



ANJAC CHEMISTRY CSIR / GATE / SET COACHING PROGRAMME
SCREENING TEST 2016 – 2017

NOTIFICATION

As carried out in the previous academic year (2015-2016), a set of II M.Sc. students from the various colleges situated in Madurai, Dindigul, Aruppukottai, Theni and Virudunagar Districts is going to be selected this year also (2016 - 2017) through a screening test to undergo an intense coaching sessions from July 2016 to February 2017 by eminent professors of Chemistry under **ANJAC CHEMISTRY CSIR / GATE / SET COACHING PROGRAMME**. The details of the screening test are given below.

1. Mode and Date of the test

The screening test will be conducted online on Saturday, 25th June 2016 from 2.00 to 4.00 pm.

2. Test Center

The screening test will be held at Ayya Nadar Janaki Ammal College Center, Sivakasi

3. About the test

- a. Time duration of the screening test is 2 hours.
- b. Maximum mark to be scored is 150.
- c. The question paper contains 78 multiple choice questions (48 Part A + 30 Part B).
You are required to answer a maximum of 36 questions from Part A and 15 from Part B.
- d. Each question in Part A and Part B carries 2½ marks and 4 marks respectively.
- e. Be cautious while selecting the question. After you answer the required maximum number of question in each part, the remaining questions will be disabled to proceed further in that part.
- f. Calculator will be available in the system itself.
- g. No negative marking for wrong answer.
- h. Paper would be provided for doing rough work.

4. About date for Registration

Students are asked to register for the screening test on on-line between 2nd and 15th May 2016. For application form, please login **www.anjaonline.org**

5. Probable Date of Commencement of CSIR Coaching classes: 03.07.2016

6. Expenses for CSIR Coaching classes

Students have to attend the coaching classes at their own expenses. Tea will be served to the students by ANJAC.

7. Contact details

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8. **About the syllabi for test**

a. **ORGANIC CHEMISTRY :**

IUPAC nomenclature – aromaticity – organic reaction intermediates – conformational analysis – stereochemistry – pericyclic reactions – organic reaction mechanisms – named reactions and rearrangements – substitution / elimination reactions – spectroscopy.

b. **INORGANIC CHEMISTRY:**

acid-base concept – M.O. theory – hybridisation and Bent's rule – term symbol – metal cluster – non-aqueous solvents – poly acids - silicates – P-N, S-N compounds – boranes and carbonanes – solid state chemistry - ^1H , ^{13}C , ^{19}F , ^{31}P NMR of inorganic compounds – ESR – coordination complexes – CFT, MOT, magnetic properties, electronic spectroscopy, stereochemistry – Jahn-Teller distortion, CFSE, π -complexes – lanthanides and actinides.

c. **PHYSICAL CHEMISTRY:**

Chemical thermodynamics – chemical equilibrium – chemical kinetics – catalysis – electrochemistry – statistical thermodynamics – polymer chemistry – phase rule – group theory – quantum chemistry