

IQRA National University, Peshawar

Assignment/Quiz (Summer Semester 2020)

Instructor: Engr Marvan Raza

Duration: 4 hours

Subject: Soil Mechanics

Total Marks: 30

Q.1 (5+5)

- (a) What is Weathering and briefly write its types?
- (b) Define porosity, voids ratio, water content, specific gravity of solid and degree of saturation?

Q.2 (5+5)

(a) An undisturbed soil sample has a volume of 1100 cm^3 and mass of 210 gm and after drying mass of soil reduced to 160 gm. The specific gravity of soil is 3.0. Find

1) water content 2) dry density 3) moist density

(b) Find relation between e , w , G_s , S_r for partially saturated soil ($e = W G_s / S_r$)

Q.3 Write a note on consistency limits (Atterberge limits) in details? (10)