DIPLOMA IN CIVIL ENGINEERING

Term-End Examination June, 2012

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) Class 'A' fire involves
 - (i) Gases
- (ii) Liquids
- (iii) Solids
- (iv) All these
- (b) A section is designated as ISJB. It is:
 - (i) BIS prescribed joist beam
 - (ii) BIS prescribed junior beam
 - (iii) BIS prescribed jointed beam
 - (iv) None of these
- (c) Sound velocity through brick and concrete is about:
 - (i) 340 m/s
 - (ii) 4000 m/s
 - (iii) 40 to 150 m/s
 - (iv) None of these

		building is:		
		(i) 25 to 30		
		(ii) 45 to 55		
		(iii) 60 to 65		
		(iv) None of these		
	(e)	Sheep foot roller is used for compaction of :		
		(i) Sandy soil		
		(ii) Clayey soil		
		(iii) Silty soil		
		(iv) Crushed aggregate		
	(f)	Additive used for quick setting of concrete is :		
		(i) Retarder		
		(ii) Water reducer		
		(iii) Accelerator		
		(iv) All these		
	(g)	Under-reamed piles are suitable for :		
		(i) Transmission towers		
		(ii) Multi-storied buildings		
		(iii) Flyovers		
		(iv) All the above		
2.	(a)	What do you understand by supervision during construction ?	7	
	(b)	Explain about any two documents which are maintained at site by a J.E.	7	
BCE-043		2		

(d) Acceptable noise level in dB for residential

3. (a) What are the steps for planning annual 7 maintenance of MES assets? role can a user play in the (b) What 7 maintenance of a building? 4. (a) What do you understand by fire protection / 7 proofing of a building? Briefly describe fire resisting properties of (b) 7 (i) Concrete (ii) Steel. Write a detailed note on acoustical defects in a 5. 14 building and commonly adopted methods of removing them. 6. (a) Explain riveted connections with neat 7 sketches. Describe in brief the artificial methods of (b) 7 ventilation of a building 7. Write short notes on any four of the following: $4x3\frac{1}{2}=14$ (a) Raising standard of construction work (b) Safety measures in construction work (c) Hot mix plant (d) Modular bricks (e) Precast framed construction