



# AJEENKYA

## D Y PATIL UNIVERSITY

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### End Term Examinations (December 2018)

**School :** Engineering      **Program:** B.Tech Biotechnology

**Course:** Genetic Engineering II      **Course Code:**BTE305

**Semester:** V      **Max Marks:** 50      **Duration (mins) :** 120 min

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**Note: Answer any 5 questions.**

- Q1. Explain the construction of a high capacity vector YAC. (10)
- Q2. Describe Southern Hybridization in detail. (10)
- Q3. Describe the production of recombinant insulin. How has it helped in biotech industry? (10)
- Q4. How can you make a transgenic animal to produce recombinant proteins? Explain. (10)
- Q5. Explain the effect of primer length in PCR. (10)
- Q6. What are the methods of insertion of DNA in cells? Discuss. (10)
- Q7. What are the problems of production of recombinant proteins in host cell? How can you circumvent the problems? Discuss. (10)
- Q8. Describe the preservation techniques of animal cell culture. (10)
- Q9. What is blue white screening? Explain the principle of blue white screening with suitable vector. (10)
- Q10. Describe the different cytotoxicity tests in animal cell culture and their utility in drug discovery. (10)