FYBMS SEM 2

1. A fund formed by periodically setting aside money for the gradual repayment of a debt or replacement of a depreciating asset is known as ....
2. A .... is an arrangement of all or part of a set objects in a definite order.
3. Inverse of a square matrix is possible only if its determinant is...........
4. Derivative of 'y' with respect of 'x' represents.............
5. The derivative of logx..............
6. There are three nails on a wall and seven pictures. In how many ways can pictures be put on all the nails?
7. A matrix of order n, having all non-diagonal elements zero is called
8. If transpose of a matrix is same as the matrix, it is called...........
9. If two rows of a determinant are interchanged its value........
10. If A is a non-singular square matrix then A. (adjoint of A) =..........
11. The matrix of final demands of consumers is ....
12. If elasticity of demand is 0, the demand is said to be ....
13. The product of price and demand is known as
14. What is the simple interest on 20,000 for 3.5 years at 6% rate of interest per annum........
15. If simple and compound interests are calculated for a sum of 1,50,000 @ 10.5% p.a for 7 years, then the following is true.

    a) Simple interest is greater than compound interest
    b) Simple interest is less than compound interest
    c) The data is insufficient
    d) Simple interest is equal to compound interest

16. Given P=1500, N= 2 years ,R= 3% then simple interest is
    a)100   b)90   c)80   d)70
17. In an equation the term x has higher power 1 this equation is called ....
    equation.
    a)linear   b)quadratic   c)cubic   d)constant
18. If f(x)= 4x-9 then f(1)=
    a)2   b)6   c) -5   d)0

19. A matrix of order 5×8 has .... Rows.
    a)8   b)5   c)0   d)40

20. The derivative of x is ....
    a)1   b)2   c)0   d) 3

21) If the payments of an annuity are made at the end of periods the annuity called_____.
a)error b) statistic c)immediate d)none of the above

22. The point where demand=supply is known as _____.

a) demand b) supply c)equilibrium d) error

23. The product of first n natural number is denoted by _____.

a) n b) n! c) $n\,2$ 4) $n\,4$

2 4. If the transpose of matrix is same as the matrix is called _____ matrix.

a)symmetric b)diagonal 3)square 4)inverse

2 5. A row matrix has only one _____.

a) column b) entry 3)number 4)row

2 6. To find values of 3 unknown variables we require a set of _____ simultaneous equations.

a) one b)two c) three d)four

2 8. The matrix of input coefficient in input output analysis is called _____.

a) error b) statistic c)technology d)analysis

29. The derivative of x is _____.

a) x 1 b) 2 x 1 c) 0 d) 1

30. The relation between the operators ∇ and E is _____.

a) $\nabla = 1 - E^{-1}$ b) $\nabla = 1 + E$ c) $\nabla = 1 - E$ d) $\nabla = E^{-1} - 1$