Dr. Gunjan Goyal

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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- Oct 2017

B.Tech BTDD X and M.Tech BT III Semester

COURSE CODE: 14M1WBT332 MAX. MARKS:25 COURSE NAME: Clinical Diagnostics COURSE CREDITS: 3 MAX. TIME: 1.5 Hrs Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Q1. What do you understand by assay development and validation? Enlist different criteria to be followed for assay validation. (2+2)Q2. Differentiate between: (4) a) Analytical sensitivity and specificity b) Diagnostic sensitivity and specificity c) Specificity and sensitivity of Ag-Ab interaction d) Avidity and Affinity of Ag-Ab interaction Q3. What types of specimens and their storage conditions you will maintain for the analysis of Cell mediated and humoral immune responses? (3)Q4. Describe the principle, protocol, precautions and application of ELISPOT assay. (3)O5. Write brief notes on: (6)Radioimmuno assays b) Complement fixation assay c) Chemiluminescence assays Q6. Describe the quantitiative radial immunodiffusion assay and its application in determining the concentration of antigens. (3) Q7. Discuss the role of flow cytometery in determining the immunological responses.