Total number of printed pages–2

2 SEM MBA (NCBCS) RMB 700

2024

(June)

BUSINESS ADMINISTRATION

Paper : 20700

(Research Methods in Business)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

MBA 2nd SEM

PART–A

Answer ***any four*** of the following questions : 10×4=40

1. Provide a diagrammatic representation of the structure of Research. Explain the steps involved briefly. 2+8=10

2. Differentiate between Primary and secondary data sources. Explain the methods of primary data collection in brief. 5+5=10

Contd.

3. Distinguish between Descriptive a
Exploratory Research Design a
appropriate examples.

4. Elaborate on Stratified Random Samplin
Support answer with appropriate exampl
6+4=

5. What are the basic scales of measureme
in research ? What are the characteristi
of a good questionnaire design ? 4+6=

6. Mention the steps involved in testing
Hypothesis. Distinguish between null an
alternate hypothesis with appropria
examples. 6+4=

PART–B

Write short notes on ***any four*** of the followin
5×4=

1. Literature review
2. Errors in sampling for research in soc
sciences.
3. Chi-square test for hypothesis testing
4. ANOVA
5. Qualitative research
6. Structure of research report

Total number of printed pages–3

2 SEM MBA (NCBCS) QT 60

2024

(June)

BUSINESS ADMINISTRATION

Paper : 20600

(Quantitative Techniques)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer ***any six*** of the following questio
5×6

(a) Solve the following game :

		Firm *B*			
		*B*1	*B*2	*B*3	*B*4
Firm *A*	*A*1	35	65	25	5
	*A*2	30	20	15	0
	*A*3	40	50	0	10
	*A*4	55	60	10	15

(b) In an intelligence test administered to 1000 students, the performance of the examinees was assumed to be normal. The average score was found to be 42 and standard deviation of 24. Find the number of students lying between 30 and 54. Given that $P(z = 0{\cdot}5) = 0{\cdot}1915$.

(c) What are the uses of game theory in business ?

(d) Find the regression equation of Y on X from the following data.

X	2	3	5	7	8
Y	4	8	2	5	6

(e) Calculate the coefficient of correlation of ranks obtained by ten students of class in Hindi and English.

Hindi	1	2	3	4	5	6	7	8	9	10
English	3	8	1	7	10	2	9	4	6	5

(f) Differentiate functions and relations.

(g) Using Cramer's rule, solve the following equations :

$$x + 2y - 3z = -4$$
$$2x + 3y + 2z = 2$$
$$3x - 3y - 4z = 11$$

(h) Explain the advantages of mathematical modelling.

2. Answer **any three** of the following : 10×3=30

(a) Describe the basic steps in operations research.

(b) State and explain the Baye's theorem of probability.

(c) What are the various components of a time series ?

(d) What are the various principles of sampling ?

(e) Explain the central limit theorem in Sampling theory.

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