

Roll No.

Y – 3183 (A)
M.A./M.Sc. (Mathematics) (Fourth Semester) (SPECIAL)
EXAMINATION, August 2021
(SECOND CHANCE)

Paper – 404

MATHEMATICS OF FINANCE AND INSURANCE

Time : Three Hours

Maximum Marks : 85 (For Regular Students)

Minimum Pass Marks : 29

Maximum Marks : 100 (For Private Students)

Minimum Pass Marks : 34

Note—Attempt *all* questions.

1. Define an Annuity with four examples. Explain types of an annuity completely. 17/20
2. Explain life annuities and registration of insurance. 17/20
3. Explain yield of Maturity and Markowitz model. 17/20
4. State and prove Ito's lemma for several assets. 17/20
5. Write short notes on— 17/20
 - (i) Two-step Binomial model
 - (ii) Theta.