

RANI DURGAWATI UNIVERSITY, JABALPUR

"SYLLABUS FOR DET EXAM"

Food & Nutrition

SESSION 2018-19

PART -A

Research Methodology

Max Marks-50

- Research: Meaning, characteristics and types;
- Steps of research;
- Methods of research;
- Research Ethics;
- Palgiarism;
- Analysis and interpreation of data conclusion of results;
- Research paper, article, workshop, seminar, conference and symposium;
- Thesis writing: its characteristics and format.

Doctoral Entrance Test 2018

Syllabus, Part – 'B'

Food and Nutrition

M.M. 50

UNIT-I

- ❖ Blood -- Composition and Function.
- ❖ Factors Influencing Erythropoiesis, RBC Indices, Blood Groups, Blood Clotting, Blood Abnormalities
- ❖ Cardiac Output and Blood Pressure, Cardiac Cycle, Heart Rate and Heart Sounds.
- ❖ Factors affecting the heart rate.
- ❖ Digestion of food.
- ❖ Structure and functions of kidney.
- ❖ Renal function tests (Urine and blood) Diuretics.

UNIT- II

- ❖ Importance of food microbiology
- ❖ Morphology of microbes- Bacteria, Virus, Fungi, And Algae Lichens etc.
- ❖ Microbiological apparatus and equipments.
- ❖ Preparation of culture media, Culture technique and staining strategies.
- ❖ Analytical Biochemistry
- ❖ Techniques - Photometry, Electrophoresis, Chromatography, ELISA, Kjeldahl, Soxhlet etc.

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UNIT- III

- ❖ Assessment of Nutritional Status.
- ❖ Anthropometric measurement of community.
- ❖ Clinical assessment.
- ❖ Biochemical assessment.
- ❖ Dietary assessment.
- ❖ Determinants of malnutrition.
- ❖ Nutrition Education- Methods of Nutrition Education.
- ❖ Tests- KAP, Assessment of Socioeconomic Status.
- ❖ Geriatric Nutrition.
- ❖ Physiological and biochemical changes during ageing.

UNIT- IV

- ❖ Nutritional Evaluation of Food Quality.
- ❖ Sensory Evaluations of Food.
- ❖ Sensory Characteristics of Food.
- ❖ Different Sensory Evaluation Tests.

UNIT- V

- ❖ Assessment of critically ill patients.
- ❖ Nutritional Care and Intervention.
- ❖ Enteral and Parenteral Feeding.
- ❖ Nutritional Counseling.