



MONAD UNIVERSITY HAPUR (UP)
(DEPARTMENT OF AGRICULTURE SCIENCE & ENGINEERING)

Programme : M.Tech.(S.W.C.)I^{Sem}
Course Name : Advanced Engg. Mathematics
Course Code : MT-AGF-111
Assignment No : II

Due date of submission: 23.10.2017

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) Find the value of $\int_0^4 \frac{dx}{1+x}$ by Simpson's rule if $h = 1$.

(b) Find the rate of convergence of Regula falsi method.

Q.2

a) What is the value of following missing term :

x	0	1	2	3	4
y	1	3	9	?	81

b) Find the value of $5dy/dx = x^2 + y^2$, $y(0) = 1$, by Runge-Kutta fourth order method.



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Programme : M.Tech.(S.W.C.)I^{Sem}
Course Name : *Statistics-I*
Course Code : MT-AGF-112
Assignment No : II

Due date of submission: 23.10.2017

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) Find the mean deviation of the following frequency distribution:

Class	0-6	6-12	12-18	18-24	24-30
Frequency	8	10	12	9	5

(b) Find the first four moments for the following individual series:

x	1	3	9	12	20
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Q.2:

(a) Fit a straight line to the following data:

x	0	1	2	3	4
y	1	1.8	3.3	4.5	6.3

(b) What is poisson distribution? Find the moment generating function of poisson distribution.



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Programme : M.Tech.(S.W.C.)I^{Sem}
Course Name : Advanced Soil and Water Conservation Engineering
Course Code : MT-AGS-114
Assignment No : II

Due date of submission: 23.10.2017

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) Describe the basic concept of erosion.
- (b) Describe the mechanics of wind and water erosion.

Q.2:-

- (a) Explain the steps of constructional design and maintenance of vegetated waterways.
- (b) Explain the steps of design of water harvesting structures and farm ponds.



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Programme : M.Tech.(S.W.C.)I^{Sem}
Course Name : Soil Erosion, Transportation and Sedimentation
Course Code : MT-AGS-115
Assignment No : II

Due date of submission: 23.10.2017

Instruction

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

Q.1:-

- (a) What do you mean by importance and source of sediment?
- (b) What do you mean by mechanics of sediment transport?

Q.2:-

- (a) What is deposition and estimation of transported sediments in channels and reservoirs?
- (b) Why is needed of estimation of sediment yield for a watershed?