## **R16** Code No: 138CG JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, December - 2020 GLOBAL POSITIONING SYSTEM (Electronics and Communication Engineering) Time: 2 Hours Max.Marks:75 Answer any Five Questions All Questions Carry Equal Marks 1. How to determine the user position and velocity from received satellite ephemeris? Explain... Discuss briefly about User segment, Control segment and Space segment. [15] 3. Describe C/A code and P-code Generations with block diagrams. [15] 4.a) How Pseudo range is different from True range? Describe Selective Availability and how the Selective Availability is achieved. [6+9]Draw the schematic functional block diagram of the generic GPS receiver and explain each block in detail. [15] 6.a) Describe how ionospheric delay is estimated using dual frequency GPS receiver measurements. b) Define the tropospheric delay. [12+3]Discuss the salient features of WADGPS. b) What is Wide Area Augmentation System? 8. Describe Receiver Independent Exchange format (RINEX) of GPS observation and navigation data. [15] ---00O00---

(