Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Business Mathematics
Course Code - BCM402

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Answer all the questions. Each question carry one mark.

9.   1. This is the formula for Present Value of immediate annuity, P (present value of annuity), a (annual payment of an ordinary annuity), i (interest per year)

Mark only one oval.

$$P = \frac{a}{c}\left[1 - \frac{1}{(1-i)^n}\right]$$

$$P = \frac{c}{a}\left[1 - \frac{1}{(1-i)^n}\right]$$

⬭ Option 1   ⬭ Option 2

$$P = \frac{i}{c}\left[1 - \frac{1}{(1-a)^n}\right]$$

$$P = \frac{a}{i}\left[1 - \frac{1}{(1-c)^n}\right]$$

⬭ Option 3   ⬭ Option 4

10.   2. How many terms are there in 20, 25, 30.......... 140

Mark only one oval.

⬭ 22

⬭ 25

⬭ 23

⬭ 24

11. 3. Common difference of sequence 1,4,7,10,... is

Mark only one oval.

◯ 3

◯ -3

◯ 0

◯ 1

12. 4. 15, 12, 9, 6, 3... is

Mark only one oval.

◯ AP

◯ GP

◯ Arithmetic Series

◯ Geometric Series

13. 5. If A, G, H are arithmetic, geometric and harmonic means between a and b respectively, then A,G,H are

Mark only one oval.

◯ in GP

◯ in AP

◯ in HP

◯ Real numbers

14. 6. Fifth term of sequence an = 2n-3 is

Mark only one oval.

⊘ -13

⊘ -7

⊘ 7

⊘ 13

15. 7. 2,4,6,8,10,12,... is

Mark only one oval.

⊘ GP

⊘ AP

⊘ Geometric Series

⊘ Arithmetic Series

16. 8. 3,6,12,... is

Mark only one oval.

⊘ an A.P

⊘ a G.P

⊘ a H.P

⊘ None of these

17. 9. A number A is said to be arithmetic mean between two numbers a and b if a,A,b is

Mark only one oval.

◯ a sequence

◯ not a sequence

◯ GP

◯ AP

18. 10. Let the sum of the 3 consecutive terms in AP be 180 then middle of those 3 terms would be

Mark only one oval.

◯ 60

◯ 80

◯ 90

◯ 179

19. 11. Common difference of sequence 1,3,5,7,... is

Mark only one oval.

◯ 2

◯ 3

◯ 0

◯ 9

20.   12. Common ratio of sequence 2,4,8,16,... is

Mark only one oval.

   ○ 4

   ○ 6

   ○ 8

   ○ 2

21.   13. Let the sum of the 3 consecutive terms in AP be 120 then middle of those 3 terms would be

Mark only one oval.

   ○ 20

   ○ 40

   ○ 60

   ○ 80

22.   14. The first and last term of an A.P. are 1 and 11. If the sum of its terms is 36, then the number of terms will be

Mark only one oval.

   ○ 5

   ○ 7

   ○ 6

   ○ 8

23.   15. In case of a series 1, 11, 21, 31, ... In AP find the sum of first 10 no's in AP

Mark only one oval.

◯ 460

◯ 250

◯ 351

◯ 785

24.   16. a, b, c are in AP if _____ is true

Mark only one oval.

◯ b=(a+c)/2

◯ c=(a+b)/2

◯ b=c=a

◯ b=ac

25.   17. The 7th term of the Geometric Progression 2, 6, 18, ... is

Mark only one oval.

◯ 1458

◯ 5832

◯ 2919

◯ 729

26. 18. 5th term of a GP 3, 6, 12, ... Is

Mark only one oval.

○ 15

○ 48

○ 2

○ 3

27. 19. If a = 3, r = 2, then the nth term of the G.P is

Mark only one oval.

○ 2.3^(n-1)

○ 3.2^n

○ 3.2^(n+1)

○ 3.2^(n-1)

28. 20. The sum of third and ninth term of an A.P is 8. Find the sum of the first 11 terms of the progression.

Mark only one oval.

○ 44

○ 22

○ 19

○ None of these

29.   21. We can subtract two matrices A and B if their

Mark only one oval.

⬭ elements are same

⬭ order is same

⬭ rows are same

⬭ columns are same

30.   22. If the order of matrix A is m x p. And the order of B is p x n . Then the order of matrix AB is

Mark only one oval.

⬭ m × n

⬭ n × m

⬭ n × p

⬭ m × p

31.   23. Unit matrix written in format of square is also called as

Mark only one oval.

⬭ Identity matrix

⬭ unidentified matrix

⬭ direction matrix

⬭ dimension matrix

32.   24. Two matrices A and B are multiplied to get AB if

Mark only one oval.

○ both are rectangular

○ both have same order

○ no of columns of A is equal to columns of B

○ no of rows of A is equal to no of columns of B

33.   25. If |A| = 0, then A is

Mark only one oval.

○ zero matrix

○ singular matrix

○ non-singular matrix

○ 0

34.   26. If A is a symmetric matrix,then At =

Mark only one oval.

○ A

○ |A|

○ 0

○ diagonal matrix

35. 27. Skew symmetric matrix is also called

Mark only one oval.

◯ symmetric

◯ identical matrix

◯ anti symmetric

◯ square matrix

36. 28. Name the matrix with zero value for elements above diagonal elements

Mark only one oval.

◯ Identity

◯ Diagonal

◯ Triangular

◯ Square

37. 29. In matrices Transpose of (a + b) equals to

Mark only one oval.

◯ A Transpose

◯ B Transpose

◯ A Transpose + B Transpose

◯ None of these

38.   30. An association of 2 or more persons to carry on a business for the purpose of earning profit is known as

Mark only one oval.

( ) partnership

( ) legal entity

( ) insurance

( ) None of these

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