312599

P-3(FBMS)

FOUNDATION COURSE EXAMINATION DECEMBER 2024

SUBJECT: FUNDAMENTALS OF BUSINESS MATHEMATICS AND STATISTICS

(Notations and symbols used are as usual)

Time Allowed: 1 hour

Full Marks: 100 (2×50)

SECTION I: BUSINESS MATHEMATICS (40 marks)

1. The two numbers are in the ratio 2:3. If 4 is subtracted from each, they are in the ratio 3:5. The numbers are

- (A) (16, 24)
- (B) (4, 6)
- (C) (10, 15)
- (D) (12, 16)

2. How much pure milk (in ml) must be added to 300 ml of a solution containing 15% of milk to change the concentration of milk in that mixture to 50%?

- (A) 160
- (B) 190
- (C) 205
- (D) 210

3. If x varies inversely with y, then which of the following is correct?

(A)	$\frac{x_1}{y_1} = \frac{x_2}{y_2}$	
(B)	$\frac{x_1}{x_2} = \frac{y_1}{y_2}$	
(C) (D)	$\frac{x_1}{x_2} = \frac{y_2}{y_1}$ $x_1 x_2 = y_1 y_2$	

4. A given sum of money gives \gtrless 50 as the simple interest for one year and \gtrless 102 as compound interest for two years. Determine the rate of interest.

(A) 8%

- (B) 12%
- (C) 4%
- (D) 12.5%

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5. Find the present value of an annuity of ₹ 1000 received annually for 4 years at a discount ratio of 5%.

(A) ₹ 3546
(B) ₹ 4504
(C) ₹ 2450
(D) ₹ 3200

6. If $(\sqrt{3})^x = 81$, then the value of *a* for $ax^2 - 10x + 16 = 0$ is

- (A) –1
- **(B)** 1
- (C) –2
- (D) 2

7. Ajay walks 4 kmph and 4 hours after his start, Badal cycles after him at 10 kmph. How far from the start Badal catches up with Ajay?

- (A) 16.67 km(B) 18.67 km
- (C) 21.25 km
- (D) 26.67 km

8. The 7th term of an AP, $-20, -16, -12, \ldots$

(A) – 44

is

(B) – 4

(C) 4

(D) 0

Please Turn Over

	<i>P-3(FBMS)</i> (2) Syllabus 2022
	9. The first term and common ratio of a	14. In how many ways 6 books can be equally distributed among 3 boys?
4	GP series are 4 and $\frac{1}{2}$ respectively. The fifth	(A) 30
		(B) 15
	term is	(C) 90 (D) 36
	$(A) \frac{1}{8}$	
		- 15. If α and β be the two roots of the
	(B) $\frac{1}{4}$	equation $x^2 - 5x + 6 = 0$ and $\alpha > \beta$, then the equation with roots $(\alpha\beta + \alpha + \beta)$ and
		equation with roots (7 77
	(C) 64	$(\alpha\beta-\alpha-\beta)$ is
	(D) $\frac{1}{64}$	(A) $x^2 - 12x + 11 = 0$
		(B) $x^2 - 3x + 6 = 0$
	10. If A and B be two sets such that $(A = B) = 110$	(C) $x^2 - 12x - 12 = 0$
	$n(A) = 70, n(B) = 60 \text{ and } n(A \cup B) = 110,$	(D) $x^2 + 12x - 11 = 0$
	then n (A \cap B) is	16. If α and β be the roots of the quadratic
	(A) 240	equation $x^2 - 2x - 3 = 0$, then the value of
	(B) 50	$\alpha^3 + \beta^3$ is
	(C) 40	(A) 24
	(D) 20	(B) 22
	11. If A and B be any two sets, then	(C) -20
E C	$(A \cap B) \cup (A \cap B^{\circ})$ is	(D) 26
	(A) A	$1 \qquad dy$
	(B) B	17. If $y = \frac{1}{3-2x}$, find $\frac{dy}{dx}$.
	(C) Universal set	2
	(D) Null set	(A) $-\frac{2}{(3-2x)^2}$
	12. If $\log_a b + \log_a c = 0$, then	1
	(A) $b = -c$	(B) $\frac{1}{(3-2x)^3}$
	$(\mathbf{A}) b = -c$	2
	(B) $b = \frac{1}{2}$	(C) $\frac{2}{(3-2x)^2}$
	(C) $b=c$	
	(C) b = c	(D) $-\frac{2}{(3-2x)}$
	(D) $b = -\frac{1}{c}$	18. The cost of producing x units of a
	, ? 	product is $\gtrless 300x - 10x^2 + \frac{1}{3}x^3$. Find the
	13. If ${}^{n}P_{r} = 720 {}^{n}C_{r}$, then the value of r is	marginal cost (in $\overline{\epsilon}$) for 12 units output.
	(A) 5	$\begin{array}{c} \text{marginal cost (m c) for 12 arrive 1} \\ \text{(A) 204} \end{array}$
· · · · ·	(B) 6	(B) 240
	(C) 4	(C) 402
	(D) 8	(D) 420
2	and a second	

