No. of Printed Pages: 4

BICEE-005

DIPLOMA IN CIVIL ENGINEERING (DCLEVI / DELVI)

Term-End Examination

00482

December, 2017

BICEE-005 : CONSTRUCTION SUPERVISION AND BUILDING MAINTENANCE

Time : 2 hours

Maximum Marks: 70

- Note: Question no. 1 is compulsory. Attempt four more questions from the remaining questions no. 2 to 8. All questions carry equal marks.
- 1. Choose the correct answer for the following questions from the four alternatives : $7 \times 2=14$
 - (a) The age of a tree can be known by examining
 - (i) Cambium layer
 - (ii) Annual rings
 - (iii) Medullary rays
 - (iv) Heartwood

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- (b) The property of ingredients to separate from each other while placing of concrete is called
 - (i) Segregation
 - (ii) Compaction
 - (iii) Shrinkage
 - (iv) Bulking
- (c) Snowcem is a
 - (i) Distemper
 - (ii) Synthetic enamel paint
 - (iii) Primer
 - (iv) Waterproof cement paint
- (d) The amount deposited with the department as a guarantee of the tender is known as
 - (i) Bank guarantee
 - (ii) Earnest money
 - (iii) Security deposit
 - (iv) Caution money
- (e) The purest form of iron is
 - (i) Mild steel
 - (ii) Cast iron
 - (iii) High carbon steel
 - (iv) Wrought iron

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- (f) The age of a tree can be estimated by the
 - (i) Height of the tree
 - (ii) Diameter of bark
 - (iii) Number of rings on the bark section
 - (iv) Number of heartwood rings
- (g) Workability of concrete is directly proportional to
 - (i) Aggregate cement ratio
 - (ii) Time of transit
 - (iii) Grading of aggregate
 - (iv) All of the above
- 2. (a) Why is there a need for inspection and quality control in a project ? Explain in detail. 7
 - (b) Explain interpolation of drawings.
- 3. (a) What do you mean by Measurement Book? Show a page of a measurement book to support your answer.
 - (b) What do you mean by Labour Report ? Sketch out a page of a labour report to support your answer.

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4.		e down the significance of maintaining rent site registers. Discuss any two in detail.	14
5.	(a)	What do you mean by termite-proof buildings ? Write down the various chemicals used to make a building termite proof.	7
	(b)	What do you mean by pointing and plastering ? Also write down the defects in plastering.	7
6.	(a)	How can we detect various defects in a sewer line ?	7
	(b)	Write down the various defects in timber.	7
7.	Writ	e notes on the following : $2 \times 7 =$	=14
	(a)	Pre-cast Concrete	
	(b)	Formwork	

8. What do you mean by seasoning of timber ? Explain various methods of seasoning of timber. 14

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