the difference between one-way and two-way ANOVA.	**2M**	**L2**	**CO4**	**UNIT-IV**
23	What is the significance of Karl Pearson's coefficient of correlation?	**2M**	**L2**	**CO4**	**UNIT-IV**
24	Define multiple regression analysis and state its applications.	**2M**	**L2**	**CO4**	**UNIT-IV**
25	Define time series and list its main components.	**2M**	**L1**	**CO5**	**UNIT-V**

26	What are index numbers, and why are they important?	**2M**	**L1**	**CO5**	**UNIT-V**
27	What is the purpose of trend analysis in time series?	**2M**	**L1**	**CO5**	**UNIT-V**
28	Explain the difference between additive and multiplicative models in time series analysis.	**2M**	**L2**	**CO5**	**UNIT-V**
29	What is a consumer price index, and how is it used in economic analysis?	**2M**	**L2**	**CO5**	**UNIT-V**
30	Why is proper referencing important in research reports?	**2M**	**L2**	**CO5**	**UNIT-V**

PART-B

1	List the key steps in the research process and briefly describe their importance.	**4M**	**L1**	**CO1**	**UNIT-I**
2	Differentiate between exploratory and descriptive research with examples.	**4M**	**L2**	**CO1**	**UNIT-I**
3	Explain the types of variables used in research with suitable examples.	**4M**	**L2**	**CO1**	**UNIT-I**
4	What is the scope of business research in decision-making?	**4M**	**L2**	**CO1**	**UNIT-I**
5	Write in detail ethics in business Research?	**4M**	**L2**	**CO1**	**UNIT-I**
6	Explain role of business research in detail?	**4M**	**L2**	**CO1**	**UNIT-I**
7	Analyse how improper measurement of variables can impact research results.	**8M**	**L3**	**CO1**	**UNIT-I**
8	Discuss the ethical principles that should guide a researcher in conducting business research.	**8M**	**L3**	**CO1**	**UNIT-I**
9	Discuss in detail the role of research in solving real-world business problems with examples.	**8M**	**L2**	**CO1**	**UNIT-I**
10	Evaluate the importance of identifying and measuring variables accurately in business research. Provide examples to support your argument.	**4M**	**L3**	**CO2**	**UNIT-II**
11	Analyse a case study or scenario where unethical practices in business research led to significant consequences. Suggest ways to prevent such issues.	**4M**	**L4**	**CO2**	**UNIT-II**
12	Discuss in detail the steps involved in defining a research problem and their significance in the research process.	**4M**	**L2**	**CO2**	**UNIT-II**
13	Evaluate the effectiveness of various data collection tools and methods in addressing research objectives. Provide real-world examples.	**4M**	**L3**	**CO2**	**UNIT-II**
14	Analyse a case study or example of how a poorly designed research study led to misleading conclusions. Suggest measures to ensure a good research design.	**4M**	**L4**	**CO2**	**UNIT-II**
15	Explain characteristic of Good Research Design?	**4M**	**L2**	**CO2**	**UNIT-II**
16	Discuss in detail the steps involved in defining a research problem and their significance in the research process.	**8M**	**L2**	**CO2**	**UNIT-II**
17	Evaluate the effectiveness of various data collection tools and methods in addressing research objectives. Provide real-world examples.	**8M**	**L3**	**CO2**	**UNIT-II**