P-3(FBMS)

Syllabus 2022	(3)
19. The condition required for maximization of a function $f(x)$ is	20. If $\left(\frac{a}{b}\right)^{x-1} = \left(\frac{b}{a}\right)^{x-3}$, then the value of x is
(A) $f'(x) = 0, f''(x) = 0$	
(B) $f'(x) = 0, f''(x) < 0$	(A) $\frac{1}{2}$
(C) $f'(x) = 0, f''(x) > 0$	(B) 1
(D) $f'(x) < 0, f''(x) < 0$	
	(C) $\frac{7}{2}$
	(D) $\frac{2}{2}$
SECTION II · FUNDAMENTALS	OF BUSINESS STATISTICS (60 marks)
	and the second
21. In Pie diagram, 1% is equivalent to	25. If the mean of 7, $(n + 3)$, 10, $(n - 3)$ and
(A) 3°	(n-5) is 15, what will be the value of n ?
(B) 4°	(A) 19 (B) 20
(C) 3·6°	(C) 16
(D) 2·6°	(D) 21
22. Data collected on religion from th	e
census reports are	26. The median of the numbers 21, 12, 49,
(A) Primary data	37, 88, 46, 74, 63, 55 is
(B) Secondary data	(A) 49
(C) Attribute data	(B) 88
	(C) 12
(D) Both Primary and Secondary dat	a (D) 74
22 A solution of the one toke only value i	
23. A variable which can take any value i a specified interval on a real line is called	
	27. The quartile deviation of the numbers
(A) continuous variable(B) discrete variable	18, 12, 22, 15, 30, 5, 44 is
	(A) 12 (B) 0
(C) non-measurable variable(D) attribute	(B) 9 (C) 7
(D) autouc	(D) 5
24. The frequency density of a class an	
total frequency of a group frequence	\mathbf{v}
distribution with equal class width are 17 ar	
204 respectively. The width of a class is	20. Urven $n = 10$, $\sum_{n=120}^{n}$, $\sum_{n=120}^{n}$.
(A) 8	The standard deviation is
(B) 10	(A) 8 (P) 6
(C) 9.5	(B) 6 (C) 5
(D) 12	(D) 7
(D) 12	

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29. If the means of sample 1 and sample 2 be 20 and 50 respectively and the mean of the combined sample be 30, find the percentage of observations in sample 1.

- (A) 66.67%
- (B) 33.33%
- (C) 50%
- (D) Can not be determined

30. For a frequency distribution, C.V. = 4% and S.D. = 6 and coefficient of skewness = 1.5, the mode of the distribution is

(A)	132		. (
(B)	147	see inght od	(
(C)	153		(
(D)	141		(

31. If 2y - 6x = 6 and mode of x is 21, then what is the mode of y?

- (A) 61(B) 66
- (C) 51
- (\mathbf{D})
- (D) 58

32. If cov(x, y) = 12, $b_{yx} = \frac{4}{3}$, then var(x) is

- (A) 9
- **(B)** 16
- (C) 3
- (D) 4

33. The value of rank correlation lies between

- (A) 0 and 1
- (B) -1 and 1
- (C) -1 and 0
- (D) it will be equal to 1

34. Find the correlation co-efficient of the following pair of variables (x, y).

35. If $\sum D^2 = 33$ and n = 10, find the rank correlation coefficient.

- (A) 0·75
- (B) 0.6
- (C) 0.5
- (D)_0.8

36. Which one of the following statements is true?

- (A) Values of both bi-variate regression coefficients can be more than one.
- (B) If values of bi-variate regression coefficients are negative, then correlation coefficient is positive.
- (C) If values of bi-variate regression coefficients are positive, then correlation coefficient is positive.
- (D) Values of bi-variate regression coefficients can be of opposite sign.

