SRI DEVAR
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First Yo
Time: 2.00 Hrs.

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Integrated Clinical Nutrition and Dietetics (CND) First Year Semester-I, September 2021 Examination

[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 composition & describe the functions of saliva
- Define cardiac cycle & give the normal duration. List the differences between first heart sound &
 Second Heart sound

SHORT ESSAY

6X 4 = 24 Marks

- 3. Name three important plasma proteins. Give one important function of each.
- 4. List the functions of surfactant
- 5. With the help of flow chart explain micturition reflex.
- 6. List the hormones secreted by pituitary gland
- 7. Describe the steps involved in humoral immunity.
- 8. List the effects of sympathetic stimulation on heart

SHORT ANSWER

7 X 2 = 14 Marks

- 9. Define GFR. Give the normal value.
- 10. List the steps of spermatogenesis
- 11. List the hormones regulating menstrual cycle
- 12. List the functions of WBC's
- 13. List the functions of plasma proteins
- 14. List the types of cells in gastric mucosa & give the function of each.
- 15. Define facilitated diffusion

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Integrated B.Sc. – M.Sc. Clinical Nutrition and Dietetics (CND)

First Year Semester-I, September 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. Define Carbohydrates. Classify them with suitable examples & write their biomedical importance. (1+3+2)

SHORT ESSAY

6x4=24Marks

- 3. Describe the Biochemical functions and deficiency manifestations of Vitamin A. (2+2)
- Define Fatty Liver. Mention the causes of fatty liver. Add a note on lipotropic factors. (1+1.5+1.5)
- 5. Explain different transport mechanisms across cell membrane with suitable examples.
- 6. Describe the structure of tRNA with a neat labelled diagram.
- 7. Describe the transport and storage of iron. (2+2)
- 8. Classify complex lipids with examples and biomedical importance.

SHORT ANSWERS

7x2=14Marks

- Mention normal levels of serum calcium. List any two factors affecting the absorption of calcium.
- Define genetic code. Write any two characteristics of genetic code.
- 11. Define denaturation of proteins. Write any two factors causing denaturation.
- 12. What is the normal blood pH? Name any two blood buffers by which acid-base balance is regulated in the body.
- 13. Define Isoenzymes. Give any two example.
- 14. Name thyroid Hormones.
- 15. Define essential amino acids and Name them.



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Integrated B.Sc. – M.Sc. Clinical Nutrition and Dietetics (CND) First Year Semester-I, September 2021Examination

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=12Marks

- Describe the blood supply of Heart.
- 2. Describe the relations and blood supply of thyroid gland.

SHORT ESSAY:

6X4=24Marks

- 3. Describe the relations and interior of Second part of Duodenum
- 4. Describe the microscopic structure of Kidney
- 5. Mention the gyri and sulci of superolateral surface of cerebrum.
- Classify neurons.
- 7. Mention the gross features of tympanic membrane.
- 8. List the branches of external carotid artery.

SHORT ANSWER:

7X2=14Marks

- 9. Mention the functions of Placenta
- 10. Draw a labeled diagram of Microscopic structure of cerebellum
- 11. Any two salient features of left lung
- Blastocyst
- 13. Parotid duct
- 14. Parts of corpus callosum
- 15. Fossa ovalis



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Integrated B.Sc. – M.Sc. Clinical Nutrition and Dietetics (CND) First Year Semester-I, September 2021 Examination

TIME-2 HRS

MAX MARKS: 50

FOOD FACTS AND PRINCIPLES -I O.P CODE: N1041

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

LONG ESSAY

 $2 \times 6 = 12 \text{ marks}$

- Explain importance of fats and oils in development of flavour and texture in food.
- Explain role of cereals in Indian cookery.

SHORT ESSAY

 $6 \times 4 = 24 \text{ marks}$

- 3. Discuss octet rule with suitable example.
- 4. Describe traditional and modern methods of storage.
- Explain gelatinization process.
- 6. Explain process of germination.
- 7. Describe oxidation process in fats and oils.
- 8. Explain carotenoids loss during cooking.

SHORT ANSWER

 $7 \times 2 = 14 \text{ marks}$

- Define surface and interfacial tension.
- 10. Define pyrolysis with example,
- 11. Name any four commonly used oil seeds and nuts with their botanical names.
- 12. Define pigments and list four pigments found in fruits and vegetables.
- 13. List the changes in cooked starches.
- 14. Define visible, invisible and trans fats.
- 15. List amylose percentage of waxy corn, rice, potato and wheat.

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