

**SCHEME ECA 5318: MATHEMATICAL METHODS FOR ECONOMICS**

**B.A. ECONOMICS– V SEMESTER  
SEMESTER EXAMINATION: OCTOBER 2019**

Part – A

I Answer any 10 [10 x 3 = 30]

1.  $A^2LK^2 - B^3L^2K^3$  and  $APL = ALK^2 - BL^2K^3$ .
2. 80
3. =3
4. 10100.
5.  $100 \cdot (1 - \alpha) k^{-\alpha}$  or  $100L^\alpha \cdot (1 - \alpha)k^{-\alpha}$
6. 10 and 110.
7.  $10X^4 + 24X^3 + 18X + 27$
8. 32
9. by derivation
10. to be proved = 3u
11. Multiplying both sides by lambda Q .
12.  $C = 2/3y + 10$

PART-B

II [2x 5 = 10]

13. addition theorem to be proved LHS = RHS
14. To be proved with the help of eulers thorem

15. 12-2L, 46, MP =0 AND AP = 7.67

16. X= 12.5 and y = 25 .

PART-C

III. Answer any 2 of the following [2 x 15 = 30]

17. 11.3,/ 979,/89/,78,/867.8,/78.88/78.

18. Mathematical derivation of MR/AR/ AND ED

19. C.S = 4 AND P.S 2 .

20. 3.35/ 3.47 11.4/ AND 8.4

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