



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

Course : B.Tech.(A.G)5 Sem  
Subject Name : Engineering Managerial Economics  
Sub. Code : EAG-351  
Assignment No : I

**Due date of submission: 10.11.2016**

**Instructions**

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 number clearly on the top of the page.

**Ques. No.:-1**

- A. Define Economics and the controversy between Father Adam Smith and Lord Alfred Marshall?
- B. Diagrammatically discuss about the meaning, importance, types and law of demand?

**Ques. No.:-2**

- C. With figure define elasticity of demand, its type and degrees? Numerically support your answer?
- D. Diagrammatically discuss about an indifference curve analysis?



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Course : B.Tech.(A.G)5 Sem  
Subject Name : Design of Farm Tractor and Machinery  
Sub. Code : EAG-352  
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) Describe the Engineering Design process in farm machinery? And write the design parameters of Farm Machinery.
- (b) Describe the main factor of the selection of the material for Farm Machinery and write also the constructional detail of the M.B. Plough and Disc Plough.

**Q.2:-**

- (a) Describe the Design procedure for Mould board Plough.
- (b) Describe the Design procedure for Rasp-Bar Threshing machine

Course: EAG-353

MACHINE DESIGN I

Assignment No: 2

Due date of submission: 10/11/2016

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your Hod within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

- a.) Describe, with the help of neat sketches, the types of various shaft couplings mentioning the uses of each type.
- b.) A motor car shaft consists of a steel tube 30 mm internal dia. and 4mm thick the engine develops 10 kw at 2000 r.p.m. find the maximum shear stress in the tube when the power is transmitted through a 4:1 gearing .

Q.2

- a.) show that the efficiency of self locking screws is less than 50%.
- b.) Discuss the materials and practical applications for the various types of springs.



**DEPARTMENT OF AGRICULTURE ENGINEERING**  
**MONAD UNIVERSITY, HAPUR**

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Course: EAG-354, Refrigeration and Air conditioning

**Dated :.....**

Assignment No: II

Due date of submission: 10/11/2016

**Instructions**

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
2. Submit the responses to your HoD within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

**Q.1**

- (a) Explain Vapour absorption refrigeration system with neat sketch.
- (b) Explain Vapour compression refrigeration system with neat sketch.

**Q.2**

- (a) Explain the types of air-conditioners.
- (b) Write short notes on:
  - (i) Dry bulb temperature
  - (ii) Wet bulb temperature
  - (iii) Relative humidity
  - (iv) Adiabatic saturation



**MONAD UNIVERSITY HAPUR (UP)**  
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Course : B.Tech.(A.G)5 Sem  
Subject Name : Watershed Hydrology  
Sub. Code : EAG-355  
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) Define infiltration. and explain factor affecting of infiltration.
- (b) What is hydrograph? And explain component of hydrograph.

**Q2.**

- (a) What do you mean by unit hydrograph theory? And explain factor affecting of its. .
- (b) Define evapo-traspiration? Write to elements of weather and explain factor affecting of evaporation.



Course : B.Tech.(A.G)5 Sem  
Subject Name : Irrigation and Drainage Engineering  
Sub. Code : EAG-356  
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.

Write your Name, Programme, and Enrolment No. clearly at the top of the page

**Q.1:-**

- (a) Enlist various traditional irrigation method and describe any two of them.
- (b) Define infiltration and explain factor affecting of infiltration also.

**Q.2:-**

- (a) List the different components of the sprinkler system and describe the advantage and limitation of a sprinkler method of irrigation.
- (b) What is the necessity of draining agricultural land? Enlist that are obtained from drainage.