CIVIL ENGINEERING HINE, 2006

BUILDING MATERIALS, CONSTRUCTION, EARTHWORK AND ESTIMATION

(Sketch to accompany)

(Maximum marks: 100)

[Time-3 hours



PART-A

	T A	
	I Answer in one or two sentences:	Marks
	1. Define sedimentary rocks.	
	2. What is meant by workability of correct a	
	Distinguish between Tree and I on	
	 4. What do you understand by damp proofing in building? 5. Define a lintel. 	
	5. Define a lintel.	
	6. Distinguish between Paint and Varnish.	
	7. Write the general prismoidel 6.	
	7. Write the general prismoidal formula for calculating volumes. 8. Write the units of P.C.C. and Brick masonry. 9. Define the bearing area.	es.
	9. Define the bearing capacity of soil.	
	10. Define ceiling.	
	(10×2)	=20)
	PART_B	
II	(Answer five full questions)	
11	(a) How stones are chemically classified?	
	(b) Explain briefly the manufacture of bricks.	5
	(c) Name any five defects of plastering.	6
	OR .	5
III	(a) Briefly explain the manufacture of	
	(a) Briefly explain the manufacture of cement by dry process.	6
	(b) What are the characteristics of an ideal damp proofing	77.7
	(c) Write any four applications as	6
IV	(c) Write any four applications of P.V.C. in building industry.	14
1.7	six requirements of foundation	
	that are the precautions to be taken in brick	4
	(c) Name any six classifications of windows.	6
	OR	6
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V (a) Write any four requirements of a good roof.	
(b) Why pointing is necessary? (give six points)	
(c) Briefly explain the method of pointing	
VI (a) What are the characteristics of good stone?	
The inguish between Foundation and Superstructure	
of that are the points to be considered	
position of stair case?	
OR AND	
the method of painting a new door	
the classifications of giass.	
methods of preservation of timber.	
and requirements of a good point 2	
(b) Draw the sketches of 'dovetail' and 'lan' in the	
(c) Write the methods of increasing the bearing capacity of soil.	
UR UR	
and requirements of a good flow	
the lightests of a paint?	
(4) Define the following:	
 Gabled roof Balancing in earthwork 	
/0.0	
X The given figure I shows the plan of a building. Calculate	
(a) Random rubble masonry for foundation and basement.	
(b) R.C.C. roof in 10 cm thick.	
OR.	
XI A road is in embankment, having uniform longitudinal slope of	
I in 150. The formation width is 4 metre and side slope is 1 in 2.	
The height of formation at starting point is 6 metre. Calculate	
the quantity of earthwork for a length of 500 metre of road using trapezoidal formula taking sections at 20 metre interval.	
sections at 20 metre interval. 16	
(മലയാള പരിഭാഷ)	
പരർട്ട°— എ	
(ഒന്നോ രണ്ടോ വാക്യങ്ങളിൽ ഉത്തരമെഴുതുക)	
I 1. സെഡിമെൻററി റോക്ക° നിർവ്വചിക്കുക.	
2. കോൺ[കീററിൻെറ വർക്കബിലിററി എന്നാലെന്ത [്] ?	
3. മരവും തടിയും തതിലുള്ള വയുശ്യാക്കാര്	
3. മരവും തടിയും തമ്മിലുളള വൃത്യാസമെന്ത [ം] ?	