



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

Course : Diploma (A.G.)  
Subject Name : Irrigation & Drainage System  
Sub. Code : DAGE-351  
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 Water Requirement of Crop? Write the factor affecting of water requirement of crops.
- (b) Describe the methods of water measurement and explain unit for measuring irrigation water also.

**Q.2:-**

- (a) Define Irrigation? How many types of Irrigation Method? Explain Drip Irrigation System with a suitable diagram.
- (b) Why is needed Drainage system in crop field? How many types of Drainage System used in Agriculture Field? Explain every one with a suitable diagram.

**Course:–Estimating & Costing**

**Assignment No: 1**

**Subject code : 352**

**Due date of submission: 10.11.2016**

**Instructions:**

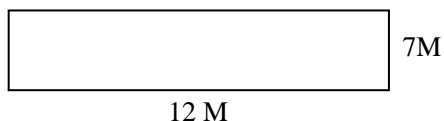
1. Write the responses to the assignment in your own handwriting.
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**Q.1**

a) Find out the quantity of bricks in a wall if Wall length 11M, Width=.230MM, Height =3.2M and Brick Size 230MMx115MMx115MM

b) Find out the area for fig -  $M^2$ ,  $MM^2$ ,  $Ft^2$ ,  $Yd^2$

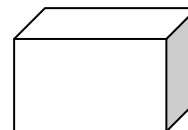
क्षेत्रफल की गणना कीजिये- वर्ग मी, वर्ग मिमी, वर्ग फुट, वर्ग गज



**Q.2**

a) Find out the volume for fig -  $M^3$ ,  $Ft^3$ , Where  $L=13M$ ,  $B=5M$ ,  $H=3M$

चित्र के लिए आयतन ज्ञात कीजिये – घन मी, घन फुट



b) Change following (परिवर्तित कीजिये): -

12 मी - मिमी, गज, फुट, सेमी, किमी, इंच

21 वर्गमी – वर्ग मिमी, वर्ग सेमी, वर्ग किमी, वर्ग गज, वर्ग फुट, वर्ग इंच

18 घनमी – घन मिमी, घन गज, घन फुट

**Course:–Estimating & Costing**

**Assignment No: II**

**Subject code: 352**

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**Q.1**

- a) Calculate the weight of steel for 10mm dia. and 12 M length.

12 मीटर लंबाई और 10 मिमी व्यास के इस्पात का वजन ज्ञात कीजिये I

- b) Calculate the cost of concrete required for the size of cube 8Mx4Mx3M, when 1M<sup>3</sup> concrete price is 6000 Rs.

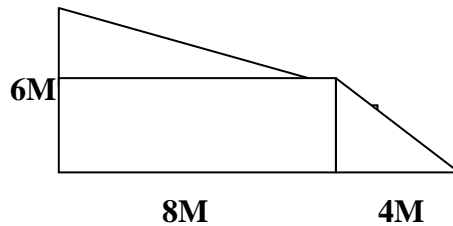
8Mx4Mx3M के घन के लिए कंक्रीट का मूल्य ज्ञात कीजिये जबकि 1 घन मी कंक्रीट का मूल्य 6000 रुपए हो I

**Q.2**

- a) Write the formulae of following: सूत्र लिखिए:

- I. Rectangle Area आयत का क्षेत्रफल
- II. Triangle Area त्रिभुज का क्षेत्रफल
- III. Circle Area वृत्त क्षेत्रफल
- IV. Square Area वर्ग का क्षेत्रफल

- b) Find out the area for following figure: निम्न आकृति के क्षेत्रफल लिए की गणना कीजिये





## MONAD UNIVERSITY HAPUR (UP)

Course : Diploma (A.G.)  
Subject Name : soil and water conservation  
Sub. Code : DAGE-353  
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) Explain kinds of soil erosion due to water.
- (b) Write the effect of soil erosion due to water.

Q.2:-

- (a) What do you mean by infiltration and explain the method of increasing infiltration.
- (b) Explain control of soil erosion due to wind.



## MONAD UNIVERSITY HAPUR (UP)

Course : Diploma (A.G.)  
Subject Name : Machine Design I  
Sub. Code : EAG-353  
Assignment No : II

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.



## MONAD UNIVERSITY HAPUR (UP)

Course : Diploma (A.G.)  
Subject Name : Post Harvesting Engineering  
Sub. Code : DAGE-354  
Assignment No : II  
Due date of submission: 10.11.2016

### Instruction

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2. Submit the responses to your HOD within the due date.
3. Write your Name, Program me, and Enrolment No. clearly at the top of the page.

### Q.1:-

- (a) Define storage and write the losses in grain due to insects.
- (b) What is milling operation? And explain factors affecting in breaking in solids.

### Q.2:-

- (a) What is drying? And explain sun and mechanical drying .
- (b) Write about steps involved in estimation of average size.