INTERNAL ASSIGNMENT 2017 = 2018	Il version of DF Editor tice, visit:
Internal Assessment Mathematics - I (BA) set I A	
Sec.A .	20.01
finsues the following Questions, 5*4=20000 by	
O solve inits dy + y = tons. Approximate Martin	3
(2) Solar (2 + 2x) da + 2ydy = 0	
D Selve pit XPX - 31" 0	
( show that every subgroup of a cycle group is in	
() chern that , $\overline{\nabla} = 2xy^2 + x^3 + x^3 + x^3 + x^4 + x^4$	
-Daswer the following Questions 2×5= 100	
(3) solve dy + any = secar by the method of variation	
of parameters.	
(F). State and prove Cayley's theorem.	

## B.A. I YEAR

## INTERNAL ASSIGNMENT 2017 - 2018 Subject : Applied Mathematics

#### Section - A

#### UNIT – I : Answer the following short questions (each question carries two marks) 5x2=10

- 1. Define (i) Simple harmonic motion (ii) Simple Pendulum.
- 2. Explain triangle Law of Forces.
- 3. Explain Laws of Friction.
- 4. State and prove, Principle of Conservation of work and Energy.
- 5. Explain parallelogram Law of Velocities.

#### Section – B

#### UNIT – II: Answer the following Questions (each question carries Five marks) 2x5=10

- 6. Find the resultant of two parallel forces acting upon a rigid body.
- If a particle be fixed by a string to a fixed point, and allowed to oscillate through a small angle about the vertical position, show that the time of a complete oscillation is Where I is the length of the string.

# B.A. (Mathematics & Statistics) IYEAR

INTERNAL ASSIGNMENT 2017 - 2018

### Subject :: STATISTICS

#### Section - A

WNIT-II: Answer the following short questions (each question camies two marks)

- 1 Explain Kuntosis?
- 2. Define conditional probability and Independent events
- 3. Define MGF and CGF
- 4. State and prove additive property of Poisson distribution ?
- 5. State the characteristics of Normal I distribution?

#### Section -- B

UNIT--III: An environ the fiellowing Questions (exact question camiles Fixe manks) 2x5=10

- 6. Derive the relationship between central moments interms of rew moments?
- 77. State and Prove Bayes theorem ?







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