



# AJEENKYA

## D Y PATIL UNIVERSITY

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### End Term Examination (December 2019)

**School:** School of Engineering  
**Course:** Next-Generation Sequencing and Personalized Medicine

**Program:** B.Tech Biotechnology (Medical)

**Course Code:** BTE407

**Semester:** VII

**Max Marks:** 40

**Duration (mins):** 90

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Answer the following questions.

- Q1. Discuss the applications of Transcriptome sequencing. [5]
- Q2. a) Discuss three analytical pipelines 'HugeSeq', 'SIMPLEX' and 'TREAT'. [5]  
OR  
b) Describe three workflow systems 'Galaxy', 'LONI' and 'Taverna'.
- Q3. Describe any four tools of Variant identification. [10]
- Q4. Compare any four tools used for Variant annotation. [10]
- Q5. Discuss the working and applications of PacBio sequencing. [10]