

DKM COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

DEPARTMENT OF FOODS AND NUTRITION

HUMAN PHYSIOLOGY

Sub Code:15CNFIA

Class: I BSC

UNIT-1 CELLS

2 Marks Questions

1. Define Cell.
2. What is Ectoplasm?
3. What is Glycocalyx?
4. What are the Functions of Cell Membrane?
5. What are the Cytoplasmic Inclusions?
6. What are Cytoplasmic Organelles?
7. What are Cristae Mitochondriales?
8. What are the Functions of Mitochondrias?
9. What are Power Houses of Cell?
10. What are the Functions of Golgi Apparatus?
11. What are the Types of Endoplasmic Reticulum?
12. What are Ribosomes?
13. What are Centrosomes?
14. What are Centrioles?
15. What are Suicidal Bags?
16. What is known as Chromatin Reticulum?
17. What is known as Nucleoplasm?
18. What are Chromosomes?
19. What are Autosomes?
20. What is Centromere?
21. What are the Functions of Nucleus?
22. What is Mitosis?
23. What is Meiosis?
24. What are the Stages of Mitosis?
25. What is Cytokinesis?

26. Define tissue.
27. What are Epithelial Tissues?
28. What are the Functions Of Epithelial Tissues?
29. What are the Types of Epithelial Tissues?
30. What are the Types of Simple Epithelial Tissue?
31. What are the Types of Compound Epithelial Tissue?
32. What are the Functions of Squamous Epithelium?
33. What are the Functions of Cuboidal Epithelium?
34. What are the Functions of Columnar Epithelium?
35. What are the Functions of Ciliated Epithelium?
36. What are the Functions of Glandular Epithelium?
37. What are the Functions of Transitional Epithelium?
38. What are the Functions of Stratified Squamous Cornified Epithelium?
39. What are the Functions of Stratified Squamous Non-Cornified Epithelium?
40. What are Connective Tissues?
41. What are the types of Connective Tissues?
42. What are the Functions of Areolar Connective Tissue?
43. What are the Functions of White Fibrous Connective Tissue?
44. What are the Functions of Adipose Connective Tissue?
45. What are the Functions of Yellow Elastic Connective Tissue?
46. What are the Types of Adipose Tissue?
47. What are the Types of Cartilage Tissue?
48. What are the Types of Bone Tissue?
49. What are Harvesian Canals?
50. What are Osteoclasts?
51. What are Osteoblasts?
52. What are the Functions of Muscle Tissue?
53. What are the Types of Muscle Tissue?
54. What is Syncytium?
55. What is Neuron?
56. What are the Types of Nervous Fibre?
57. What is Myelin Sheath?
58. What is known as Brush Border Epithelium?

5 Mark Questions

1. Sketch the Structure of Human Cell
2. Write a note on Nucleus.
3. Explain about Cytoplasmic Organelles.
4. Explain Mitosis.
5. Explain simple Epithelium
6. Explain Connective Tissue
7. Explain Bone Tissue
8. Explain Muscle Tissue
9. Explain Nervous Tissue
10. Explain Compound Epithelium

10 Mark Questions

1. Explain the Structure Of Human Cell.
2. Explain Mitotic Cell Division.
3. Explain Meiotic Cell Division.
4. Explain Epithelium.
5. Explain The Types Of Tissues In Detail.

Unit-II Transport And Maintenance

2 Mark Questions:

1. What is Plasma?
2. What are the Corpuscles of Blood?
3. What are Plasma Proteins?
4. What is Hematocrit Value?
5. What is Phagocytosis?
6. What is Rouleaux Formation?
7. What are Trephones?
8. What are Erythrocytes?
9. What is Polycythemia?
10. What is Anaemia?
11. What is Erythropoiesis?
12. What is Myeloid Tissue?
13. What is Lymphoid Tissue?

