POORNIMA UNIVERSITY, JAIPUR.
MID SEMESTER EXAMINATION 2020-21 (ODD Semester)

School	:	**School of Planning and Architecture**
Course	:	**II Year III SEM**
Subject Name	:	**Surveying & Site Planning**
Subject Code	:	**BAR03103**

Max. Time: 1.5 hrs.   **Max. Marks: 12**

NOTE:-   **Attempt four questions. There is internal choice in Q. 1 & 2, Q. 3 & 4, Q. 5 & 6, 7**

Sec-A (CO 3) (Max. Marks-6)   **Marks**

Q.1   What is total station? Explain and write any 2 functions.   **(3)**

OR

Q.2   How do you measure horizontal & vertical angle by theodolite   **(3)**

Q.3   How can you explain & describe the theodolite instrument.   **(3)**

OR

Q.4   Describe chain survey and compass survey   **(3)**

Sec-B (CO 4) (Max. Marks-6)

Q.5   Define prismatic compass, surveyor compass, total station, theodolite, cross staff, gunter's chain   **(3)**

OR

Q.6   A line was measured with a steel rape which was exactly 30 m at 16^oC and a pull of 55 N and the measured length was 489.42 m. Temperature during measurement was 38^oC and the pull applied was 190 N. The tape was uniformly supported during the measurement. Find the true length of the line if the cross-sectional area of the tape was 0.03 cm^2, the coefficient of expansion per ^oC = 0.0000117 and the modulus of elasticity = 21 x 10^6 N per cm^2.   **(3)**

Q.7   A line was measured with a steel tape which was exactly 20m long at 19^oC and found to be 452.343 m. The temperature during measurement was 32^oC. Find the true length of the line. Take coefficient of expansion of the tape per ^oC=0.0000117.   **(3)**