NAME NASRULLAH

ID 7870

SECTION B

SUBJECT GEOTHICNICAL ENGINEERING

INSRUCTOR ENG MUNNEB

MODULE 6TH

**Q1**

**ANS**

**STANDARD PROCTER TEST** ;

* It is used to determine the compaction of different type of soil
* Its graph is parabolic in shape
* It also give relation between the moisture content of density of siol
* It is institu test which is done to determine the optional moisture content
* The max optimum moisture content achived for the highest value of dry density

**STANDARD PENETRATION TEST**

* It is simple and extensive method
* Its carried out in borehole
* It is usefull to determine the relative density and the angle of shearing resistance of cohesion less soil
* It is common in situ method to determine different geotechnical properties of soil
* It can be also used to determine the uncontrolled or unconfined compressive strength of cohesive soil

**Q2**

**Ans**

**Free swell index degree of explosives plastic limit**

*<20 low 0 - 35%*

*20 - 38 Modrate 25 - 50%*

*35 - 50 high 35 - 65%*

*>50 very high >45%*

**Q3**

**Ans**

Permeability test for soil in important because of the following;

1. To know whether plants root are being nourished by water
2. In engineering its important to know whether consolidation occur so it is observed
3. It is also helpful in fisheries to know about the fish culterse
4. To check if there is seelage of water into ground.