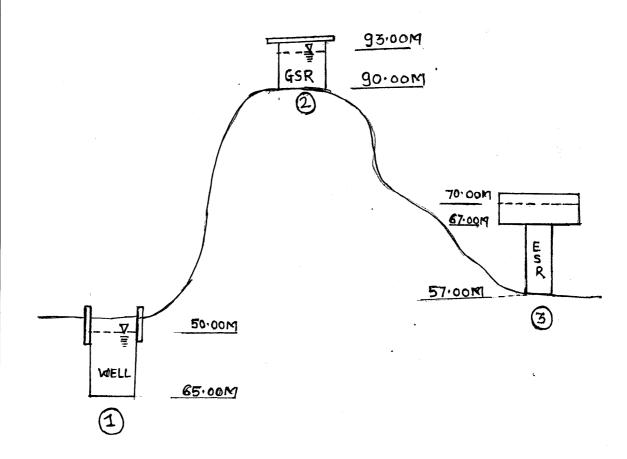
MAHARASHTRA JEEVAN PRADHIKARAN

Examination Conducted by MAHARASHTRA ENVIRONMENTAL ENGINEERING TRAINING & RESEARCH ACADEMY (MEETRA) NASHIK

Professional Examination of A.E.-I /SDE/SDO (Civil)October 2017

	(CIVII)OCTOBEL 2017					
Subject : Practical Drawing (Civil)						
Date	e : 13/10/2017 Time : 8.00 To 13.00 Marks : -50					
Note: 1)	All Questions are compulsory.					
2)	Draw neat and clean drawing.					
3)	Figure in bracket on right hand side indicates full marks.					
4)	Marks are reserved for cleanliness.					
Question No. 1: (20)						
Prepare a detailed foundation plan of RCC Elevated Service. Reservoir of 2,00,000 lakh litres capacity. The plan is enclosed. The foundation plan shall be set up on the ground.						
Question No. 2: (10)						
Carry out the survey from given TBM & workout reduced levels for given points A, B, C,D, E. by Rise & fall method or height of collimation method. Rute out the page of field book and mention all details. Apply field check by fly leveling survey & give usual checks.						
Question No. 3: (10)						
Set up the Theodolite at point 'o' given to you and measure vertical angle AOB between A & B . Also measure vertical angle between plane of collimation & point A.						
Question No. 4: (10)						
Drav 2.00	v HGL between $1\&2$ and $2\&3$ (Residual Head $$ in each section shall be $$ M.	ž				

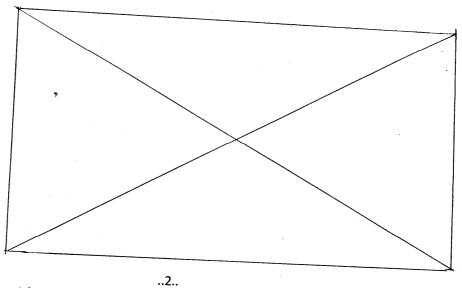




MAHARASHTRA JEEVAN PRADHIKARAN

Examination Conducted by MAHARASHTRA ENVIRONMENTAL ENGINEERING TRAINING & RESEARCH ACADEMY (MEETRA) NASHIK

(Civil)October 2017								
Subject : General Engineering (Civil) – (Oral)								
					Roll No	o. ,		
Date	:	10/10/201	L7 Ti i	me : 14	1.00 To 1	4.30 M a	rks: -75	
Note	: 1)	All Quest	ions are	compulsor	у.			
2) Use of Calculator, Log table is allowed.								
	3)					dicates full	marks.	
	4)	Use of m	obile, Lapt	top and ta	b are not	allowed.		
		estion No.	1	2	3	4	5	Total
	Mai							
	Obt	ained'			<u> </u>	<u> </u>		
	Signature of Supervisor Signature of Exami					f Examiner		
Quest	ion N	lo. 1 :-	Define t	the follow	ing terms	. (Any five)		(15)
		ous rocks. :-			Ü	. , -,		(23)
ii)	Seaso	oning of tim	nber:-					
iii)	Bitun	nen						



- iv) Setting of Cement.
- v) Hardening of Cement
- vi) Earliest starting time and latest finishing time.
- vii) Critical path in construction management
- viii) Dummy activity

Qı	3 Jestion No. 2 :-	
a)	What is the SBC of the following (7	51
i)	B.C. Soil	,
ii)	Hard murum	
iii)	Soft rock	
iv)	Hard rock	
v)	Sand	
b) i)	Write down material required for following items. (7. No.of bricks required for 1 cum. B.B. masonary	5)
ii)	Stones of 1 cum UCR masonary	
iii)	Sand for 1 cum of C.C. M-150	
iv)	Graded aggregate for 1 cum. of C.C. M-150	
v)	Water for 1 cum. of C.C. M-150	
Que a)	estion No. 3:- Fill in the blanks (15) The final setting time of Quick setting cement is	
b)	test covers the procedure for determining the quantity of	
	water required to produce a cement paste of standard or normal consisten	ıcv
	This test is conducted with the help of apparatus.	,
c)	If cement and steel are to be arranged by the contractor, then	
	% of actual cost should be added as profit of contractor in the rate anylysis In general.	
d)	For 100 cum of finished concrete the sum of total volume of dry ingredient	٠
	materials may be taken as cum. in practice	
e)	Number of standard bricks of nominal size may be taken as Nos per cum. of brickwork.	
)	is the value of dismantled materials of the structures	
	when the life is over at the end of its utility period.	

g)	is the value of th					
ы	is the value of structure or machine at the end of the utility					
	period without being dismantled.					
h)	The value of a property or structure becomes less by its becoming out of data					
	in style, in structure, in design, etc. and this is termed as					
i)	Specific weight of water = N/Cum					
j)	At sea level under normal conditions the equivalent value of atmospheric					
	pressure is m. of water					
Qu	estion No. 4:- Give long form of the following (Any 10) (15)					
a)	CDMA :					
b)	WSSO :					
c)	DWSM :					
d)	IEC :					
e)	GSM :					
f)	MLSS :					
g)	CPHEEO :					
h)	P.F. :					
i)	BOD :					
j)	D.W.F. :					
k)	UASB R :					
1)	SCADA :					
Que	stion No. 5:- Answer in short (Anythree)					
:	1) Explain Graphical method based on single city and Graphical method based on cities with similar Growth Pattern for population projection.					