Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Business Mathematics Course Code - BCM402

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1.	Email *
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3.	Enter Full Student Code *
4.	Enter Roll No *
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6.	Enter Course Code *

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8.

Mark only one oval.
Diploma in Pharmacy
Bachelor of Pharmacy
B.TECH.(CSE)
B.TECH.(ECE)
BCA
B.SC.(CS)
B.SC.(BT)
B.SC.(ANCS)
B.SC.(HN)
B.Sc.(MM)
B.A.(MW)
BBA
B.COM
B.A.(JMC)
BBA(HM)
BBA(LLB)
B.OPTOMETRY
B.SC.(MB)
B.SC.(MLT)
B.SC.(MRIT)
B.SC.(PA)
LLB
B.SC(IT)-AI
B.SC.(MSJ)
Bachelor of Physiotherapy
B.SC.(AM)
Dip.CSE
Dip.ECE
<u>DIP.EE</u>
DIPCE

9.

	<u>DIP.ME</u>
	PGDHM
	MBA
	M.SC.(BT)
	M.TECH(CSE)
	LLM
	M.A.(JMC)
	M.A.(ENG)
	M.SC.(MATH)
	M.SC.(MB)
	M.SC.(MSJ)
	M.SC.(AM)
	M.SC.CS)
	M.SC.(ANCS)
	M.SC.(MM)
	B.A.(Eng)
Ar	nswer all the questions. Each question carry one mark.
	1. Two numbers are in the ratio 5:7. If the sum of the numbers is 192, then the greater number is
	Mark only one oval.
	102
	108
	112
	116

10.	2. A sum will be double itself at a simple interest p.a. in 8 years. The simple interest is
	Mark only one oval.
	<u> </u>
	0.12
	0.105
	0.125
11.	3. The 8th term of the series 256, 128, 64 is
	Mark only one oval.
	2
	4
	8
	16
12.	4. The value of 3P3 – 3C3 is
	Mark only one oval.
	0
	1
	5
	<u> </u>

13.	5. Six years before the ratio of the ages of two sisters Mitali and Sonali is 2 : 3. If the present age of Mitali is 30 years, then the present age of Sonali is
	Mark only one oval.
	28 Years
	36 Years
	42 Years
	48 Years
14.	6. The value of logarithm of 8 to the base 2 is
	Mark only one oval.
	O
	<u> </u>
	2
	3
15.	7. Product of the two roots of the quadratic equation $3x2 - 5x + 2 = 0$ is
	Mark only one oval.
	2/3
	2/5
	3/2
	5/3

16.	8. If p varies directly as q and if $q = 2$ then $p = 4$. If $p = 2$, the value of q is
	Mark only one oval.
	1
	1.5
	2
	<u>3</u>
17.	9. The mean proportional between 4 and 16 is
	Mark only one oval.
	8
	8
	<u> </u>
	10
18.	10. The 7th term of the series 16, 8, 4, 2 is
	Mark only one oval.
	1/2
	1/4
	1/8
	1/16

19.	11. The ratio of work done by $(x + 2)$ men in $(x - 2)$ days to that $(x - 1)$ men in $(x + 1)$ days is 4 : 5, the value of x is
	Mark only one oval.
	4
	4
	<u> </u>
	8
20.	12. The simple interest (SI) on Rs.100 at the rate of 5% p.a. for 5 years is
	Mark only one oval.
	Re.1
	Rs.5
	Rs.10
	Rs.25
21.	13. The value of logarithm of 1 to the base 10 is
	Mark only one oval.
	0
	1
	2
	10

22.	14. The mean proportional between 9 and 25 is
	Mark only one oval.
	15
	<u> </u>
	17
	225
23.	15. A person depositsRs. 2,000 at 6% p.a. simple interest for 3 years. The amount he will get back after 3 years is
	Mark only one oval.
	Rs.2300
	Rs.2350
	Rs.2360
	Rs.2400
24.	16. The produce of 3 terms in a G.P is 125. The middle term is
	Mark only one oval.
	4
	<u> </u>
	<u> </u>

25.	17. For a quadratic equation $x^2 - 2x + 1 = 0$, the product of the roots is
	Mark only one oval.
	O
	1
	1
	2
26.	18. In a certain time Rs. 1400 becomes Rs. 1848 at 8% p.a. simple interest. When Rs.2,100 will becomeRs. 2,604 at the same time, the rate of interest is
	Mark only one oval.
	0.1
	0.06
	0.082
	0.070000000000001
27.	19. Which term 128 is of the progression 1, 2, 4, 8,?
	Mark only one oval.
	7th term
	8th term
	9th term
	10th term

28. 20. A set consisting of a definite number of elements is called a Mark only one oval.

