

**5<sup>th</sup> FOOD ANALYST EXAMINATION (5<sup>th</sup> FAE)**  
**PAPER – III (PRACTICAL EXAMINATION)**

1. All the candidates who have qualified Paper-I and Paper-II of 5<sup>th</sup> FAE are informed that the Paper-III (Practical examination) is scheduled to be held at the following centers on **22<sup>nd</sup> and 23<sup>rd</sup> December, 2018**

Center Code	Name & Address of the Center
01	National Institute of Food Technology, Entrepreneurship & Management (NIFTEM), Plot No. 97, Sector 56, HSIDC Industrial Estate, Kundli, Sonapat, Haryana 131 028
02	Department of Food Safety & Analytical Quality Control (FSAQCL) CSIR-Central Food Technological Research Institute (CSIR-CFTRI) Mysore 570 020
03	Department of Food Engineering & Technology Institute of Chemical Technology (ICT), Matunga, Mumbai 400 019

**Center wise details of candidates is annexed.**

The candidates are provisionally admitted to appear for the practical examination. Final issuance of certificate, upon qualifying the practical examination would be subject to verification of educational qualification and mandatory experience as prescribed in FSSR 2011.

**Admit Cards will be made available for download through a link on FSSAI's website or will be issued separately through email shortly.**

If any candidate does not receive the admit card by 15<sup>th</sup> December, 2018, he/she may contact Shri. Shailender Kumar, Assistant Director (QA) at [faexam.qa@fssai.gov.in](mailto:faexam.qa@fssai.gov.in) (Phone No: 011-23237417).

2. The pattern, qualifying criteria, schedule and syllabus of the examination are as below –

**Pattern of examination**

	Particular	Weightage (%)	Marks
Paper-III	Part-A: Methods of Analysis	25	50
	Part-B: Practical Proficiency	50	100
	Part-C: Viva-voce	25	50
	Total	100	200

- The Paper-III will have three parts viz., **Part-A** (Theory paper dealing with methods of analysis), **Part-B** (Practical test to be conducted by the candidates) and **Part C** (Viva-voce)

#### **Qualifying criteria**

- Candidates who will score a minimum of 40% separately in each of the part A, B & C; and a minimum aggregate of 50% shall only be declared as passing the Paper III and eventually be declared as “Food Analyst” by the Board subject to fulfilling all the laid down conditions.

#### **Schedule Date**

- Date: 22<sup>nd</sup> and 23<sup>rd</sup> December, 2018 (2 days)
- Time: 09:00 AM to 05:00 PM

#### **Syllabus for Practical Exam with Viva-Voce**

1. Physical, Chemical, Microbiological (including microscopic examination as required) examination of the food and food products as described under FSS Regulation, 2011.
  2. Proximate analysis of food.
  3. Detection and estimation of various contaminants in foods.
  4. Any other type of food analysis as required under FSS Act, 2006 and FSS Regulation, 2011.
  5. Theory of Practical's/Instrumentations:
    - i. Quantifications of Melamine Analysis, Herbicides, Pesticides and Synthetic Color.
    - ii. Antibiotic, Antibacterial drug residues in Food.
    - iii. Specialized Veterinary Samples received from Ante-mortem and Post-mortem inspection
    - iv. Gel Electrophoresis, ELISA, PCR, RT-PCR, r-PCR, Antibiotic and Hormone residues, Melamine, GM food analysis method.
    - v. Fatty acid profile, PUFA, MUFA, Cholesterol
- **Indicative list of Analysis**
    - i. Analysis of Artificial sweeteners e.g. Aspartame in diet drinks and light foodstuffs.
    - ii. Aflatoxins and Mycotoxins contamination in Food
    - iii. Quantification of preservatives like SO<sub>2</sub>, Benzoic acid, Synthetic colors in foods.
    - iv. Melamine in milk and milk products
    - v. Principles and detailed method of Pesticides Analysis (Organochlorine and Nitrogen, Sulphur containing) compounds Sub ppb level in Food stuffs including Fruits and Vegetables.
    - vi. Samples received (Referral/Appellate samples) from Designated Officer under FSS Act/Rules/Regulations.

