DIPLOMA IN CIVIL ENGINEERING

Term-End Examination December, 2011

BCE-043: CONSTRUCTION TECHNOLOGY-II

Time: 2 hours Maximum Marks: 70

Note: Question **No. 1 is compulsory**. Answer any four questions from the remaining part. All questions carry equal marks.

1. Choose the correct alternative :

2x7 = 14

- (a) CPM Stands for
 - (i) Critical Path Method
 - (ii) Construction Path Method
 - (iii) Control Path Method
 - (iv) None of these
- (b) Low fire load is
 - (i) Less than 1.15×10^6 kJ/m²
 - (ii) 1.15×10^6 to 2.30×10^6 kJ/m²
 - (iii) 2.30×10^6 to 4.60×10^6 kJ/m²
 - (iv) None of these
- (c) Steel is strong in
 - (i) Tension
 - (ii) Compression
 - (iii) Neither (i) nor (ii)
 - (iv) Both (i) and (ii)

(a)	ACOUSTICS IS		
	(i)	Science of temperature	
	(ii)	Science of ventilation	
	(iii)	Science of sound	
	(iv)	None of these	
(e)	Acce	eptable noise level in dB for schools/	
	hospitals/small offices is		
	(i)	25 to 30	
	(ii)	40 to 45	
	(iii)	50 to 60	
	(iv)	None of these	
(f)	Minimum rate of fresh air supply for bed		
	room and drawing room is		
	(i)	100 m ³ /person/hr.	
	(ii)	50 m ³ /person/hr.	
	(iii)	30 m ³ /person/hr.	
	(iv)	None of these	
(g)	Jaw crushers are best for		
	(i)	Primary crushing	
	(ii)	Secondary crushing	
	(iii)	Both (i) and (ii)	
	(iv)	None of these	

(a)

(b)

2.

What is supervision? What are its aims?

What is the aim of maintaining buildings?

7

3.	(a)	What are the constraints in the maintenance of buildings?	7			
	(b)	Explain fire grading of materials.	7			
4.	Desc	cribe usual steel sections used as :	14			
	(a)	Compression members				
	(b)	Tension members				
	, (c)	Flexural members giving suitable sketches.				
5.	(a)	Explain briefly any two characteristics of a good audible sound.	7			
	(b)	Describe briefly the requirements of a good ventilation system of a building.	7			
6.	(a)	List the various types of crushers. Explain any two.	7			
	(b)	Discuss any two ground improvement techniques for foundation.	7			
7.	Wri	Write short notes on <i>any four</i> of the following:				
	(a)	Measurement Book 4x37	₂ =14			
	(b)	Fire load				
	(c)	Built up steel sections				
	(d)	Sheepfoot rollers				
	(e)	Site organisation				