Roll No.

ED-2762

B. A/B. Sc./B. Sc. B. Ed. (Part III) EXAMINATION, 2021

MATHEMATICS

Paper Third (C)

(Application of Mathematics in Finance and Insurance)

Time: Three Hours

Maximum Marks: 50

Note: Attempt any *two* part from each question. All questions carry equal marks.

Unit—I

- 1. (a) Discuss the main decisions of financial management.
 - (b) What do you mean by interest rate and discount rate?
 - (c) Explain speculation and gambling.

Unit—II

- 2. (a) What are differences between risk and uncertainty?
 - (b) What do you mean by Markowitz model?
 - (c) Discuss rate of return.

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Unit—III

- 3. (a) What do you mean by Taylor's series?
 - (b) Explain Arbitrage theorem?
 - (c) Explain financial derivatives

Unit—IV

- 4. (a) How can we calculate premium of life insurance?
 - (b) What do you mean by chances of loss?
 - (c) Discuss of various types of life insurance.

Unit-V

- 5. (a) Explain the general insurance by using negative binomial distribution.
 - (b) Discuss the compound aggregate claim model.
 - (c) Explain the F-recursive and approximate formulae for F.

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