37. If two regression lines of two variables x and y intersect at a point (4, 5) and $b_{yx} = 2.5$, find the value of y when x = 6.

- (A) 25
- **(B)** 15
- (C) 10
- (D) 20

(5)

38. If the variables x and y are independent, the correlation coefficient between them is

- (A) 1
- **(B)** 0
- (C) –1
- (D) ±1

39. If A, B, C are equally likely, mutually exclusive and exhaustive events, then P(A) equals to

(A) 1

(B) 0 (C) $\frac{1}{2}$ (D) $\frac{1}{3}$

40. The probability that a candidate passes in Accountancy and Economics are 0.5 and 0.6 respectively. What is the probability that the candidate passes only one of the two subjects?

- (A) 0.8
- (B) 0.4
- (C) 0.5
- (D) 0.75

41. The probability of getting 52 Sundays in a leap year is



42. If an unbiased coin is tossed 3 times, find the probability of getting at least 2 heads.



43. A box contains 5 red and 3 white balls. 2 balls are drawn at random simultaneously from the box. Find the probability of getting two same colour balls.

(A)
$$\frac{13}{28}$$

(B) $\frac{5}{14}$
(C) $\frac{3}{28}$
(D) $\frac{15}{28}$

44. If $P(A) = \frac{2}{3}$, $P(B) = \frac{1}{2}$ and $P(B|A) = \frac{4}{9}$, find P(A|B). (A) $\frac{1}{2}$

(R)
$$\frac{3}{4}$$

(B) $\frac{3}{4}$
(C) $\frac{16}{27}$
(D) $\frac{4}{27}$

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45. An unbiased coin is tossed thrice. If the

first toss gets head, what is the probability of getting only one more head?

(A) 0.8
(B) 0.5
(C) 0.25
(D) 0.4

(6)

Syllabus 2022

48. Year: 2020 2021 2022 2023 2024 Sales (₹,000): 5 4.5 6 5.5 5 Find the 3-year moving average for the year 2023.

(A) 5.33
(B) 5.5
(C) 5.16
(D) 5

46. Given $\sum p_0 q_0 = 196$, $\sum p_0 q_1 = 324$, $\sum p_1 q_0 = 256$, $\sum p_1 q_1 = 441$ (p_0, q_0 : base price and quantity; p_1, q_1 : current price and quantity). Fisher's price index number is

- (A) 132·8
- (B) 131·4
- (C) 132·2
- (D) 133·3

 $1 m \odot n$

49. Net monthly income of an employee was $\overline{\mathbf{x}}$ 10,000 per month in 2010. The consumer price index number was 80 in 2010 and became 240 in 2023. Calculate the additional D.A (in $\overline{\mathbf{x}}$) to be paid to the employee if he has to be compensated.

- (A) 15,000
 (B) 18,000
 (C) 20,000
- (D) 22,000

47. Delay in the production of a factory due to sudden break down of machine is

- (A) secular trend
- (B) cyclical variation
- (C) seasonal variation
- (D) irregular variation

50. The price of a commodity in the years 2010 and 2020 were $\gtrless 40$ and $\gtrless 50$ respectively. Find the price relative taking 2010 as base year.

(A)	125		
(B)	115	• .	
(C)	140		
(D)	80		

P-4(FBEM)

Full Marks: 100 (2×50)

SUBJECT: FUNDAMENTALS OF BUSINESS ECONOMICS AND MANAGEMENT

Time Allowed: 1 hour

SECTION A: FUNDAMENTALS OF BUSINESS ECONOMICS (70 marks)

- 51. _______ is the father of Economics.
 - (A) Adam Smith
 - (B) Alfred Marshall
 - (C) Lionel Robbins
 - (D) J. R. Hicks
- 52. According to Economics, means are
 - (A) endless
 - (B) abundant
 - (C) limited
 - (D) unlimited

53. A piece of wood becomes a table. It is an example for utility.

- (A) Time
- (B) Place
- (C) Possession
- (D) Form

54. _____ occurs when the price that consumers pay for a product or service is less than the price they are willing to pay.