Null set

Singleton set

____ Infinite set

Finite set

29. 21. If $A = \{1, 2, 4\} B = \{2, 4, 5\}, C = \{2, 5\}$ then $(A - B) \times (B - C)$

Mark only one oval.

{(1, 2), (1, 5), (2, 5)}

((1, 4))

(1, 4)

None of these

30. 22. Find the range for the relation: {(3, 5), (2, 5), (2, 6), (3, 7)

Mark only one oval.

{2, 3}

(5, 6, 7)

(3, 2, 6)

(2, 3, 5)

31.	23. Find the sum of the series 2+5+8+ +182
	Mark only one oval.
	5418 5520 5612 5623
32.	24. Find the 5th term from the end of the G.P. 3, 6, 12, 24,, 12,288 Mark only one oval.
	192 384 768 1536
33.	25. If log 27 = 1.431, then the value of log 9 is: Mark only one oval. 0.945 0.954 0.958 0.93400000000000000000000000000000000000

34.	26. If n arithmetic means are inserted between 1 and 31, such that the ratio of the first mean and the nth mean is 3 : 29, then the value of n is
	Mark only one oval.
	10
	12
	13
	14
35.	27. If the sum of p terms of an A.P. is q and the sum of q terms is p, then the sum of $p+q$ terms will be
	Mark only one oval.
	O
	p - q
	p + q
	—(p + q)
36.	28. The number of non zero rows of a matrix in its row echelon form is a
	Mark only one oval.
	Row matrix
	Column matrix
	Rank of matrix
	Augmented matrix

37.	29. Exogenous variables of a matrix are called
	Mark only one oval.
	Endogenous variables
	Dependent variables
	Mixed variables
	Independent variables
38.	30. A diagonal matrix in which all diagonal elements are equal is called
	Mark only one oval.
	Unit matrix
	Null matrix
	Scalar matrix
	Triangular matrix
39.	31. If A, B are symmetric matrices of the same order, then AB – BA is a
	Mark only one oval.
	Skew symmetric matrix
	Symmetric matrix
	Zero matrix
	Identity matrix

40.	32. If the matrix A is both symmetric and skew symmetric, then
	Mark only one oval.
	A is a diagonal matrix A is a zero matrix
	A is a square matrix
	None of these
41.	33. Which of the following is correct
	Mark only one oval.
	Determinant is a square matrix
	Determinant is a number associated to a square matrix
	Determinant is a number associated to a matrix
	None of these
42.	24. 2 No 's are in Goometrie Progression if
42.	34. 3 No.'s are in Geometric Progression if
	Mark only one oval.
	a, ar, ar2
	a=(b-c)/2
	B=(a+c)/2
	None of these

43.	35. Sum of first fifteen terms of series 5+10+20+ is
	Mark only one oval.
	341
	1023
	5115
	10230
44.	36. What is the 31st term of the sequence: 1, 4, 7, 10,
	Mark only one oval.
	90
	91
	92
	93
45.	37. Sum of first fifteen terms of series 3+19+35+ is
	Mark only one oval.
	16
	23
	345
	1725

46.	38. Let the sequence be 1, 3, 5, 7, 9 then this sequence is
	Mark only one oval.
	An arithmetic sequence
	A geometric progression
	A harmonic sequence
	None of these
47.	39. For the given Arithmetic progression find the position of first negative term 50,
	47, 44, 41,
	Mark only one oval.
	17
	18
	20
	None of these
48.	40. Which of the following sequences in AP will have common difference 3,where r is an Integer
	Mark only one oval.
	an = 2n2 + 3n
	an = 2n2 + 3
	an = 3n2 + 3n
	an = 5 + 3n

49.	41. Find the sum of 1st 1,000 odd no
	Mark only one oval.
	5000
	10000
	1000000
	5000000
50.	42. In Exclusive type the formula for nth term in AP is
	Mark only one oval.
	an=a1+d(n-1)
	a1=an+d(n-1)
	d=a1+an(n-1)
	n=a1+d(an-1)
51.	43. In case of a series 1, 11, 21, 31,,51 In AP find the 5th term in AP is
	Mark only one oval.
	41
	<u>61</u>
	<u></u>
	<u>81</u>

