



AYYA NADAR JANAKI AMMAL COLLEGE (Autonomous), SIVAKASI
6th ANJAC CHEMISTRY CSIR/GATE/SET COACHING PROGRAMME
ON-LINE SCREENING TEST 2019 – 2020

NOTIFICATION

As carried out in the previous academic years (2014-2015 onwards), a set of **II M.Sc. Chemistry** students from various colleges situated in Madurai, Dindigul, Aruppukottai, Theni and Virudunagar Districts will be selected for the academic year 2019 - 2020 through a screening test. The selected students will undergo an intense coaching sessions from June 2019 to March 2020 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

On-line test on Saturday, 22nd June 2019 from 1.30 to 04.00 pm

2. Test Center

P.G. / U.G. Computer Science Lab, Ayya Nadar Janaki Ammal College, Sivakasi

3. About the test

- a. Time duration: 2 ½ hours
- b. Maximum mark to be scored: 170
- c. The question paper contains 100 multiple choice questions (40 Part A + 60 Part B). You are required to answer a maximum of 35 questions from Part A and 25 from Part B.
- d. Each question in Part A and Part B carries 2 marks and 4 marks respectively.
- e. Be cautious while selecting the question. After the required maximum number of question is answered in each part, the remaining questions will be disabled to proceed further in that part.
- f. Calculator will be available in the computer itself.
- g. **THERE WILL BE NEGATIVE MARKING @ 25 % FOR EACH 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 by logging on to **www.anjaonline.org** between 15th May 2019 and 21st June 2019.

5. Probable Date of Commencement of CSIR Coaching Programme: 30.06.2019

6. Expenses for CSIR Coaching classes

There will be **NO Registration and Course fee** to attend the classes. Students have to attend the coaching classes at their own expenses. Tea will be served to the students by ANJAC.

7. Organizing Secretaries:

Dr. S. Saravanan	Dr. S. Senthilkumar
ANJA College, Sivakasi	ANJA College, Sivakasi
Cell: 9443333878	9655222205

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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