



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 : I

Due date of submission: 11.09.2017

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 $\int_0^1 \frac{dx}{1+x^2}$ by Simpson's 3/8th rule if $h = 0.25$.

(b) Find the rate of convergence of Newton Raphson method.

Q.2

a) What is the value of following missing term :

x	1	2	3	4	5
y	10	5	7	---	8

b) Find the value of $\int_0^1 \frac{dx}{1+x^2}$ 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 : I

Due date of submission: 11.09.2017

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 probability to find 52 Sundays in a year.
- (b) What is the probability to get an ace and a heart from the pack of 52 cards ?

Q.2:

- (a) Define skewness and kurtosis with examples. Also write the formulae.
- (b) What is normal distribution ? Find the moment generating function of normal 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 : I

Due date of submission: 11.09.2017

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) What is wind erosion? Explain the factor affecting of wind erosion.
- (b) “Water is a most factor for soil erosion formation”, explain this statement.

Q.2:-

- (a) How many types of run-off? Explain the factor affecting of run-off also.
- (b) “Gully Erosion”, explain it’s types and effect on soil.



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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 : I

Due date of submission: 11.09.2017

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 Sediment? Write the importance and source of sediment.
- (b) What do you mean by Rill Erosion? Explain Mechanics of soil erosion.

Q.2:-

- (a) What is integrated Water-shed management? Explain.
- (b) why is needed and importance of Water-shed management in dry Zone?