Mathematics Assignment 2(2)

Class XI

Chapter 2– Relations and Functions

Functions

Multiple Choice Questions

1. The significant models to explain mathematical relationships are represented by

    A. functions
    B. constant function
    C. exponent function
    D. model function

2. In solving mathematical problems, the mathematical function work as

    A. output-input device
    B. input-output device
    C. solving function
    D. terminating function

3. In the function y = f(x), the 'f' is classified as

    A. name of function
    B. value of function
    C. upper limit of function
    D. lower limit of function

4. In the function y = f(x), the 'y' is classified as

    A. dependent variable
    B. lower limit variable
    C. upper limit variable
    D. independent variable

5. The set of all the possible input values for a function is classified as

    A. lower limit
    B. range
    C. domain
    D. upper limit

6. The set of all the possible output values for a function is classified as

   A. domain
   B. upper limit
   C. lower limit
   D. range

7. The function written as y = -4x + 16 is general form of

   A. variable function
   B. constant function
   C. linear function
   D. None of these

8. The notation of mapping input values to output values is written as

   A. $f:x \rightarrow y$
   B. $f:y \rightarrow x$
   C. $x:y \rightarrow f$
   D. $y:x \rightarrow f$

9. The function of relationship between variables $y = f(x)$ is translated as

   A. y is function of x
   B. x is function of y
   C. x is not function of y
   D. y is not function of x

10. The function is a rule of mathematics in which one input value has

    A. one output value
    B. two output values
    C. three output value
    D. many output values

11. The function of two variables in a way that u is dependent variable and v is independent variable is written as

    A. $u = f(v)$
    B. $f = u(v)$
    C. $v = f(u)$
    D. $f = v(u)$

12. The type of function which contain only one independent variables is classified as

    A. variant function

B. multivariate function

C. univariate function

D. bivariate function

13. The type of function which contain two independent variables is classified as

A. bivariate function

B. univariate function

C. variate function

D. multivariate function

14. The function written as $y = f(x) = a^1x + a^0$ is general form of

A. linear function

B. variable function

C. None of these

D. constant function

15. The function which is considered as function of values of another function is classified as

A. composite function

B. exchange function

C. change function

D. view function

16. The function written as $y = f(x) = a^0$ is general form of

A. variable function

B. constant function

C. linear function

D. None of these

17. The function with the general form $y = f(x) = g(x)/h(x)$ is the form of function called

A. marginal function

B. rational function

C. irrational function

D. polynomial function

18. The value h(x) is 6x³-3x+9 and the g(x) = 3x then the rational function is written as

A. 3x-6x³-3x+9

B. 3x+6x³-3x+9

C. 3x⁄6x³-3x+9

D. 6x³-3x+9⁄3x

19. To state the function that value of variable y is determined by variable of x is written as

A. f = (x)y
B. x = f(y)
C. y = f(x)
D. f = (y)x

20. If f(x) and g(x) are defined on domains A, B respectively, then domain of f(x) + g(x) is

A. A ∪ B

B. A ∩ B

C. A Δ B

D. A - B

ANSWER

1. A	2.B	3. A	4. A	5. C
6. D	7. C	8. A	9. A	10. A
11. A	12. C	13. A	14. A	15. A
16. B	17. B	18. C	19. C	20. B