Enrollment No:	Exam Seat No:	

C.U.SHAH UNIVERSITY Winter Examination-2015

Subject Name: Building Material

Subject Code: 2TE03BMT1 **Branch**: Diploma(Civil)

Time:2:30 To 5:30 Semester: 3 Date :3/12/2015 Marks:70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

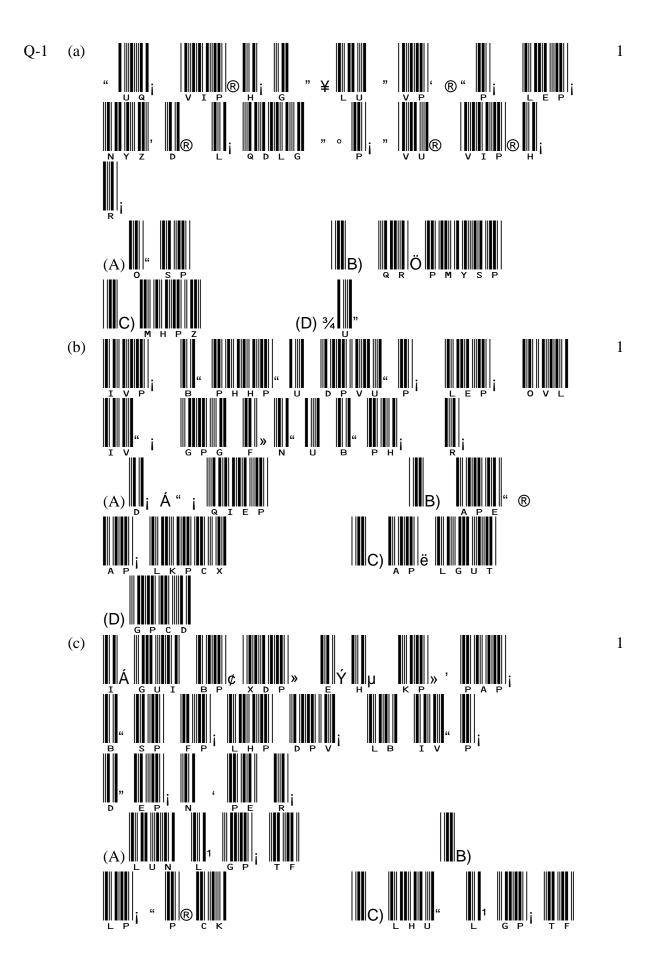
Q-1	(a)	Which of the following shows the chemical property of a material?	1
X -	(41)	(A) Specific Gravity (B) Porosity (C) Corrosion (D) Creep	_
	(b)	Which of the following constituents make the brick Red?	1
	(-)	(A) Magnesia (B) Iron oxide (C) Alkalies (D) Lime	
	(c)	Which brick is used for breaking joints in English bond?	1
	()	(A) King closer (B) Cornice (C) Queen closer (D) Voussiors	
	(d)	Which one of the following constituents of brick clay is responsible for	1
	, ,	shrinkage of brick?	
		(A) Silica (B) Alumina (C) Lime (D) Magnesia	
	(e)	Which one of the following stones is more fire resistive?	1
		(A) Laterite (B) Lime stone (C) Sand stone (D) Gneiss	
	(f)	Which one of the following stones is most suitable for partition wall?	1
		(A) Slate (B) Granite (C) Dolerite (D) Synite	
	(g)	Which one of the following stone is metamorphic?	1
		(A) Marble (B) Granite (C) Lime stone (D) Sand stone	
	(h)	Which one of the following is not the ingredient of varnish?	1
		(A) Fillers (B) Driers (C) Solvents (D) Resinous material	
	(i)	Which colour should be used for painting electric poles?	1
		(A) Bronze (B) Casein (C) Asbestos (D) Aluminium	
	(j)	For cement Le-chatelier apparatus decides	1
		(A) Strength (B) Setting time (C) Permeability (D) Soundness	
	(k)	It is suitable for mass concreting.	1
		(A) Rapid hardening cement (B) Low heat cement	
		(C) Quick setting cement (D) Hydrophobic cement	
	(1)	Which type of artificial wood is considered best for making furniture?	1
		(A) Hard board (B) Block board (C) Compreg (D) Batten board	
	(m)	Which one of the following limes is suitable for plaster work?	1
		(A) Artificial hydraulic lime (B) Hydrated lime	
		(C) Quick lime (D) Eminently hydraulic lime	
	(n)	Which lime is suitable for the preparation of mortar for construction of	1
		thick wall?	
		(A) Hydraulic lime (B) Hydrated lime (C) Fat lime (D) Quick lime	



Attempt any four from Q-2 to Q-8.

