B.Sc. DEGREE EXAMINATION,ODD SEMESTER 2020
II Year III Semester
Distribution Theory - II

Max.marks :25

Answer any **FIVE** questions $(5 \times 5 = 25)$ Marks

1. State and prove the memory less property of the exponential distribution.
2. Find variance for Laplace distribution.
3. Find the moment generating function of Chi − Square distribution.
4. List the applications of t − distribution.
5. Explain the joint distribution of two order statistics.
6. Prove that sum of independent Chi − square variates also a Chi − square variate.
7. State and prove the additive property of Gamma distribution.