- (A) Consumer Surplus
- (B) Total Utility
- (C) Marginal Utility
- (D) Market Price

55. Disguised unemployment is primarily traced in the ______ and unorganized sectors of the economy.

- (A) Agricultural sector
- (B) Industrial sector
- (C) Information Technology sector
- (D) Service sector

56. _____ is the second important factor of production.

(A) Land

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- (B) Labour
- (C) Capital
- (D) Organisation

57. In microeconomic theory, the ______ cost of a choice is the value of the best alternative foregone where, given limited resources, a choice needs to be made between several mutually exclusive alternatives.

- (A) opportunity
- (B) explicit
- (C) implicit
- (D) social

58. Which one of the following is not a factor in the market supply of a product?

- (A) Cost of production
- (B) Number of buyers
- (C) Market price of the product
- (D) Price of related products

59. Which of these will have highly inelastic supply?

- (A) Perishable goods
- (B) Consumer durable goods
- (C) Items of elite class consumption
- (D) All of the above

60. In the short-run, price is governed by

- (A) cost of production
 - (B) demand and supply forces
 - (C) marginal utility
 - (D) consumer surplus

P-4(FBEM)

Syllabus 2022

61. A/an ______ is a market structure with a single seller or producer that assumes a dominant position in an industry or a sector.

- (A) Oligopoly
- (B) Duopoly
- (C) Monopolistic Competition
- (D) Monopoly

62. A firm can achieve equilibrium when its

(A) MC = MR(B) MC = AC(C) MR = AR(D) MR = AC

into _		types.		
X j	(A) 2	en en la companya de		
	(B) 3			
	(C) 4			
. •	(D) 5			e e l' La contra

64. In a competitive market, _______ is the price-maker.

(A) firm

- (B) industry
- (C) consumer
- (D) trade association

65. Skimming pricing is a pricing strategy that sets new product prices _____

- (A) high
- (B) neither high nor low
- (C) low
- (D) medium

66. ______ competition is a type of market structure where many firms are present in an industry and they produce similar but differentiated products.

(A) Pure

- (B) Monopolistic
- (C) Perfect
- (D) Oligopolistic

67. _______ in 1926 concluded that, to fully understand microeconomics, it is necessary to leave aside perfect competition and move towards the opposite direction.

- (A) Piero Sraffa
- (B) Adam Smith
- (C) Peter Drucker
- (D) Joan Robinson

68. ______ occurs when a leading firm in a given industry is able to exert enough market influence in the said industry that it can effectively determine the price of goods or services for the entire market.

- (A) Price leadership
- (B) Differential pricing
- (C) Policy pricing
- (D) Skimming pricing

69. A ______ is a form of oligopoly, where only two companies dominate the market.

- (A) Duopoly
- (B) Monopoly
- (C) Monopsony
- (D) All of the above

70. The _______ states that bad money drives good money out of circulation.

- (A) Law of Demand
- (B) Law of Supply
- (C) Gresham's Law
- (D) Law of Self-interest

(8)

71. Money Market deals with credit.

- (A) medium-term
- (B) long-term
- (C) short-term
- (D) None of the above

72. _____ is the instrument of quantitative credit control.

- (A) Open market operations
- (B) Credit rationing
- (C) Moral suasion (D) Licensing

73. Which of the following is the oldest system of money?

- (A) Barter
- (B) Plastic money
- (C) Credit money
- (D) Gold

74. _____is a qualitative credit control instrument used by the Central Bank.

- (A) Bank rate policy
- (B) Rationing of credit
- (C) Open market operations
- (D) CRR

to

75. Manipulation in CRR enables the RBI

- (A) influence the lending ability of the commercial banks
- (B) check unemployment growth
- (C) check poverty
- (D) increase GDP

76. Fiscal Policy in India is formulated by the second second

- (A) RBI
- (B) SEBI
- (C) Finance Ministry
- (D) NABARD

77. EXIM bank is authorised to raise loan from the

- (A) RBI
- (B) Govt. of India
- (C) international market
- (D) trading activities
- 78.

_____is the mechanism for flow of funds from the surplus to the deficit units in the economy.

- (A) Money Market
- (B) Stock Market
- (C) Regulated Market
- (D) Bullion Market

79. Financial markets are classified into Money Market and

- (A) Bullion Market
- (B) Capital Market
- (C) Stock Market
- (D) National Market

environment is within the 80. control of the business.

