



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Affiliated to AU, Approved by AICTE & Accredited by NBA)

SANGIVALASA-531162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87 Fax: 226395

[www.anits.edu.in](http://www.anits.edu.in)

Email: [hod\\_civil@anits.edu.in](mailto:hod_civil@anits.edu.in)

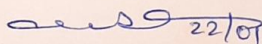
## DEPARTMENT OF CIVIL ENGINEERING

Date: 22-01-2018

### CIRCULAR

In view of the Online MOCK GATE Examinations being organised by the Department, the following faculty members are requested to make necessary arrangements for conducting the Examinations as per the following schedule. The Examination Time is 60 Minutes (01 PM – 02 PM) and shall consist of 50 Questions purely from Previous GATE / IES Examination Papers.

S.No.	SUBJECT	Coordinators	Date of Submission	Date of Exam
1	Mathematics, Aptitude and English	Prof.M.V.Subba Rao/K.Srinivas/Dr.N.Datta Sri	27-01-2018	30-01-2018
2	Geotechnical Engineering	Dr.B.N.D.Narasinga Rao	27-01-2018	31-01-2018
3	Reinforced Concrete Structures & Steel Structures	J.Vikranth/M.K.S.S.K.Chaitanya	30-01-2018	01-02-2018
4	Fluid Mechanics & Hydrology	M.Premchand	30-01-2018	02-02-2018
5	Strength of Materials & Engineering Mechanics	J.Vikranth/B.Ramana Raja	30-01-2018	03-02-2018
6	Transportation Engineering	T.Kiran Kumar	30-01-2018	05-02-2018
7	Environmental Engineering	J.Harshavardhana Reddy	30-01-2018	06-02-2018
8	Structural Analysis	B.Ramana Raja	30-01-2018	07-02-2018

  
(Dr.B.N.D. Narasinga Rao)

Head of the Department  
Department of Civil Engineering  
Anil Neerukonda Institute of Technology and Sciences  
Sangivalasa, Bheemunipatnam Mandal,  
Visakhapatnam - 531162



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## DEPARTMENT OF CIVIL ENGINEERING

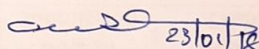
Date: 23-01-2018

### CIRCULAR


This is inform all the students that GATE Offline Mock Examinations will be conducted in the department keeping in view of the Gate exam of 2018. The exams will be conducted as per the following schedule.


S.No.	SUBJECT	Date of Exam
1	Mathematics, Aptitude and English	30-01-2018
2	Geotechnical Engineering	31-01-2018
3	Reinforced Concrete Structures & Steel Structures	01-02-2018
4	Fluid Mechanics & Hydrology	02-02-2018
5	Strength of Materials & Engineering Mechanics	03-02-2018
6	Transportation Engineering	05-02-2018
7	Environmental Engineering	06-02-2018
8	Structural Analysis	07-02-2018


All the students are advised to prepare thoroughly and attend the Examinations without fail. Sri.T.Kiran Kumar, IV Civil Class Teacher, may be contacted for any further information.


  
(Dr.B.N.D. Narasinga Rao)


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
Cc: IV Civil   
All Teaching Staff  
Principal  
Notice Board


~~PK~~  
J. Vikranth - 


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
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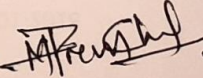
PURS -  25/1/18


Ch.Vined - 


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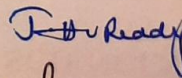
BDD - 


PVR - 

MPC - 

KSN - 

Ch.S - 

JHR - 

MNL - 

  
23/1/18



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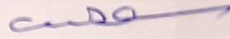
Email: [hod\\_civil@anits.edu.in](mailto:hod_civil@anits.edu.in)

Date: 09-07-2018

## GATE 2018: List of Students

Sl No	Regd No	Name
1	314126508001	Allam Manideep
2	314126508002	Arji Sai Revathi
3	314126508003	Bandaru Prasanthi
4	314126508005	Birlangi Sumalatha
5	314126508007	Chigilipalli Chaitanya
6	314126508009	Chintada Naveen
7	314126508011	Dasari Vinay Kumar
8	314126508013	Dodda Rama Sai Muthu
9	314126508014	Elapanda Vinod
10	314126508015	Ganji Rakesh
11	314126508016	Goddu Neeharika
12	314126508018	Gulla Nagendra
13	314126508019	Gunnam Sri Sai Lakshmi
14	314126508020	Gurubilli Satish
15	314126508023	Karri Manikanta Reddy
16	314126508024	Kondapalli Madhu Sudhan Rao
17	314126508025	Kosara Lakshmana Rao
18	314126508026	Kuna Venkata Naga Mani Hanuman
19	314126508027	Lalam Ramesh Naidu
20	314126508028	Lankalapalli Srinivasa Raja
21	314126508029	Lodagala Venkata Anil
22	314126508030	Madabattula Sai Akhil
23	314126508032	Medida Manasa
24	314126508033	Neteti Kameshwara Rao
25	314126508034	Pachamatla Suryanarayana Raju
26	314126508036	Parimi Venkata Lalitha Pragnyath
27	314126508037	Penki Prasanth
28	314126508039	Sadapu Devaprakash Sai
29	314126508040	Sanaboyina Sarvani
30	314126508044	Sivakoti Bhavani
31	314126508045	Tammarba Ghana Siva Padal
32	314126508047	Tungala Devaki
33	314126508048	Vambaravelli Naveen Kumar
34	314126508053	Venneta Maganti
35	314126508054	Kalepu Arunkumar