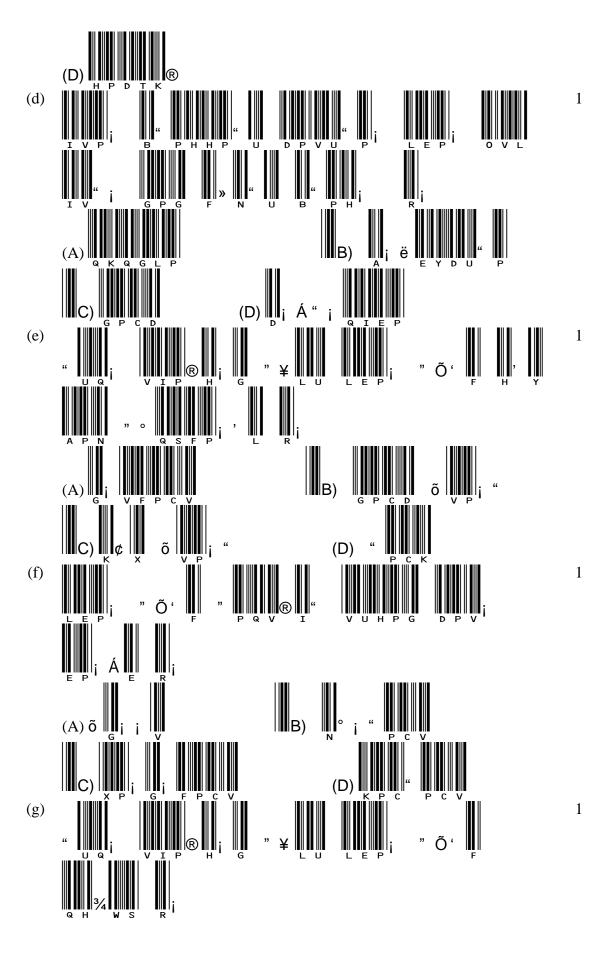
Q-2	(a)	What is moulding? Explain different methods of moulding?	7
Q-3	(b) (a)	Explain various types of cement. State the chemical composition of ordinary Portland cement and explain	7 7
Q J	(a)	the importance of each component.	,
	(b)	What is seasoning of timber? Give names of various methods adopted for seasoning and explain any one of them in detail.	7
Q-4	(a)	With neat sketch explain Vicat apparatus.	5
	(b)	State characteristics of ideal paints.	5 5
	(c)	Distinguish between fat lime and hydraulic lime.	4
Q-5	(a)	Discuss classification of rocks in details.	7
	(b)	Explain the process of manufacturing of brick.	7
Q-6	(a)	Write short note on thermal insulating material.	5
	(b)	Write short note on structural properties of steel.	5
	(c)	Explain different types of paints.	4
Q-7	(a)	Explain requirements of good building stone.	7
	(b)	What is glass? Classify the glass with their uses.	7
Q-8	(a)	Explain various tests for bricks.	7
	(b)	Write full names for the following.	7
		(a) ISMB, (b) ISHC, (c) ISMC, (d) ISA, (e) ISLT, (f) ISLB, (g) ISLC	