- **Indicative list of instruments:**

1. HPLC High Performance with UV-Vis Detector
2. HPLC with UV-vis and Fluorescence Detector- Amino Acid for system and for Protein Analysis.
3. HPLC with Evaporating Light Scattering Detector (ELSD) Detector- For Sugar Analysis
4. LC-QQQ MS/MS ( Triple Quadrupole Detector) (1 for Pesticide, 1 for Aflatoxins and 1 for Antibiotics)
5. LC-QToF- Quadrupole Time of Flight) 1 No. for Non –Target Pesticide Analysis.
6. Ion Chromatograph
7. PCR & RTPCR – Real Time Polymerase Reaction system –for GM food and Pathogen Detection
8. GCMS –QQQ ( MS/MS) Gas Chromatograph Triple Quad system- Pesticide Analyzer
9. GCMS – QQQ (MS/MS ) Gas Triple Quad System – for Dioxins, PAH and PCB’ analysis
10. GC- QToF system for Non Target Compounds Analysis
11. GCMS Single Quad with ECD and FPD Detector
12. GC with FID, ECD, NPD Detector
13. DNA Sequencer
14. Bioanalyzer- DNA/RNA/Protein Analysis
15. Colony Counter
16. Fourier Transform Infrared spectroscopy (FTIR)
17. Graphite Furnace Atomic Absorption (GFAA)
18. LC-ICP-MS (liquid chromatography-Inductively Coupled Plasma -Mass Spectrometry)
19. UV-Vis Spectrophotometer
20. Kjeldalh Digester system
21. Gel Electrophoresis system
22. Flow Cytometer
23. Imaging System- Microscope
24. Nuclear Magnetic Resonance (NMR)system
25. Microbiological ELISA
26. Micro Wave Digesters
27. Rotary Evaporator
28. Balances
29. pH meter
30. Hot Plate
31. Centrifuges
32. Oven
33. Refrigerator
34. Deep Freezer
35. Water Bath

## Center-wise detail of Candidates

### Center-wise Details of Candidates for Practical examination

The candidates are provisionally admitted to appear for the practical examination. Final issuance of certificate, upon qualifying the practical examination would be subject to verification of educational qualification and mandatory experience as prescribed in FSSR 2011.

S. NO.	ROLL NO	NAME OF THE CANDIDATE
<b>01 NIFTEM, Kundli, Sonipat</b>		
1	1815550276	Jaslender Kumar
2	1815550496	Shraddha Dwivedi
3	1815550390*	Mitasha Mehta
4	1815550324	Jaswant Singh Bhati
5	1815550403	Sushila
6	1815550610	ArchanaGautam
7	1815550422	Anil Kumar
8	1815550498	Ajai Kumar Singh
9	1815550400	LiladharVerma
10	1815550671	Shweta Mishra
11	1815550363*	Chitvendra Singh
12	1815550115*	Soumik Sarkar
13	1815550144	Santanu Biswas
14	1815550426	Prasanna Balasubramaniam
15	1815550582	Debashis Roy
16	1815550102	Nabanita Hazra
17	1815550127	Sabyasachi Ghosh
18	1815550565	Neel Kamal Kalita
19	1815550460*	Kanwaki Patwari
20	1815550143*	Neha Chaudhary
21	1815550058	Vandana Sharma
22	1815550690*	Seema Rana
23	1815550539	Harish Kumar
24	1815550047	Prashant Arjunrao Kanthale
25	1815550210	Priyanka Meena
26	1815550253	Parveena Marazi
27	1815550193	Ruchi Sehgal
28	1815550035*	Lokesh Tak
29	1815550094	Nilay Yadav
30	1815550398	Rajnee Yadav
31	1815550411	Saurabh Kumar Srivastava
32	1815550457	Vipin Kumar Shukla
<b>02 CFTRI, Mysore</b>		
1.	1815550065	Thulasi Raman Krishnan
2.	1815550260*	Bharathi

