## Total No. of printed pages = 4 CT-405/BC&MCED/4th Sem/2014/N

## BUILDING CONSTRUCTION, MAINTENANCE AND CIVIL ENGINEERING DRAWING

Will Will a Reserved

Full Marks - 70

Pass Marks – 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No.1 and any four from the rest.

- 1. Answer the following questions: 10
  - (i) For what purpose trestle scaffolding is used?
  - (ii) At what circumstances combined footing of trapezoidal shape is constructed?
  - (iii) Name the arch which comes under three centred arch.
  - (iv) What are the two different stairs used for emergency purpose?

[Turn over

(v).	On which part of the building dormer window is provided?
(vi)	What is newel stair?
(vii)	For what purpose retaining walls are constructed?

- (viii) For what kind of structures well foundation is provided ?
- (ix) Upto what span length stone arches can be used effectively?
- (x) Which one of the two is considered to be shallower, pier foundation on well foundation?
- 2. (i) Define substructure and superstructure. 4
  - (ii) Explain trapezoidal combined footing and mat footing with neat sketches. 5
- (iii) What are the basic functions of foundation?
- 3. (i) What do you understand by bonds in brick work?

	(ii)	What are the various rules adopt bonding?	ed in brick 8
	(iii)	With the help of a suitable diagram following:	n, show the
		(a) Stretcher	
	91	(b) Header	
		(c) Lap	
		(d) Perpend.	n (iv)
4.	(i)	Define arch. Classify arch according	ng to shape.
	(ii)	With the help of a suitable diagran various elements of an arch.	n, show the
5.	(i)	Classify doors on the basis of arracomponents. Describe any two sketches.	
	(ii)	Define roofs and what are the bas ments of a good roof?	sic require-
6.	Writ	te short notes on :	15
	(a) ]	Pitched roof	
	(b)	Combined king post and queen po	ost truss
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6.