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FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2022

(CCSS)

Human Physiology

PSG 4E 05—DIET AND NUTRITION

(2019 Admissions)

Time: Three Hours Maximum: 80 Marks

- I. Long Essay. Answer any four:
 - 1 Define balanced diet. Describe the steps in planning balanced diet.
 - 2 Describe the purpose and methods of cooking.
 - 3 Describe the nutritional importance of proteins. Explain the dietary sources, requirements and deficiency of proteins.
 - 4. What is food habit? Describe the various factors influencing food habits and food selection.
 - 5 Describe the need for food storage and explain the various methods of food storage with their merits and demerits.
 - 6 Explain the nutritional importance of calcium under the following headings: A) Source B) Daily requirements, C) Physiological functions D) Deficiency manifestations.

 $(4 \times 10 = 40 \text{ marks})$

- II. Short essays. Write short notes on any eight:
 - 7 Prevention of food adulteration.
 - 8 Dietary importance of vitamin D.
 - 9 Causes and symptoms of vitamin C deficiency
 - 10 Effect of heat on cooking.
 - 11 Nutritional importance of cholesterol.
 - 12 Causes and symptoms of Vitamin K deficiency.
 - 13 Trace elements.
 - 14 Food pattern.
 - 15 Diet planning for diabetic patient.
 - 16 Dietary sources of carbohydrates.

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FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2022

(CCSS)

Human Physiology

PSG 4C 15—ADVANCES IN NEUROSCIENCES

(2019 Admissions)

Time: Three Hours

Maximum: 80 Marks

Draw neat Labelled Diagrams wherever needed.

- I. Long Essay: Answer any four questions. Each question carries 10 marks:
 - 1 Describe sleep and wakefulness. Describe the physiological basis of sleep. Add a note on sleep disorders.
 - 2 Describe the causes, clinical features and management of Parkinsonism.
 - 3 Define and classify motor neuron disorder. Describe the clinical features of different types of motor neuron disorders.
 - 4 Define depression. Describe the causes and clinical features of depression. Explain the impact of depression on personal health and social health.
 - 5 Explain the socio economic impact of drug addiction. Add a note on physiological basis for drug addiction and de addiction.
 - 6 Define emotion. Explain the role of limbic system on emotion.

 $(4 \times 10 = 40 \text{ marks})$

- II. Write short notes on any eight. Each question carries 5 marks:
 - 7 Clinical features and management of Alzheimer's disease.
 - 8 Epilepsy.
 - 9 Dementia.
 - 10 Biochemical markers for stress.

- 11 Brown Sequard syndrome.
- 12 Multiple sclerosis.
- 13 Therapeutic uses of stem cell technology.
- 14 Speech disorders.
- 15 Neurotrophic factors.
- CHINIK LIBRARY UNIVERSITY (16 Life style related disorders.

 $(8 \times 5 = 40 \text{ marks})$

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FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2021

(CCSS)

M.Sc. Human Physiology

PSG 4E 06-METABOLIC DISORDERS AND MANAGEMENT

(2019 Admissions)

Time: Three Hours

Maximum: 80 Marks

Draw neat labelled diagrams wherever necessary.

- I. Long Essays. Answer any four of the following:
 - 1 Write an account of salvage pathway in purine nucleotide synthesis. Add a note on Lesch-Nyhan syndrome.
 - 2 Classify Jaundice? How do you investigate a case of jaundice?
 - 3 Outline the steps of Phenylalanine and Tyrosine catabolism? Explain the inborn errors of metabolism associated with this pathway?
 - 4 Give an account on the nutritional importance of carbohydrates, lipids and proteins. Add notes on protein energy malnutrition.
 - 5 Explain the disorders of heme synthesis?
 - 6 Explain the process by which galactose is converted into glucose. Indicate the metabolic errors associated with this pathway.

 $(4 \times 10 = 40 \text{ marks})$

- II. Write short notes on any eight of the following:
 - 7 Maple syrup urine disease.
 - 8 Atherosclerosis.
 - 9 Reye's syndrome.
 - 10 Respiratory distress syndrome.
 - 11 Niemann-Pick disease.
 - 12 Dicarboxylic aciduria.
 - 13 Secondary hyperuricemias.
 - 14 Acquired Hyperbilirubinemias.
 - 15 Glycogen storage diseases.
 - 16 Hartnup disease.

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FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2021

(CCSS)

M.Sc. Human Physiology

PSG 4E 08—TOXICOLOGY

(2019 Admissions)

Time: Three Hours

Maximum: 80 Marks

Answer any four of the following.

I. Long Essay:

- 1 Describe the causes, signs, symptoms and management of poisoning by:
 - A) Barbiturates; B) Phenol; and C) Kerosene.
- 2 Explain the complication of snake bite and add a note on first aid in snake bite.
- 3 Classify irritants. Describe the effect of irritants on various organ systems.
- 4 Describe the causes and impact of Bhopal gas tragedy. Add a note on steps to be taken to avoid such a hazard.
- 5 Describe the causes, clinical features and management of organophosphorus poisoning.
- 6 Explain the endosulfan poisoning under the following headings:
 - a) Source; b) Mechanism of action; c) Complications; and d) Management.

 $(4 \times 10 = 40 \text{ marks})$

II. Short Essays. Answer any eight:

- 7 Heavy metal ion poisoning.
- 8 Alcohol poisoning.
- 9 Agriculture based poisons.
- 10 Compare acute, sub acute and chronic toxicity.
- 11 Formaldehyde poisoning.
- 12 Cannabies and cocaine.
- 13 Mechanism of action of carbon monoxide.
- 14 Plumbism.
- 15 Vitriolage.
- 16 Mechanical irritants.