36	314126508056	Shaik Kalayee Meeravali
37	314126508057	Kurmadasu Sai Sailendra
38	314126508058	Duddupudi Srinivas Rao
39	314126508059	Karri Manasa
40	314126508060	Pasila Dilleswari
41	314126508063	Nalla Prameela
42	314126508065	Mukala Pavankumar
43	314126508066	Ashok Panigrahi
44	314126508067	Gunja Leela Phani Kumar
45	314126508068	Sirugudu Bhavani

  
Dr. B.N.D. Narasing, (ao  
ME PhD FIE FIGS  
Professor & Head  
Department of Civil Engineering  
Anil Neerukonda Institute of Technology and Sciences  
Sangivlasa, Bheemunipatnam Mandal  
Visakhapatnam - 531162

DEPARTMENT OF CIVIL ENGINEERING  
GATE MODEL TEST-2018  
GEOTECHNICAL ENGINEERING

Key

31-01-2018

1. Two soil samples A and B have porosities  $n_A = 40\%$  and  $n_B = 60\%$ , respectively. What is the ratio of void ratios  $e_A:e_B$ ? **C**  
A. 2:3. B. 3:2. C. 4:9. D. 9:4.

2. The value of porosity of a soil sample in which the total volume of soil grains is twice the total volume of voids would be **D**  
A. 75%. B. 66.66%. C. 50%. D. 33.33%.

3. The void ratio and specific gravity of a soil sample are 0.65 and 2.72, respectively. The degree of saturation (in percentage) corresponding to a water content of 20% is **C**  
A. 65.3. B. 20.9. C. 83.7. D. 54.4.

4. A clayey soil with a specific gravity of 2.70 has a natural moisture content of 16% at 70% degree of saturation. What will be its water content, if after soaking, the degree of saturation becomes 90%? **20.57%**  
A. 20.57%. B. 20.57%. C. 20.57%. D. 20.57%.

5. Match List I (densities) with List II (expressions) and select the correct answer using the codes given below: (symbols  $G$ ,  $e$ ,  $g_w$ , and  $S$  stand for specific gravity of soil grains, void ratio, unit weight of water, and degree of saturation, respectively).

**List I List II**

1. Dry density (a)  $\{(G + Se)/(1 + e)\}g_w$
2. Moist density (b)  $\{G/(1 + e)\}g_w$
3. Submerged density (c)  $\{(G + e)/(1 + e)\}g_w$
4. Saturated density (d)  $\{(G - 1)/(1 + e)\}g_w$

1 2 3 4

- A**  
A. b a d c  
B. b c d a  
C. d a b c  
D. d a b a

6. A saturated undisturbed sample from a clay stratum has a moisture content of 22.22% and a specific weight of 2.7. Assuming  $g_w = 10 \text{ kN/m}^3$ , the void ratio and the saturated unit weight of the clay, respectively, are **C**

- A. 0.6 and 16.875 kN/m<sup>3</sup>. C. 0.6 and 20.625 kN/m<sup>3</sup>.  
B. 0.3 and 20.625 kN/m<sup>3</sup>. D. 0.3 and 16.975 kN/m<sup>3</sup>.

7. What are the respective values of void ratio, porosity ratio, and saturated density (in kN/m<sup>3</sup>) for a soil sample that has a saturation moisture content of 20% and a specific gravity of grains as 2.6? (Take the density of water as 10 kN/m<sup>3</sup>.) **D**

- A. 0.52, 1.08, 18.07. C. 0.77, 1.08, 16.64.  
B. 0.52, 0.34, 18.07. D. 0.52, 0.34, 20.14.

8. A saturated soil mass has a total density 22 kN/m<sup>3</sup> and a water content of 10%. The bulk density and dry density of this soil are

- A. 12 kN/m<sup>3</sup> and 20 kN/m<sup>3</sup>, respectively. C. 19.8 kN/m<sup>3</sup> and 19.8 kN/m<sup>3</sup>, respectively.  
B. 22 kN/m<sup>3</sup> and 20 kN/m<sup>3</sup>, respectively. D. 23.2 kN/m<sup>3</sup> and 19.8 kN/m<sup>3</sup>, respectively.

**B**