52.	44. In case of AP and GP, AP is always than GP
	Mark only one oval.
	Greater
	Less
	Equal
	None of these
53.	45. In case of a series 1, 11, 21, 31, In AP find the sum of first 20 no's in AP
	Mark only one oval.
	250
	351
	785
	960
54.	46. a, b, c are in GP if is true
	Mark only one oval.
	b2=ac
	a=bc
	c=a2b
	c=ab

55.	47. Sum of n terms of G.P is
	Mark only one oval.
	a(1-rn)/(1-r)
	2ab/(a+b)
	a+b/2
56.	48. If a, G, b are in Geometric Progression then 'G' is said to be
	Mark only one oval.
	arithmetic mean
	geometric mean
	standard deviation
	None of these
57.	49. If sequence does not has a last term, then it is said to be
57.	
	Mark only one oval.
	finite sequence
	arithmetic sequence
	infinite sequence
	None of these

58.	number of the sequence is 45. What are the three numbers
	Mark only one oval.
	5, 7 & 9
	9,7 & 5
	3, 7 & 11
	Both 5, 7 & 9 & 9, 7 & 5
59.	51. In case of series in 4, 7, 10, in AP, 6th term is
	Mark only one oval.
	13
	19
	22
	25
60.	52. If the order of matrix A is . And the order of B is . Then the order of matrix AB is
	Mark only one oval.
	$m \times n$
	n × m
	$n \times p$
	m × p

61.	53. Transpose of a rectangular matrix is a
	Mark only one oval.
	rectangular matrix
	diagonal matrix
	square matrix
	scalar matrix
62.	54. Which one is known as Scalar Matrix from the following
	Mark only one oval.
	Identity Matrix
	Square Matrix
	Row Matrix
	Column Matrix
63.	55. If A is a symmetric matrix, then At =
	Mark only one oval.
	A
	☐ IAI
	0
	diagonal matrix

04.	56. A matrix with identical and zero elements has a specific name, what is it.
	Mark only one oval.
	Square
	Null
	Scalar
	None of these
65.	57. Name the matrix obtained by inter changing rows and columns
	Mark only one oval.
	Scalar
	Row
	Column
	Transpose
66.	58. What happens when the rows and columns of a determinant are interchanged
00.	
	Mark only one oval.
	Value remains same
	Value differs
	Equal value
	None of these

67.	59. What happens if any two rows or columns of a matrix are identical.
	Mark only one oval.
	The value of determinant is one
	The value of determinant is zero
	Two
	None of these
68.	60. A skew symmetric matrix occurs when
	Mark only one oval.
	AA/=2
	A= -A/
	A/-A=1
69.	61. Commutative property of matrices means that
	Mark only one oval.
	A+B=B+A
	A=B
	B-A=A-B
	None of these

70.	62. In a square matrix the elements for which row nos and column nos are is called a diagonal element
	Mark only one oval.
	Equal
	Not equal
	Zero
	Unit
71.	63. A row matrix
	Mark only one oval.
	has a single row
	a single column
	ono rows
	None of these
70	/ 1. Consequined forms of rectain is boot represented as
72.	64. Generalized form of matrix is best represented as
	Mark only one oval.
	constant rows and columns
	variable rows and columns
	m rows and n columns
	n rows and m columns

73.	65. In case of an payments of installments are made after the lapse of each period called annuity due
	Mark only one oval.
	Annuity
	Annuity due
	Net Present Value
	Sinking Fund
74.	66. In compound interest the interest is calculated by at the end of each
	year up to the end of payment period
	Mark only one oval.
	Compounding
	Applying
	Calculating
	Editing
75.	67. In case of interest nominal interest rate is than compounding rate
	Mark only one oval.
	Less than
	More than
	Equal than
	None of these

70.	68. In case of straight line depreciation method the depreciation value is always _
	than reduced value method after 1st year
	Mark only one oval.
	Less
	More
	Equal
	None of these
77.	69. Under which depreciation method the amount of depreciation expenses remains same throughout the useful life of a fixed asset
	Mark only one oval.
	Straight Line
	Reducing Balance
	No. Of units produced
	Machine hours method
78.	70. A company purchased a vehicle for Rs 6,000. I will be used for 5 years and its residual value is expected to be Rs 1,000. What is the annual amount of deprecation using straight line method of depreciation
	Mark only one oval.
	1000
	2000
	3000
	3300

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