14. What is Intravascular Erythropoiesis?
15. What is Extramedullary Erythropoiesis?
16. What is Erythropoietin?
17. What are the Types of Leucocytes?
18. What are Granulocytes?
19. What are Agranulocytes?
20. What is Leucopoiesis?
21. What are Thrombocytes?
22. What is Agglutinin?
23. What is Agglutininogen?
24. What are Kupffer Cells?
25. What is Pericardium?
26. What are the Layers of Heart?
27. What are the Chambers of Heart?
28. What is Auriculo Ventricular Orifice?
29. What are the Layers of Arteries?
30. What are Arterioles?
31. What is Ecg? Isometric Relaxation Period
32. Define Cardiac Cycle
33. What is Isometric Contraction Period?
34. What is Maximum Ejection Period?
35. What is Reduced Ejection Period?
36. What is Rapid Filling Phase?
37. What is Isometric Relaxation Period?
38. What is Blood Pressure?
39. What is Systolic Pressure?
40. What is Diastolic Pressure?
41. What is known as Pulse Pressure?

5 Mark Questions:

1. What is the Composition of Blood?
2. What are the Physical Characteristics Of Blood?
3. What are the Functions Of Blood?
4. Explain Plasma Proteins

5. What are the Functions of Plasma Proteins?
6. What are the Stages of Erythropoiesis?
7. What are the Factors Essential for Erythropoiesis?
8. What are the Types of Leucocytes?
9. What are the Functions Of WBC's?
- 10.Explain Blood Grouping?
- 11.Explain About Lymph And Lymphatic System.
- 12.Explain About Spleen
- 13.Explain About Reticulo Endothelial System.
- 14.Explain the Layers of Heart.
- 15.Explain about the Chambers of Heart.
- 16.What are the Blood Vessels Connected To Heart?
- 17.What are the Properties Of Heart?
- 18.Explain ECG.
- 19.What is Bp and the Factors Affecting It?

10 Mark Question

1. Explain Erythropoiesis.
2. Explain the Composition and Functions of Blood.
3. Explain Leucocytes And Their Functions.
4. Explain the Structure Of Heart.
5. Explain the Origin And Conduction Of Heart Beat.
6. Explain Cardiac Cycle.

UNIT-III DIGESTIVE SYSTEM

2 Mark Question

1. Define Digestive System
2. Define Deglutition
3. What is Ingestion?
4. What is Propulsion?
5. What is Absorption?
6. What is Elimination?
7. What is Digestion?
8. What are the Organs of Digestive System?
9. What are the Accessory Organs of Digestive System?

10. What are Taste Buds?
11. What is Mastication?
12. What is Dentine?
13. What are Parotid Glands?
14. What are Submandibular Glands?
15. What are Sublingual Glands?
16. What is Peristalsis?
17. How is Pharynx Divided?
18. What is a Bolus?
19. What is Rugae?
20. What are the Lobes of Liver?
21. What are the Functions of Gall Bladder?
22. How is Small Intestine Divided?
23. What is Villi?
24. What are Lacteals?
25. What is Succus Entericus?
26. How is Colon Divided?
27. What are the two Sphincters of Anal Canal?
28. What are the Nutrients Synthesized By The Microbes In Large Intestine?
29. Name some Monosaccharides.
30. Name some Disaccharides.
31. Name some Polysaccharides.
32. What is Ptyalin?
33. What is sodium Co Transport Mechanism?
34. What is Facilitated Diffusion?
35. What is Passive Transport?
36. What are Endopeptidases?
37. What are the Proteolytic Enzymes In Succus Entericus?
38. What are the Lipolytic Enzymes?
39. What is Defecation?

5 Mark Questions

1. What are the functions of Digestive System?
2. What are the Organs of Digestive System?

3. Sketch the structure of Stomach
4. What are Salivary Glands?
5. How is Salivary Secretion Controlled?
6. Explain Stomach With Its Sketch.
7. Explain the Composition of Gastric Juice And Its Functions.
8. What are the Functions of Stomach?
9. Explain the Structure of Liver And Its Functions
10. Explain the Exocrine and Endocrine Functions Of Pancreas
11. Explain the Structure of Small Intestine
12. What are the Functions of Small Intestine?
13. Explain the Structure of Large Intestine
14. What are the functions of Large Intestine?
15. How is defaecation Controlled?
16. Sketch the Digestive System
17. How is fat Digested and Absorbed?