- (A) Internal
- (B) External
- (C) Micro
- (D) Macro

P-4(FBEM)

P-4(FBEM)	(10) Syllabus
81. Select the internal components	
IIIIIUCIICE Diisiness decisions	which 84. Opportunities and Threats are rela
 (A) Culture (B) Mission (C) Objectives 	for the first of the second
(B) Mission	(A) external environment
(C) Objectives	(B) internal environment
	(C) micro environment
(D) All of the above	(D) None of the above
82. The term "P" in PESTEL stand	ds for
(A) Policy	
(A) Policy	
(B) Political	요즘 가슴 귀엽 감정 같은 것은 것을 가지 않는 것을 하는 것이 같이 했다.
(C) Power	
(D) Project	
83. The term "W" in SWOT analysis stor	tonda Oz -
for	tands 85. Task environment is also known
(A) Work	environment.
(B) Weather	(A) short-term
	(B) macro
(C) Weaknesses	(C) internal
(D) Will power	(D) long-term
SECTION B: FUNDAME	ENTALS OF MANAGEMENT (30 marks)
86. There are	
86. There are major funct	tions 89 involves a system with
of management.	an organization in mili 1 il
	1 wi U Saul Zaul Oll in Which the top moduli
(A) two	lower levels of management
(B) three	iower levels of management participate
	an organization in which the top, middle, a lower levels of management participate decision-making.
(B) three	decision-making. (A) Centralisation of Authority
(B) three(C) four	(A) Centralisation of Authority (B) Delegation of Authority
(B) three(C) four	(A) Centralisation of Authority (B) Delegation of Authority
(B) three(C) four(D) five	 (A) Centralisation of Authority (B) Delegation of Authority (C) Decentralisation of Authority
 (B) three (C) four (D) five 87. The concept of Scientific Managem 	 (A) Centralisation of Authority (B) Delegation of Authority (C) Decentralisation of Authority
 (B) three (C) four (D) five 87. The concept of Scientific Managem has focused mainly on the function function function for the function function function function for the function function for the function function function function for the function function for the function function function function for the function function for the function function for the function function for the function for the function for the function function for the function function for the function for the function function for the function for	(A) Centralisation of Authority (B) Delegation of Authority (C) Decentralisation of Authority (D) Responsibility
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 (B) three (C) four (D) five 87. The concept of Scientific Managem has focused mainly on thefuncti (A) sales 	(A) Centralisation of Authority (B) Delegation of Authority (C) Decentralisation of Authority (D) Responsibility
 (B) three (C) four (D) five 87. The concept of Scientific Managem has focused mainly on the functi (A) sales (B) accounting 	(A) Centralisation of Authority (B) Delegation of Authority (C) Decentralisation of Authority (D) Responsibility
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91. One who receives information in any communication process is known as

- (A) communicator
- (B) sender
- (C) communicatee
- (D) None of the above

involves the selection of 92. language in which the message is to be given.

- (A) Feedback
- (B) Decoding
- (C) Encoding
- (D) Medium

93. The Stewardship Theory states that a steward protects and maximises the shareholders' wealth through the firm's

- (A) performance
- (B) production
- (C) profit
- (D) sales

94. Post-control is also known as

- (A) Feedback control
- (B) Concurrent control
- (C) Pre-control
- (D) Feed-forward control

95. Effective ______ increases the interactions among the managers and the subordinates.

- (A) Centralisation of Authority
- (B) Decentralisation of Authority
- (C) Communication
- (D) Delegation of Authority

P-4(FBEM)

96. date flows from lower-level management to top-level management.

- (A) Authority
- (B) Responsibility
- (C) Centralisation of Authority
- (D) Decentralisation of Authority

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(11)

97. The managerial function of directing the subordinates towards achievement of the organisational goals is known as ____

- (A) Planning
- (B) Organizing
- (C) Leadership
 - (D) Controlling

98. Encouraging someone to a particular course of action is known as _____

- (A) Morale
 - (B) Motivation
- (C) Communication
 - (D) Co-ordination

99. The decision to purchase stationery is a

- ____ decision. (A) policy
- (B) routine
- (C) personal
- (D) non-programmed

100. ______ is an act of choice wherein an executive comes to a conclusion about what must not be done in a given situation.

- (A) Planning
 - (B) Organising
 - (C) Decision-making
 - (D) Controlling