

Birla Institute of Technology & Science, Pilani

Ist Semester 2016-17

Mid Semester Examination. Molecular Immunology BIOG514 90min 30 M(CB)

- 1) Distinguish between dendritic cells and follicular dendritic cells. (2)
- 2) How does the spleen assist in adaptive responses to blood borne antigens ?(2)
- 3) What is passive immunity? Can you categorize this with any of the cardinal features of the adaptive immune response? Explain. (2)
- 4) Establish the role of selectins and integrins in leucocyte transmigration.(2)
- 5) Why do naive T cells home into the lymph nodes and populate distinct locations ? (2)
- 6) Distinguish between the different cell associated pattern recognition receptors involved in the innate immune response. (3)
- 7) Compare between a B cell receptor and a $\alpha\beta$ T cell receptor with reference to antigen recognition. (4)
- 8) Why do circulating IgG molecules have a half life of 21-28 days compared to other Igs whose half life is shorter ? (2)
- 9) Comment on the relationship between valency and avidity of an antigen antibody interaction . (3)
- 10)What is cross presentation ? Why is this phenomenon of importance? (3)
- 11)How are co receptors critical to T cell signaling ? (3)
- 12)Write short notes on a) neutrophils b) lymphatic system (2)