SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

# Integrated Clinical Nutrition and Dietetics (CND)

# First Year Semester-I, March-2021Examination

**Time: 2.00 Hrs.** **[Max. Marks: 50]**

## HUMAN PHYSIOLOGY

## Q.P Code: N1010

*Your answers should be specific to the questions asked.*
*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY** **2 X 6 = 12 Marks**

1. Define cardiac cycle. Give its normal duration. Describe various events occurring during ventricular systole
2. Describe the different phases of gastric secretion .

**SHORT ESSAY** **6X 4 = 24 Marks**

3. Define erythropoiesis. Describe the stages of erythropoiesis
4. Describe the steps involved in cell mediated immunity.
5. List the factors that shift oxy-hemoglobin dissociation curve to right
6. Describe micturition reflex.
7. List the hormones involve in calcium homeostasis
8. list the neuralgia cells with its functions

**SHORT ANSWER** **7 X 2 = 14 Marks**

9. List the functions of loop of henle
10. List the factors affecting spermatogenesis
11. Explain how intra uterine contraceptive device prevent pregnancy
12. List the functions of leucocytes
13. List the mismatched blood transfusion reactions.
14. List the functions of liver
15. Classify body fluid compartments.

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# First Year Semester-I, March-2021 Examination.

**Time: 2.00 Hrs.** **[Max. Marks: 50]**

## NUTRITIONAL BIOCHEMISTRY

**Q.P Code: N1020**

*Your answer should be specific to the questions asked*
*Draw neat labeled diagrams wherever necessary.*

## LONG ESSAY **2x6=12Marks**

1. Define Glycolysis. Write the reactions of aerobic glycolysis. (1+5)
2. Mention normal levels of serum calcium. Explain the regulation of blood calcium level. (1+5)

## SHORT ESSAY **6x4=24Marks**

3. Describe the Structure of DNA with neat labeled diagram
4. What are high energy compounds? Give three examples and mention their biomedical importance. (1+3)
5. Define Fatty Liver. Mention the causes of fatty liver. Add a note on lipotropic factors. (1+1.5+1.5)
6. Mention the sources, RDA and deficiency manifestations of Vitamin D. (1+1+2)
7. Define genetic code. Write the characteristics of genetic code. (1+3)
8. Define Enzymes. Classify enzymes with suitable examples. (1+3)

## SHORT ANSWERS **7x2=14Marks**

9. Define essential fatty acids and Name them.
10. Name any two hormones which are involved in the regulation of fluid and electrolyte balance.
11. Mention two therapeutic enzymes with their applications.
12. Mention the derivatives of cholesterol and write their biomedical importance.
13. Define denaturation of proteins. Write any two factors causing denaturation.
14. Wilson's Disease
15. Name hormones of Adrenal cortex.

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**Time: 2.00 Hrs.** **[Max. Marks: 50]**

### FUNCTIONAL HUMAN ANATOMY

**Q.P Code: N1030**

*Your answer should be specific to the questions asked*
*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY:** **6X2=12 Marks**

**1.** Describe the gross features and relations of liver
**2.** Describe the pituitary gland under following headings: Gross features and relations.

**SHORT ESSAY:** **6X4=24 Marks**

**3.** Describe the interior of Right atrium
**4.** Describe the microscopic structure of serous salivary gland.
**5.** Name the extra-ocular muscles with nerve supply and actions.
**6.** Mention the origin, course and branches of coeliac trunk.
**7.** Mention the Posterior relations of right and left kidney
**8.** Classify the bones with examples

**SHORT ANSWER:** **7X2=14 Marks**

**9.** List the parts of internal capsule
**10.** Porta Hepatis.
**11.** List the differences between small and large intestine
**12.** Draw a labelled diagram of microscopic structure of supra renal gland
**13.** Mention the names of salivary glands & location
**14.** Name the bones forming nasal septum
**15.** Enumerate the steps of Oogenesis.

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**TIME - 2 HRS** **MAX MARKS: 50**

### FOOD FACTS AND PRINCIPLES -I
### Q.P. CODE: N1041

*Your answers should be specific to questions asked.*
*Draw neat labelled diagrams wherever necessary*

**LONG ESSAY** **2x6 = 12marks**

1. Describe physiological functions of foods.
2. Describe structure of wheat with labelled diagram.

**SHORT ESSAY** **6x4 = 24 marks**

3. Explain the properties of acids and bases
4. Explain the importance of cereals and millets consumption
5. Differentiate between digestible and indigestible proteins
6. Describe the physical properties of fats and oils
7. Explain the effects of processing on pigments present in fruits and vegetables
8. Describe the process of post-harvest changes in fruits

**SHORT ANSWER** **7x2=14marks**

9. Define food. List any two functions of food
10. Define sols, gels with examples
11. Define dextrins with four examples
12. List the steps taken to prevent lumps formation while cooking starch
13. list the minor nutrient content of bengal gram and cow pea per 100gms
14. Define pulse protein concentrate with two examples
15. Define fats and oils

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