

ED-2762

B.Sc./B.Sc. B.Ed. (Part-III) Examination, 2022

(Old Course)

MATHEMATICS

Paper - III (C)

Application of Mathematics in Finance and Insurance

Time: Three Hours] [Maximum Marks: 50

Note: Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

- **1.** (a) What is Financial Management?
 - (b) Difference between speculation and gambling.
 - (c) What do you mean by present value of annuity?

DRG 269 (3)

(Turn Over)

Unit-II

- **2.** (a) Distinguish between Annual Rate of Return and Internal Rate of Return.
 - (b) Difference between Risk and Uncertainty.
 - (c) Explain the measurement of return under uncertainty situations.

Unit-III

- **3.** (a) What do you mean by bond valuation?
 - (b) What do you mean by financial derivatives and explain features?
 - (c) Explain call and put option.

Unit-IV

- **4.** (a) How can we compute the premium of life insurance for a fixed duration?
 - (b) Explain cost and benefits of insurance to the society.
 - (c) What is the difference betweem peril and risk?

Unit-V

5. (a) Explain the general insurance by using Poisson distribution.

(b) How can we use compound claim density function?

(c) Explain claim of reinsurance.