10 Mark Question

1. How is Carbohydrate Digested and Absorbed?
2. How is Protein Digested and Absorbed?
3. Explain Stomach and Gastric Juice
4. Explain the Structure and functions of Intestines

UNIT-IV RESPIRATORY SYSTEM

2 Mark Questions

1. Define respiration
2. Define inhalation
3. Define exhalation
4. What is Larynx
5. What are Bronchi?
6. What are Bronchioles?
7. What are Alveoli?
8. What are the Muscles involved in Breathing?
9. What are the Organs of Upper Respiratory System?
10. What are the Organs of Lower Respiratory System?

11. What is Otorhinolaryngology?
12. Who is a Pulmonologist?
13. How are the Bronchioles Divided?
14. What is Pleura and its Types?
15. How is Pharynx Divided?
16. What is Cellular Respiration?
17. What is A Diaphragm?
18. What are Primary Bronchioles?
19. What are Secondary Bronchioles?
20. What are the Muscles Involved in Respiration?
21. What is Bronchial Tree?
22. What is External Respiration?
23. Define Oxyhemoglobin.
24. What are the Types of Chemoreceptors?
25. Define Herring-Breuer Reflex.

5 Mark Questions:

1. Explain the Structure of Upper Respiratory Tract
2. Explain the Structure of Lower Respiratory Tract
3. Explain about Exchange of Gases in Lungs
4. Explain the Functions of Nostrils
5. Explain the Structure and Functions Of Pharynx
6. Explain the Chemoreceptors involved in Control of respiration.

10 Mark Questions

1. Explain the structure of Respiratory System.
2. Explain the Mechanism of Respiration.
3. How is Respiration Controlled?

UNIT-V NERVOUS SYSTEM AND ENDOCRINE SYSTEM

2 Mark Questions:

1. Define Neuron
2. What are Nerve Impulses?
3. How is Nervous System Divided?
4. What is Central Nervous System?

5. What is Peripheral Nervous System?
6. What are the types of Ans?
7. What is Autonomic Nervous System?
7. What is Grey Matter?
8. What is White Matter?
9. What are the types Of Neurons?
10. What is Myelin Sheath?
11. What are Axons?
12. What are Dendrites?
13. What are Schwann Cells?
14. What are the Nodes of Ranvier>
15. What are the Meninges?
16. What are the Ventricles Of Brain?
17. What is CSF?
18. What are the Hemispheres of Brain?
19. What are the Lobes of Brain?
20. What is Gyri?
21. What are the Functions Of Cerebral Cortex?
22. How is Brain Stem Divided?
23. What are Spinal Reflexes?
24. What is a Synapse?
25. What is Acetylcholine?
26. What is a Gland?
27. What is a Duct?
28. Name the Hormones of Anterior Pituitary.
29. Name the Hormones of Posterior Pituitary.
30. What is Adenohypophysis?
31. What is Neurohypophysis?
32. What is Vasopressin?
33. What are the Zones of Adrenal Cortex?
34. What are the Gonadal Hormones?
35. What are the Hormones of Pancreatic Islets?
36. What are the Hormones Secreted by Adrenal Gland?

37. Define Endocrinology.

38. Define Homeostasis

5 Mark Questions:

1. Explain the Structure of Nerve Cell
2. What is CSF and Its Functions?
3. Explain Brain Stem
4. Explain Spinal Cord and its Functions
5. Explain the Functions of Autonomic Nervous System.
6. Sketch the Structure of Brain
7. What are the Functions of Cerebrum?
8. Explain the Pituitary Gland its Functions.
8. Explain about Thyroid Gland its Functions.
9. Explain about Parathyroid Gland its Functions.
10. Explain about Adrenal Gland its Functions.
11. Explain the Hormones of Anterior Pituitary and its Functions.
12. Explain about Pancreas its Functions.

10 Mark Questions:

1. Explain the Structure of Brain With a Neat Sketch
2. Explain Autonomic Nervous System And its Functions
3. Explain the Structure of Spinal Cord with a Neat Sketch
4. Explain the Structure of Brain stem with a Neat Sketch.
5. Explain the Endocrine System and Hormones Secreted.