S. NO.	ROLL NO	NAME OF THE CANDIDATE
3.	1815550121*	Nataraj Kandeepan
4.	1815550240	Joseph Francis Arokiaraj
5.	1815550557	Venkateswarlu T
6.	1815550360*	Depuru Gurupriya
7.	1815550034*	Ramajayam
8.	1815550205*	Jayashankar V
9.	1815550329	Ligen Das
10.	1815550309	David Antony
11.	1815550413	Suresh S
12.	1815550242	Rambabu
13.	1815550093	Fathimabegum Gulzar
14.	1815550518	Yuvaraj Ponnusamy
15.	1815550384	Ranjitha K P
16.	1815550618	Sakthivel
17.	1815550433	Amballa Varaprasada Babu
18.	1815550381	Yamuna Anjanappa
19.	1815550377	Raghuveer Bhikku Shanbhag
20.	1815550350	Kavitha Chethan
21.	1815550638	Nandini Manjunath
22.	1815550609	JagadishGk
23.	1815550119	Temburu Maheswara Rao
24.	1815550213	Supriya R
25.	1815550134	Kajan Kumar
26.	1815550373	Sandhya C Nair
27.	1815550295	Dineshkumar R
28.	1815550578	Deepa J
29.	1815550160	Ribin George
30.	1815550090*	Vishnuraj M R
31.	1815550619	Bokka Krishna Venkata Rama Prasad
32.	1815550481	Seetepalli Mallikarjuna Rao
33.	1815550189	Surendra Babu Peram
34.	1815550677	Naresh Macherla
35.	1815550705	Betina Radha Kumari
36.	1815550605	Murali Krishna Vasa
37.	1815550275	Baddela Manohar
38.	1815550087	Giridhar Goudar
39.	1815550239	Kota Veera Venkata Satyanaraya
40.	180111207	Irfan P K
41.	180111353	Neethi. S
<b>03 ICT, Mumbai</b>		
1.	1815550312	Sunil Ranchhodbhai Sangani
2.	1815550476	Afroj Kamaroddin Shaikh
3.	1815550464*	Shilpa Amit Verekar

<b>S. NO.</b>	<b>ROLL NO</b>	<b>NAME OF THE CANDIDATE</b>
4.	1815550652	Narasimha Chari Chirala
5.	1815550322	Hriday Bharatbhai Darji
6.	1815550703	Jyotsna Vikramsinh Pawar
7.	1815550159	Apurva Ameya Halbe
8.	1815550353*	Dnyaneshwar Ramesharao Shinde
9.	1815550694	Jekishanbhai Mohanbhai Patel
10.	1815550491	Pragati Vivek Dethe
11.	1815550264*	Rajshree Amrut Patil
12.	1815550130	Nilesh Madhukar Dhundale
13.	1815550053	Jyoti Mukund Harne
14.	1815550177	Rahul Diliprao Suryawanshi
15.	1815550301	Yuvraj Mahadeo Virkar
16.	1815550542	Kadambari Baban Dhomase
17.	1815550699*	Mithun Khandelwal
18.	1815550251*	Neeraj Praphulla Awasthi
19.	1815550351	Mukesh Kumar Raikwar
20.	1815550140	Sandeep Barku Pawar
21.	1815550046	Rupali Vivek Parekar
22.	1815550020	Someshwar Kashinath Nannaware
23.	1815550287*	Sadhashiv Shivajirao Nimbalkar
24.	1815550244	Sandeep Sopanrao Gaikwad
25.	1815550416	Lalit Kumar Thakur
26.	1815550439	Suvarna Sunil Mahadik
27.	1815550307	Seema Satish Bakde
28.	1815550477	Amruta Mohan Pawar
29.	1815550317*	Suhas Rajaram Nevase

\*The experience certificates submitted by the candidates are under consideration; the final discussion regarding their admissibility in practical exam will be communicated by 12<sup>th</sup> December, 2018.

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