



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

Programme : M.Tech.(A.P.F.E.)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.



MONAD UNIVERSITY HAPUR (UP)
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Programme : M.Tech.(A.P.F.E.)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.



MONAD UNIVERSITY HAPUR (UP)

Programme: M.Tech(APFE)
Course Name: FOOD PROCESSING EQUIPMENT AND PLANT DESIGN
Course code: MT-AGF-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 design considerations of processing agricultural and food products.
- (b) Explain the human factors in design and selection of materials of construction of machine.

Q.2:-

- (a) Explain the design of machinery for drying and milling.
- (b) Mention about the functional design of plant building and selection of building materials.



MONAD UNIVERSITY HAPUR (UP)

Programme: M.Tech(APFE)
Course Name: Fruits and Vegetables Process Engineering
Course code: MT-AGF-115
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) Write the composition and nutritive value of fruits and vegetables.
- (b) Define cold storage and explain the quality of storage.

Q2.

- (a) Define Dehydration. Explain the dehydration principles and methods of fruit and vegetables.
- (b) Explain the commercial canning of fruits and vegetables.