Diploma in Electrical and Mechanical Engineering

Term-End Examination

June, 2011

BCE-025: ELEMENTARY CIVIL ENGINEERING

ime	: 2	2 hours			Maximum Marks: 70			
lote	1	question equal m	s out of questions	no. 2 to	Attempt any four more 7. All questions carry per with the help of neat			
•	Choose the correct alternative. 7x2							
	(a)	India	Indian Railways are divided into:					
		(i)	nine zones	(ii)	sixteen zones			
		(iii)	seven zones	(iv)	twelve zones			
	(b)		The bearing capacity of soil goes on increasing as the depth of foundation:					
		(i)	increases	(ii)	decreases			
		(iii)	remains same	(iv)	none of the above			
	(c)	The	The strongest bond in brick work is:					
		(i)	Flemish Bond	(ii)	Strecher Bond			
		(iii)	English Bond	(iv)	Header Bond			

	strength criteria of :						
	(i)	40 kN/m^2	(ii)	40 N/m^2			
	(iii)	40 N/cm ²	(iv)	40 N/mm ²			
(e)	Indian Standard Medium Weight Beam represented as :						
	(i)	ISMB	(ii)	ISHB			
	(iii)	ISWB	(iv)	ISLB			
(f)	The suitable door for entrance in an acconditioned building is a :						
	(i)	louvered door	(ii)	revolving door			
	(iii)	collapsible door	(iv)	swinging door			
(g)	Runway is usually oriented in the direct of :						
	(i)	Head wind	(ii)	Cross wind			
	(iii)	Prevailing wind	(iv)	Wind			

M 40 grade of concrete is judged by the

- (a) Describe the importance of Irrigation
 Engineering. Also write the different methods of irrigation system.
 - (b) Classify different types of building as per National Building code of India, 1970.

(d)

- 3. (a) Explain in brief soil phases. Why soil is called as three phase system? 5+2=
 - (b) Explain the procedure of determining the width and depth of shallow foundation.
- 4. (a) Explain the various points to be observed while supervising the stone masonry.
 - (b) Briefly describe the different methods of damp proof treatment.
- 5. (a) What do you mean by concrete? Explain the advantages and disadvantages of concrete.
 - (b) Draw the process diagram of concrete. Explain various operation in brief. 3+4=7
- **6.** (a) Explain the construction procedure of concrete roads.
 - (b) Explain the various features to be considered while locating a door in a room.

 $4x3\frac{1}{2}=1$

- 7. Write short notes on *any four* of the following:
 - (a) Bond in Brickwork
 - (b) Bleeding of concrete
 - (c) Built up sections
 - (d) Airport Layouts
 - (e) Plaster in three coats