



**MONAD UNIVERSITY HAPUR (UP)**  
**(SCHOOL OF AGRICULTURE SCIENCE & ENGINEERING)**

Course : M.Tech.(S.W.C.)

Subject Name : Statistics

Sub. Code : MT-AGS-231

Assignment No: II

**Due date of submission: 10.11.2016**

**Instruction**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

**Q.1.**

- (a) A student is given a true false examination with 8 questions. If he corrects at least 7 questions, he passes the examination. Find the probability that he will pass given that he guesses all questions
- (b) ) If  $\theta$  be the acute angle between the two regression lines in the case of two variables x and y , show that  $\tan \theta = \frac{1-r^2}{r} \frac{\sigma_x \sigma_y}{\sigma_x^2 + \sigma_y^2}$

Where r,  $\sigma_x, \sigma_y$  have their usual meaning. Explain the significance where  $r=0$  and  $r=\pm 1$  .

**Q2.**

- (a) Describe the use of regression analysis and Write a short note on comparison of correlation and regression analysis.
- (b) In a normal distribution 31% of the items are under 45 and 8% are over 64. Find the mean and standard deviation of the distribution. It is given that if  $f(t) = \frac{1}{\sqrt{2\pi}} \int_0^t e^{-\frac{x^2}{2}} dx$  then  $f(0.5) = 0.19$  and  $f(1.4) = 0.42$



**MONAD UNIVERSITY HAPUR (UP)**  
**(SCHOOL OF AGRICULTURE SCIENCE & ENGINEERING)**

Course : M.Tech.(S.W.C.)  
Subject Name : Agricultural Meteorology  
Sub. Code : MT-AGS-232  
Assignment No: II

**Due date of submission: 10.11.2016**

Instruction

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q.1.

- (a) What is precipitation? Write & explain forms of precipitation.
- (b) What do you mean by snow fall? Write the factors affecting the distribution of rainfall.

Q2.

- (a) Define Insolation? Write the factors affecting of Insolation and explain the classification of climatology.
- (b) Define Climate and Weather? Write the elements of Weather and explain factor affecting of climate.



**MONAD UNIVERSITY HAPUR (UP)**  
**(SCHOOL OF AGRICULTURE SCIENCE & ENGINEERING)**

Course : M.Tech.(S.W.C.)  
Subject Name : Soil-Water-Plant Relationship  
Sub. Code : MT-AGS-233  
Assignment No: I

**Due date of submission: 10.11.2016**

**Instruction**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

**Q.1.**

- (a) What is permanent wilting point? Write the effect of soil moisture stress and water logging on plant growth.
- (b) What do you mean by water use efficiency? Explain.

**Q.2.**

- (a) Write down the importance of water in plant life.
- (b) Describe the ground water source and Write down the advantage & Dis-advantage of cannel irrigation.



**MONAD UNIVERSITY HAPUR (UP)**  
**(SCHOOL OF AGRICULTURE SCIENCE & ENGINEERING)**

Course : M.Tech.(S.W.C.)  
Subject Name : Watershed Development & Management  
Sub. Code : MT-AGS-234  
Assignment No: I

**Due date of submission: 10.11.2016**

**Instruction**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

**Q.1.**

(a) What do you mean by hydrologic data? Write the elements of statistics and describe.

(b) How many types of form of precipitation? Explain hydrology with diagram.

**Q.2.**

(a) Defined hydrology? Describe various factor affecting interception and Write down the various importance of hydrology.

(b) *Explain following terms-*

(i) Cook's Method,

(ii) Shape of watershed,

(iii) Rainfall Intensity,

(iv) Objectives of statistics.