



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY,  
JAMSHORO.

ID.No./Seat No.

**SECOND TERM FIRST YEAR (2<sup>ND</sup> TERM) B.E.(ELECTRICAL) REGULAR  
EXAMINATION 2009 OF 09-BATCH.**

**BASIC CIVIL ENGINEERING**

Dated: 15-12-2009.

Time Allowed: 03 Hours.

Max.Marks 80

NOTE: ATTEMPT ANY FIVE QUESTIONS. ALL QUESTIONS CARY EQUAL MARKS.  
ASSUME YOUR OWN DATA WHERE NECESSARY. R IS YOUR ROLL NO.

**Q.No.**

01 (a) In chaining a line you come across a found, tall building & a hill, describe how would you continue the line with the chain only.

(b) The Length of a line measured with a Gunter's chain was recorded as 3200 links. The same when measured with a 100 ft chain was found to be 2120 ft. If the Gunter's chain was 0.8 link too long what was the error in the 100 ft chain.

02. (a) In chaining a line what types of obstacles come around? With the help of sketch describe the method of determining the obstructed distance in any one case.

(b) A and B are two points  $(450 + R)$  ft apart on the near bank of the river, which flows east and west. The bearing of the electric pole on the for bank as observed from A and B are  $N 50^{\circ} E$  and  $N 40^{\circ} W$ . Determine the width of the river.

03. Define bearing of the line. What are the rules for converting the W. C. B. into R.B. The following bearings were observed in running a compass traverse. Calculate the

Line	AB	BC	CD	DA
Fore Bearing	$45^{\circ} 15'$	$123^{\circ} 15'$	$181^{\circ} 0'$	$289^{\circ} 30'$
Back Bearing	$225^{\circ} 15'$	$303^{\circ} 15'$	$1^{\circ} 0'$	$109^{\circ} 30'$

interior angles.

04. The following consecutive readings were taken with an auto level and a 5m leveling staff on a continuously sloping ground.

1.747, 2.736, 3.801, 4.013, 4.834, 0.829, 2.123, 3.007, 3.648, 4.902, 1.157, 2.148, 3.505, 4.154.

The reduced of the first point was  $(200 + R)$  m. Calculate the R.Ls of other points using any one method. Also determine the vertical angle line joining first and the last point.

05. Draw working plan, elevation and cross sectional elevation of a class room  $5m * 3m$ . constructed by load bearing structure method. All walls are 0.3 m thick and foundation of  $90 cm * 100 cm$  having stepped shape.

06. Develop a working plan for a house to be constructed on a plot of 200 sq. yards. Assume all the necessary details by yourself.

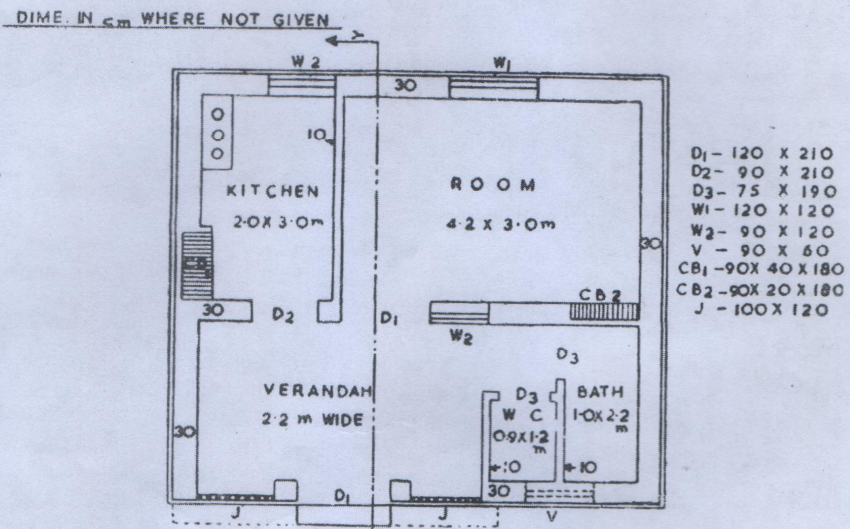
07 Draw the plan and section of the following.

(a) Raft Foundation (b) Dog legged Stair Case (c) RCC Lintel

Cont'd on P/-2....



08 What are the different purposes for which a building is to be used, give requirements of a good residential building.



PLAN  
Figure-1

-----THE END-----