

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**

**TEST-2 EXAMINATION OCTOBER 2018**

**BTech (Biotech) 7<sup>th</sup> Semester**

*Dr. Udhay Kumar*

**COURSE CODE: 14B1WBT736**

**MAX. MARKS: 25**

**COURSE NAME: Antibody Engineering Technologies**

**COURSE CREDITS: 03**

**MAX. TIME: 1HR 30 MIN**

*Note: All questions are compulsory. Carrying mobile phone during examinations will be treated as a case of unfair means.*

- 1) Analyze the merits and demerits of the following, for cancer therapeutics
  - a. Cleavable Linkers [2.5\*2=5] (CO-II)
  - b. Cross fire effect
- 2) Elaborate 'Antibody directed enzyme prodrug therapy (ADEPT)', with its advantages and disadvantages along with suitable example. [4 Marks] (CO-III)
- 3) Name the methods used to determine molecular identity and structural identity of monoclonal antibody. [2Marks] (CO-IV/V)
- 4) Write a note on Prolia (Denosumab). Explain its mechanism, indication, composition and warnings. [5Marks] (CO-IV/V)
- 5) What are the side effects of Avastin (Bevacizumab). [2Marks] (CO-IV/V)
- 6) Give the mechanism of action of the following [2+1+1+1+1=5](CO-IV/V)
  - a. Erbitux (Cetuximab)
  - b. Herceptin (Trastuzumab)
  - c. Humira (Adalimumab)
  - d. Synagis (Palivizumab)
- 7) Name the monoclonal antibody used for the treatment of a) Crohn's disease b) Non-Hodgkin's Lymphoma [2Marks] (CO-IV/V)