Engineering Mathematics-I 2019-course Unit-III Partial Differentiation MCQ’S

1) If ( ) then is

A)

B)

C)

D)

Ans : B

2) If ( ) then is

A)

B)

C)

D)

Ans:A

3) If ( ) then is

A)

B)

C)

D)

Ans:D

4) If then is

A)

B)

C)

D)

Ans :C

5) If then is

A)

B)

C)

D)

Ans:A

6) If  and then is A) [ ]

B) [ ]

C) [ ]

D) [ ]

Ans:B

7) If  and  then is A) [ ]

B) [ ]

C) [ ]

D) [ ])

Ans:B

8) If ( ) and ( ) then A)( )

B)( )

C)( )

D)( )

Ans: A

9) If ( ) and √thenis A) ( )

B) ( )

C) ( )

D) ( )

Ans: D

10) If ( ) and √ then is A) ( )

B) ( )

C) ( )

D) ( )

Ans: A

11) If and then ()is A)

B)

C)

D)

Ans :B

12) ) If and then ()is A)

B)

C)

D)

Ans : C

13)If is a homogeneous function of of degree then A)

B)

C)

D)

Ans:B

14) If is a homogeneous function of of degree then A) ( )

B) ( )

C)

D) ( )

Ans:D

15) If is a homogeneous function of of degree and ( ) then A)  ( )

( )

B)

C)  ( )

( )

D)  ( )

( )

Ans:A

16) If is a homogeneous function of of degree and ( ) then A) ( )[( ) ] where ( ) ( ) ( )

B) ( )[( ) ] where ( ) ( ) ( )

C) ( )[( ) ] where ( ) ( ) ( )

D) [( ) ] where ( ) ( ) ( )

Ans:C

17) (

) is a

A) Non-homogeneous function.

B) Homogeneous function of degree zero.

C) Homogeneous function of degree one.

D) Homogeneous function of degree two.

Ans: B

18) If \*

+ then

A) u is a homogeneous function of degree one.

B) is a homogeneous function of degree one.

C) u is a homogeneous function of degree zero.

D) is a homogeneous function of degree zero.

Ans: B

19)If √ √ and √ √ where are constants then ()is A) √

B) √

C)

√

D)

√

Ans: C

20) If √ √ and √ √ where are constants then ()is A)

√

B)

√

C)  √

D)  √

Ans: A

21)If then ()is

A)

B)

C)

D)

Ans: D

22) If then ()is

A)

B)

C)

D)

Ans: A

23) If and are independent variables and is a function of  then is A)

B)

C)

D)

Ans: C

24) If and are independent variables and is a function of  then is A)

B)

C)

D)

Ans: B

25) If () then is A)

()

B)

()

C)

()

D)

()

Ans: A