Enrolment No.



HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL MID SEMESTER EXAMINATION, SEPTEMBER-2016

Subject Code: 2170609 Date: 24/9/16

Subject Name: IE Sem: 7TH

Time: 10:00 TO 10:50 Total Marks: 20

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Inst	rnc	ทาก	ns:

1. Attempt all questio	ns.
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- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

QUE.1	(A) (B)	Write any 2 benefits of irrigation engineering and 2 ill effects of irrigation Explain 'Duty' and 'Delta'. Obtain the relationship between them.	3
QUE.2	(A)	Explain (i) Culturable command area (ii)Silt Excluder (iii) Divided wall	3
	(B)	Enlist different methods of irrigation and write Any One merits and demerit of each method.	4
		OR	
	(B)	Describe function of (i) divide wall(ii) silt excluder (iii) under sluice portion in diversion head work	4
QUE.3	(A)	Explain Balancing depth of canals	3
	(B)	List out limitations of Bligh's creep theory and Determine thickness of floor at 10m and 15m from u/s end if b=28m, d1=5m,d2=6m and H=4m.	4
		OR	
	(A)	Describe causes and remedial measures of water logging.	3
	(B)	The culturable command area of a water course is 1500 hectare. Intensities of irrigation of sugarcane and wheat crops is 25 % and 50 % respectively. the duties for the crops at the head of the water course are 700 hectare /cumec and 1750 hectares /cumec respectively. Find the discharge required at head of water course.	2