

QUESTION BANK

Q1.If z = f( x + ay) + g( x – ay), then

A. zxx  = zyy

B. zxx  = a2 zyy

C. zyy  = a2 zxx

D. zxx  + a2 zyy = 0

Q2. If y), then fxy is equal to

A.

B. 0

C.

D. none of these

Q3. If , then is equal to

A. z

B. 2z

C. 0

D. 4z

Q4. If , then is equal to

A. 3u

B. 2u

C. 0

D. 3

Q5. If be such that , then is equal to

A. 1

B. 2

C. 0

D. none of above

Q6. If ,

then is equal to

A. 0

B. u

C. 2u

D. 3u

Q7. If u = f( y + ax) + g( y – ax), then uxx – a2 uyy is equal to

A. 0

B. a2

C. a2(f “ – g“)

D. a2(f “ + g“)

Q8. If are :

A.

B.

C.

D.

Q9. If then is :

A. 0

B. 1

C. 2

D. 3

Q10. If is:

A.

B.

C.

D.

Q11. If :

A. .

B. .

C. .

D. .

Q12. If u = log (x2 + y2 + z2) , then the value of x ux + y uy + z uz is equal to

A. 0

B. 2u

C. 2

D. 2 eu

Q13. If u = log x + log y, then the value of x ux + y uy  is

A. u

B. 2u

C. 1

D. 0

Q14. If such that , the value of n is

A.

B.

C.

D. 1

Q15. If , then is

A.

B.

C.

D.