<table>
<tr><td>18</td><td>Analyse a case study or example of how a poorly designed research study led to misleading conclusions. Suggest measures to ensure a good research design.</td><td>8M</td><td>L4</td><td>CO2</td><td>UNIT-II</td></tr>
<tr><td>19</td><td>Explain the characteristics and uses of a frequency distribution table in data tabulation.</td><td>4M</td><td>L1</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>20</td><td>Discuss the differences between bar graphs and pie charts with examples of their applications.</td><td>4M</td><td>L2</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>21</td><td>Discuss the applications of three-dimensional diagrams in representing multivariate data.</td><td>4M</td><td>L3</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>22</td><td>Explain how measures of dispersion (such as variance and standard deviation) complement measures of central tendency.</td><td>4M</td><td>L2</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>23</td><td>A number of people invested $1000 each in the Gomer Family of Mutual Funds. The frequency table below shows the current values of those investments. Compute the mean, median and mode.
<table>
<tr><td>Value</td><td>0</td><td>50</td><td>75</td><td>100</td><td>150</td></tr>
<tr><td>Frequency</td><td>48</td><td>42</td><td>31</td><td>28</td><td>22</td></tr>
</table></td><td>4M</td><td>L3</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td colspan="6">MID-II Questions</td></tr>
<tr><td>24</td><td>Compare the t-test for one mean and the t-test for two means. Give examples where each would be applicable.</td><td>4M</td><td>L3</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>25</td><td>Analyse the importance of hypothesis formulation in statistical testing with a suitable example</td><td>4M</td><td>L3</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>26</td><td>Two different types of drugs A and B were tried on certain patients for increasing weight, 5 persons were given drug A and 7 persons were given drug B. The increases in weight (in Pounds) is given below
<table>
<tr><td>Drug A</td><td>8</td><td>12</td><td>13</td><td>9</td><td>3</td><td></td><td></td></tr>
<tr><td>Drug B</td><td>10</td><td>8</td><td>12</td><td>15</td><td>6</td><td>8</td><td>11</td></tr>
</table></td><td>4M</td><td>L3</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>27</td><td>A drug is given to 10 patients and the increments in their blood pressure were recorded to be 3,6,-2,-1,4,6,0,0,0,2. Is it reasonable to believe that the drug has no effect on change of blood pressure?</td><td>4M</td><td>L2</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>28</td><td>A random sample of 10 boys had the following IQs: 70,120,110,101,88,83,95,98,107,100. Do these data support the assumption of a population mean IQ of 100? Find a reasonable range in which most of the mean IQ values of sample of 10 boys lie.</td><td>4M</td><td>L3</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>29</td><td>The annual salaries of a group of employees are given in the following table. Calculate Standard Deviation.
<table>
<tr><td>Salaries (in Rs. 000)</td><td>45</td><td>50</td><td>55</td><td>60</td><td>65</td><td>70</td><td>75</td><td>80</td></tr>
<tr><td>No. of Students</td><td>3</td><td>5</td><td>8</td><td>7</td><td>9</td><td>7</td><td>4</td><td>7</td></tr>
</table></td><td>4M</td><td>L2</td><td>CO3</td><td>UNIT-III</td></tr>
<tr><td>30</td><td>a. List the assumptions of one-way ANOVA and explain why they are important.</td><td>4M</td><td>L1</td><td>CO4</td><td>UNIT-IV</td></tr>
</table>

<table>
<tr><td></td><td>b.Three different methods of teaching statistics are used on three groups of students. Random samples of size 5 are taken from each group and the results are shown below.
<table>
<tr><td>Group A</td><td>Group B</td><td>Group C</td></tr>
<tr><td>7</td><td>3</td><td>4</td></tr>
<tr><td>6</td><td>6</td><td>7</td></tr>
<tr><td>7</td><td>5</td><td>7</td></tr>
<tr><td>7</td><td>4</td><td>4</td></tr>
<tr><td>8</td><td>7</td><td>8</td></tr>
</table></td><td></td><td></td><td></td><td></td></tr>
<tr><td>31</td><td>Explain how the Chi-Square test is used for testing the goodness of fit with an example.</td><td>4M</td><td>L2</td><td>CO4</td><td>UNIT-IV</td></tr>
<tr><td>32</td><td>Differentiate between linear regression and multiple regression analysis with examples.</td><td>4M</td><td>L2</td><td>CO4</td><td>UNIT-IV</td></tr>
<tr><td>33</td><td>a.Apply Spearman’s rank correlation to analyze the relationship between two variables with ranked data.
b.Calculate Karl Person’s Coefficient of Correlation from the following data.
<table>
<tr><td>Students Roll No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr>
<tr><td>Marks in Accounts</td><td>48</td><td>35</td><td>17</td><td>23</td><td>47</td></tr>
<tr><td>Marks in Statistics</td><td>45</td><td>20</td><td>40</td><td>25</td><td>45</td></tr>
</table></td><td>4M</td><td>L3</td><td>CO4</td><td>UNIT-IV</td></tr>
<tr><td>34</td><td>Discuss the advantages and limitations of using Karl Pearson’s coefficient of correlation in data analysis.</td><td>4M</td><td>L3</td><td>CO4</td><td>UNIT-IV</td></tr>
<tr><td>35</td><td>a.Analyse how interaction effects are tested in two-way ANOVA and explain their importance.
b.The following data pertain to the number of units of product manufactured per day from four different brands of machines.
<table>
<tr><td colspan="4">Machine Brands</td></tr>
<tr><td>A</td><td>B</td><td>C</td><td>D</td></tr>
<tr><td>46</td><td>40</td><td>49</td><td>38</td></tr>
<tr><td>48</td><td>42</td><td>54</td><td>45</td></tr>
<tr><td>36</td><td>38</td><td>46</td><td>34</td></tr>
<tr><td>35</td><td>40</td><td>48</td><td>35</td></tr>
<tr><td>40</td><td>44</td><td>51</td><td>41</td></tr>
</table>
Test whether the mean productivity is the same for the four brands of machine type.</td><td>4M</td><td>L3</td><td>CO4</td><td>UNIT-IV</td></tr>
<tr><td>36</td><td>Describe the steps in conducting a two-way ANOVA test (with interaction) and discuss its applications in research with an example.</td><td>8M</td><td>L2</td><td>CO4</td><td>UNIT-IV</td></tr>
<tr><td>37</td><td>a. Evaluate the importance of Chi-Square tests in determining the independence of attributes in real-world scenarios. Provide a case study or example.
b. Five coins are tossed 3200 times and the number of heads appearing each time is noted</td><td>8M</td><td>L3</td><td>CO4</td><td>UNIT-IV</td></tr>
</table>

