

W-3314(A)

M.A./M.Sc. (Fourth Semester) Examination, (Second Chance)

June-2020

MATHEMATICS

Paper - 404

Mathematics of Finance and Insurance

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note : Attempt **all** questions.

Unit-I

Q.1. Define an annuity with four examples. Explain types of an annuity completely.

Unit-II

Q.2. Explain net premium and survival distribution.

Unit-III

Q.3. Explain risk and types of risks completely. Also discuss capital market theory.

Unit-IV

Q.4. Explain Geometric Brownian Motion. Also explain equity as a call option.

Unit-V

Q.5. Write short notes on :

- a) Dynamic aspect of Delta Hedging
- b) Vega

