

# RAJASTHAN UNIVERSITY OF HEALTH SCIENCES

Kumbha Marg, Sector-18, Pratap Nagar, Tonk Road, Jaipur -302033

Phone: 0141-2795527, 2795550; Fax: 0141-2795550

Website: [www.ruhsraj.org](http://www.ruhsraj.org)

## FOOD ANALYST RECRUITMENT EXAMINATION 2018

RECRUITMENT OF FOOD ANALYST IN MEDICAL & HEALTH DEPARTMENT, GOVT. OF RAJASTHAN

### Syllabus

Food Laws and Standards in India: Food Safety and Standards (FSS) Act, 2006, FSS Rules and Regulations, 2011; Agricultural Produce Act, 1937 (Grading and Marketing); Sugar (Control), Order; Export (Quality Control & Inspection), Act, 1963 and Rules; Bureau of Indian Standards; Legal Metrology; International Food Control Systems including CODEX

Planning Organization and set up of Food Analyst Laboratory including NABL/ ISO/IEC-17025:2005

Principles of food preservation, Processing and Packaging, labeling/claims and principles of nutrition: Food preservation and processing their principles, methodology and technology; Food Packaging materials rigid and flexible such as plastic films, metal containers, glass, containers, paper and card board containers, jute containers, etc.; Basic principles of nutrition and role of various nutrients in human metabolism.

Food Hygiene, Sanitation, HACCP, CODEX

Food Chemistry: Knowledge of Chemistry, definition, composition, and a standards of quality and safety of food & food products laid down in the FSS Regulations, 2011 including current food safety issues like antibiotic residues in Honey etc.

Food Additives & Contaminants: Analytical Chemistry; Food additives, chemistry, role and application Preservatives, emulsifying and stabilizing agents, buffering agents, bleaching, maturing agents and starch modifiers, Food colours, flavours, anti-caking agent etc.; Food contaminants their occurrence, LOD and LOQ (i) Metals, (ii) Pesticide residues, (iii) Mycotoxins, Aroclor, khesari dal, Ergot, karnal bunt, Dhatura, etc

Instrumentation in food analysis: Instrumentation and methods of analysis of food products (a) Chromatography, including GLC, TLC, Paper & Column, LC-MS-MS, ICP-MS (b) Spectrophotometry UV & I.R.; Atomic Absorption spectroscopy for determination of heavy metal contaminants in foods such as Lead, Cadmium, Mercury, Arsenic, Zinc, Copper, Tin, etc.

Food Microbiology: Food Microbiology, food spoilage organism and their control, microbiology of dairy products, Meat and Meat products, fish and fish products, egg and egg products, spices & condiments, processed food, food borne intoxicants and infection; Contaminants their composition, physiological significance in foods and detection.