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SET - 1

	II B. Tech I Semester Supplementary Examinations, September – CONSTRUCTION MATERIALS AND MANAGEMENT (Civil Engineering)	2014
Tin	ne: 3 hours	Max. Marks: 75
	Answer any FIVE Questions All Questions carry Equal Marks	
1.	a) Enumerate the various properties of good building stones in relation to their requirements.b) Describe briefly the tests to which bricks may be put before using them for	
	purpose	(8M+7M)
2.	a) What is English and Flemish bond? Explain with neat sketches.b) Explain the structure of Timber by drawing the cross section of a tree.	(8M+7M)
3.	a) Discuss the various ingredients of Lime.b) What is hydration of cement? Explain the importance of cement compounds	s in the strength. (7M+8M)
4.	a) Explain lean to roof, coupled roof and King post truss.b) What is damp proofing? What are the materials used?	(8M+7M)
5.	a) Discuss the terms bond strength and moisture content of aggregate.b) Explain the Marshall's method of bituminous mix design.	(8M+7M)
6.	a) What are the tests on geogrids and geotextiles? Explain in detail.b) Explain resources allocation.	(8M+7M)
7.	a) What are the functions (phases) of project management?b) What is a float? Explain various floats and bring out the relation between the	em. (7M+8M)
8.	 A project consists of six activities (jobs) designated A to F with the follow Draw the network diagram. i) A is the first job to be performed. ii) B and C can be done concurrently, and must follow A iii) B must precede D iv) E must succeed C but cannot start until B is complete v) The last operation F is dependent on completion of both. 	ving relationships (15M)

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II B. Tech I Semester Supplementary Examinations, September – 2014 CONSTRUCTION MATERIALS AND MANAGEMENT

(Civil Engineering)

Tin	ne: 3 hours	Max. Marks: 75
	Answer any FIVE Questions All Questions carry Equal Marks	
1.	a) What do you understand by rock forming minerals? Explain in brief the phy- of Felspar, Mica and Gypsum group of minerals	sical properties
	b) Discuss the characteristics of first class building bricks and indicate how the by the nature of clay used.	ey are influenced (8M+7M)
2.	a) Explain the purpose and importance of partition walls in a building.b) What is meant by natural reasoning of wood? What is its purpose?	(7M+8M)
3.	a) Draw a flow diagram for lime manufacturing.b) Explain setting and fineness of cement.	(7M+8M)
4.	a) Explain pitched roof, flat roof and curved roof.b) What are the constituents of Paint? Explain various types of paints.	(8M+7M)
5.	Briefly describe the following tests on aggregatea) Specific gravity testb) Crushing testc) Impact test	(5M+5M+5M)
6.	a) Explain functions and applications of geosynthetics.b) Discuss the direct and indirect costs of a project.	(7M+8M)
7.	a) Discuss about planning scheduling, monitoring and controlling of projects.b) Explain Fulkerson's rule of numbering events and activities in a project.	(8M+7M)
8.	Write short notes on a) Cost time optimisation b) Event slack	
	c) Network updating	(5M+5M+5M)

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	II B. Tech I Semester Supplementary Examinations, September – 2014	
	CONSTRUCTION MATERIALS AND MANAGEMENT	
Tin	ne: 3 hours (Civil Engineering) Max	. Marks: 75
	Answer any FIVE Questions All Questions carry Equal Marks	
1.	a) Discuss the classification of rocks based on Geological formation.	
	b) What is quarrying of stones? Give list of tools commonly used in quarrying.	(8M+7M)
2.	a) Explain the cavity wall construction with neat sketches and state why and when tb) What is artificial seasoning of wood? Discuss any two methods with neat sketches	*
		(7M+8M)
3.	a) Explain the terms: i) Poor lime ii) hydraulic lime iii) slaked lime iv) fa	t lime
	b) Describe how to test the quality of cement at the construction site.	(8M+7M)
4.	a) Explain various methods of modern flooring.	
	b) Write short notes on form work and scaffolding.	(7M+8M)
5.	a) Explain: i) Properties of good coarse aggregate ii) Fineness modulus	
	b) What is bulking of sand and what are its effects?	(8M+7M)
6.	a) What is crashing for optimum cost? Define cost slope? How do you determine it	?
	b) What is a geo membrane? Explain?	(8M+7M)
7.	a) What is a bar chart? Explain with the help of suitable example the method of pre- chart.	paring a bar
	b) Discuss in detail PERT and CPM networks. List out the differences between the	n.

8. Activity X is followed by activity Ywhich in turn is followed activity Z.The direct cost of these activities in relation to the choice of feasible duration table is given below. Find out the minimum possible direct cost for a total duration of 21 days, taking together all the three activities. (15M)

	Activ	Activity X Activity Y		Activity X Activity Y Activity			vity Z		
Duration in days	7	6	5	8	7	6	9	8	7
Direct cost in Rs	12	14	15	20	23	27	40	42	45

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Co	de No: R21012	R10	(SET - 4)
		ster Supplementary Examinations, September - JCTION MATERIALS AND MANAGEMENT (Civil Engineering)	- 2014
Tin	ne: 3 hours	(Civii Liigineering)	Max. Marks: 75
		Answer any FIVE Questions	
		All Questions carry Equal Marks	
1.	a) Describe any two metho	ds of brick manufacturing with neat sketches.	
	b) Discuss the use of non-f	errous metals as building materials.	(8M+7M)
2.	a) Explain Rubble and Ash	lar Masonry with neat sketches.	
		nber? What are its objectives?	(8M+7M)
3.	a) Describe one method of	lime manufacturing with neat sketch.	
		s of cement and their properties.	(7M+8M)
4.	a) Explain various types of	staircases and Arches.	
	b) What is water proofing?	What are the materials used.	(7M+8M)
5.	a) What are the sources of	fine aggregates? Give the characteristics and uses	of sand.
	b) Explain Road note no.4	method of grading of fine and coarse aggregates.	(7M+8M)
6.		e and Geo membranes? Discuss their uses and func	
	b) Explain resource levellin	ng.	(8M+7M)
7.	a) Define 'Event' and 'Act	ivity'. Bring out the differences between them.	
	b) For a given activity the	optimistic time, pessimistic time and most probable	e time estimates
	are 5,17 and 8 days resp	pectively .Find out the expected time in days.	(6M+9M)
8.	Write short notes on:		
	a) Network planning		
	b) Computation of total flo		
	c) Optimum cost of a proje	ert -	(5M+5M+5M)

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