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Roll No. ....

**351**

**B. Tech. EXAMINATION, Dec. 2017**

(Third Semester)

(Old Scheme) (Re-appear Only)

(BME)

BME-201

BIOCHEMISTRY

*Time : 3 Hours]*

*[Maximum Marks : 100*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt any *Five* questions. All questions carry equal marks.

1. (a) Explain the role of Golgi apparatus and Nucleus. **10**

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**P.T.O.**

- (b) Discuss the mechanism of transport of substances across biological membrane. **10**
2. What are diagnostic enzymes ? Explain the properties and chemical nature of enzymes. **20**
3. What do you mean by recombinant DNA ? Explain the structure of RNA in detail. **20**
4. Explain the chemical composition of urine. Also discuss the clinical significance of abnormal constituents of urine. **20**
5. Define acid and base. Discuss the method and significance of biochemical measurement of acid base status of patients. **20**
6. Write short notes on the following : **20**
- (a) Differential Centrifugation
  - (b) Nephelometry
  - (c) Lymph
  - (d) pH.
7. Explain the principle and working of photometry with a neat and well labelled diagram. **20**
8. Define radioactivity and explain the role of isotopes in medical sciences. **20**