<table>
<tr><td></td><td>as the end, the following results were obtained.
<table><tr><td>No. of Heads</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>Frequency</td><td>80</td><td>570</td><td>1100</td><td>900</td><td>500</td><td>50</td></tr></table>Test the goodness of fit to determine whether the coins are unbiased. Use 5% LOS.</td><td></td><td></td><td></td><td></td></tr>
<tr><td>38</td><td>Analyze a business case where regression analysis (both linear and multiple) was used to make predictions. Discuss the steps, interpretation, and implications of the results.</td><td>8M</td><td>L4</td><td>CO4</td><td>UNIT-IV</td></tr>
<tr><td>39</td><td>a.List and explain the steps involved in constructing an unweighted price index.
b.Construct Laspayre and Paasche Index Number for the following data:
<table><tr><td>Commodity</td><td>2020</td><td>2020</td><td>2021``</td><td>2021</td></tr><tr><td></td><td>Price</td><td>Quantity</td><td>Price</td><td>Quantity</td></tr><tr><td>P</td><td>3</td><td>10</td><td>5</td><td>7</td></tr><tr><td>Q</td><td>6</td><td>12</td><td>7</td><td>6</td></tr><tr><td>R</td><td>5</td><td>16</td><td>6</td><td>10</td></tr><tr><td>S</td><td>3</td><td>20</td><td>3</td><td>12</td></tr></table></td><td>4M</td><td>L2</td><td>CO5</td><td>UNIT-V</td></tr>
<tr><td>40</td><td>Differentiate between the least square method and moving averages for trend analysis.</td><td>4M</td><td>L2</td><td>CO5</td><td>UNIT-V</td></tr>
<tr><td>41</td><td>Explain the characteristics of a good research report.</td><td>4M</td><td>L3</td><td>CO5</td><td>UNIT-V</td></tr>
<tr><td>42</td><td>a.Analyze the significance of weighted price indexes in comparing price levels over time
b.Fit a straight line trend to the following time series data.
<table><tr><td>Year</td><td>2015</td><td>2016</td><td>2017</td><td>2018</td><td>2019</td></tr><tr><td>Sale of Sugar in Thousands Kg.</td><td>80</td><td>90</td><td>92</td><td>83</td><td>94</td></tr></table></td><td>4M</td><td>L3</td><td>CO5</td><td>UNIT-V</td></tr>
<tr><td>43</td><td>Describe the process of preparing a structured research report with an example.</td><td>4M</td><td>L3</td><td>CO5</td><td>UNIT-V</td></tr>
<tr><td>44</td><td>Discuss how the selection of an appropriate referencing style impacts the credibility of a research report.</td><td>4M</td><td>L3</td><td>CO5</td><td>UNIT-V</td></tr>
<tr><td>45</td><td>a.Discuss the methods of trend analysis in time series and provide a practical example of their application in business.
b.Construct the consumer price index number for 2010 the basis of 2009 from the following data using.
i. Aggregate Expenditure Method
ii. Family Budget Method
<table><tr><td>Items</td><td>Qty in 2009</td><td>Price in 2009</td><td>Price in 2010</td></tr><tr><td>Food</td><td>100</td><td>12</td><td>8</td></tr><tr><td>Rent</td><td>30</td><td>7</td><td>6</td></tr><tr><td>Clothing</td><td>15</td><td>5</td><td>5</td></tr><tr><td>Fuels</td><td>20</td><td>52</td><td>48</td></tr></table></td><td>8M</td><td>L2</td><td>CO5</td><td>UNIT-V</td></tr>
</table>

	Mis.	80	16	15				
46	Evaluate the adequacy of different types of index numbers (unweighted and weighted) in analyzing market trends. Provide real-world examples.				**8M**	**L3**	**CO5**	**UNIT-V**
47	Analyze a case study where poor report preparation and presentation led to incorrect business decisions. Suggest ways to improve the reporting process, including effective documentation and citation practices.				**8M**	**L4**	**CO5**	**UNIT-V**