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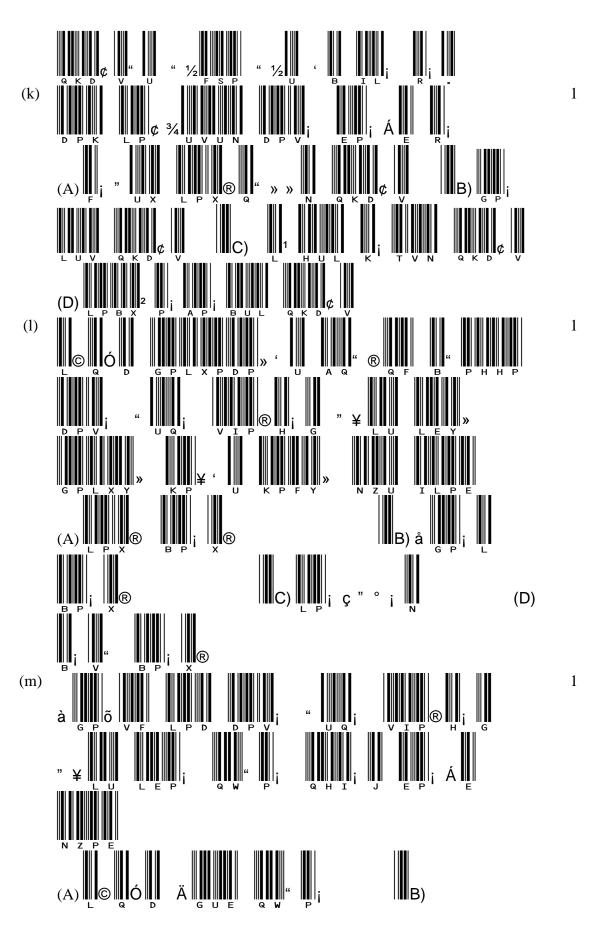
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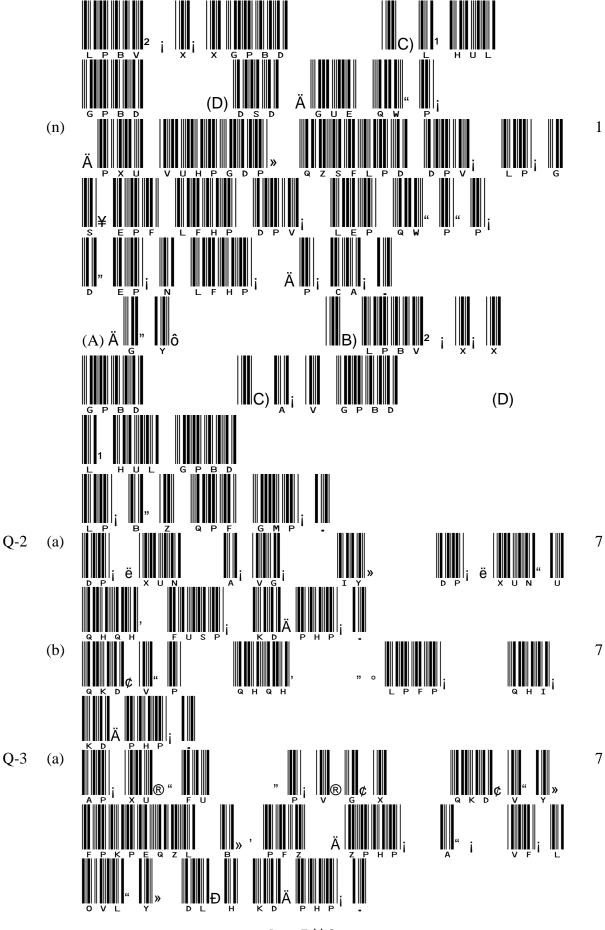
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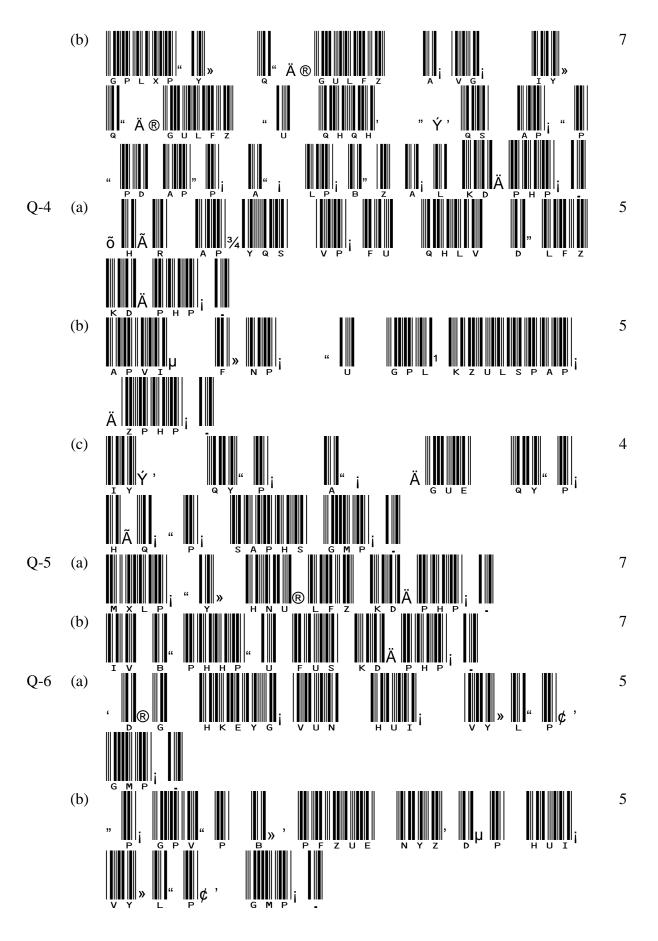
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