

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

Integrated B.Sc. – M.Sc. Clinical Nutrition and Dietetics (CND)
First Year Semester-I, February-2020 Examination.

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. List the phases of deglutition. Explain the steps involved in second phase of deglutition.
2. Define cardiac cycle . Describe the pressure changes in left ventricle

Short Essay

6X 4 = 24 Marks

3. Explain the role of platelets in formation of temporary hemostatic plug
4. Name the muscles involved in respiration.
5. List the functions of renin angiotensin mechanism
6. List the steps of phagocytosis
7. List the hormones secreted by posterior pituitary with its functions
8. Define synapse. list two inhibitory neurotransmitters

Short Answer

7 X 2 = 14 Marks

9. List the steps involved in urine formation
10. List the hormones influencing menstrual cycle
11. Classify temporary methods of contraceptives among females
12. List the function T lymphocyte
13. Give the normal value of PCV in males & females
14. List the types of cells in gastric mucosa & give the function of each.
15. Define secondary active transport with example

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NUTRITIONAL BIOCHEMISTRY

Q.P Code: N1020

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Long Essay

2x6=12Marks

1. Name the ketone bodies. Describe the formation and breakdown of ketone bodies.
(1+2.5+2.5)
2. Describe the dietary sources, Recommended Daily Allowance, Biochemical functions and deficiency manifestations of Vitamin A. (1+1+2+2)

SHORT ESSAY

6x4=24Marks

3. What are Phospholipids? Classify them with suitable examples and important functions.
(1+3).
4. Mention normal levels of serum calcium. Describe the factors affecting the absorption and functions of calcium. (1+1.5+1.5)
5. What are nucleosides and nucleotides? Give examples. (2+2)
6. Define Replication. List the enzymes and proteins of replication with their functions.
(1+3)
7. Define Enzymes. Explain any 3 factors affecting enzyme activity. (1+3)
8. Write the reactions of HMP shunt pathway.

SHORT ANSWERS

7x2=14Marks

9. Define homopolysaccharides. Give two examples.
10. What are lipotropic factors? Write two examples.
11. Name two iron storage disorders.
12. Name two biologically important peptides with their biological role.
13. Name hormones of pancreas.
14. What are uncouplers? List any two uncouplers.
15. Write the biological reference interval for: a)FBS b) Blood Urea

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[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=12Marks

1. Explain the Urinary bladder under following headings: External features and Nerve supply
2. Explain the Tongue under following headings: Gross features and Muscles

SHORT ESSAY:

6X4=24Marks

3. Mention the structures in the hilum of both the Lungs
4. Classify the synovial joints with examples
5. Describe the microscopic structure of Liver
6. List the steps in implantation
7. Enumerate the boundaries and contents of Middle ear.
8. List the structures forming Stomach bed with a diagram.

SHORT ANSWER:

7X2=14Marks

9. Name the constrictions of ureter
10. List the openings in middle meatus
11. Name the endocrine glands in Human body
12. List the parts of small intestine
13. Draw a labelled diagram of microscopic structure of white fibrous cartilage
14. Morula
15. List the meningeal layers of brain

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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 = 12 marks

1. Explain the sociological and psychological functions of foods
2. Explain effects of cooking on nutritive value of cereals

SHORT ESSAY

6x4 = 24 marks

3. Enumerate bound, free and absorbed water with diagrams
4. Describe any eight properties of water
5. Explain dextrinization process
6. Discuss about increase in digestibility and availability of amino acids present in pulses and legume
7. Explain the effects of temperature and time of heating on fats and oils
8. Explain nutritive value of other vegetables

SHORT ANSWER

7x2 = 14 marks

9. Define emulsions and foams with example
10. Define PH and mention the PH scale of different foods
11. List the examples of bound, free and absorbed water in foods
12. List the methods employed to reduce anti-nutrient content in pulses and legumes
13. Classify the vegetables and give two examples for each
14. Define iodine number and saponification number
15. Mention nutritive value of soya bean per 100grams

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