

FIRST B.H.M.S. DEGREE EXAMINATION
(New Regulation – From 2015-2016 Batch onwards)

PAPER IV – PHYSIOLOGY - I

Q.P. Code : 581504

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define blood. Explain in detail about the Erythropoiesis and the factors influencing it.
2. Define cardiac cycle. Explain about the various events of Cardiac cycle.

II. Write Notes on:

(10 x 5 = 50)

1. Phagocytosis.
2. Blood groups.
3. Properties of skeletal muscle.
4. Countercurrent mechanism.
5. Surfactants.
6. Lung volumes.
7. Valves of the heart.
8. Juxtaglomerular apparatus.
9. Functions of skin.
10. Homoeostasis.

III. Short Answers on:

(10 x 2 = 20)

1. Heart sounds.
2. Cyanosis.
3. Immunoglobulins.
4. Hypothermia.
5. Atonic bladder.
6. Functions of neutrophils.
7. Hemostasis.
8. Anticoagulants.
9. Myosin.
10. Functions of spleen.

FIRST B.H.M.S. DEGREE EXAMINATION - SUPPLEMENTARY
(New Regulation – From 2015-2016 Batch onwards)

PAPER IV – PHYSIOLOGY - I

Q.P. Code : 581504

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define cardiac output. Explain the variations factors regulating the cardiac output.
2. Define Anaemia. Explain in detail about the classification of anaemia and give a note on megaloblastic anaemia.

II. Write Notes on:

(10 x 5 = 50)

1. Electro Cardio Gram.
2. Respiratory centre.
3. Renin - angiotensin mechanism.
4. Blood transfusion.
5. Renal failure.
6. Rh factor.
7. Clotting mechanism.
8. Oxygen dissociation curve.
9. Arterial pulse.
10. Plasma proteins.

III. Short Answers on:

(10 x 2 = 20)

1. Apnea.
2. Respiratory membrane.
3. Pulmonary edema.
4. Lysosomes.
5. Erythroblastosis fetalis.
6. Lymph.
7. Layers of skin.
8. SA Node.
9. Bainbridge reflex.
10. Thrombosis.

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PAPER IV – PHYSIOLOGY - I

Q.P. Code : 581504

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. What is Spirometer, explain in detail about the different volumes and capacities of lung?
2. Define Heart rate and its variations and mechanism of regulation of heart rate.

II. Write Notes on:

(10 x 5 = 50)

1. Plasma proteins.
2. Surfactant.
3. Juxtaglomerular apparatus.
4. Basal Metabolic Rate.
5. Caisson's disease.
6. Erythroblastosis fetalis.
7. Organ of Corti.
8. ABO blood groups.
9. Renal failure.
10. Structure of skin.

III. Short Answers on:

(10 x 2 = 20)

1. SCUBA.
2. Lysosomes.
3. Tight junction.
4. Wallerian degeneration.
5. Arterial pulse.
6. Erythrocyte Sedimentation Rate.
7. Hypothermia.
8. Webbers test.
9. Specific dynamic action.
10. Types of antibodies.

FIRST B.H.M.S. DEGREE EXAMINATION
(Supplementary Examination)

PAPER IV – PHYSIOLOGY - I

Q.P. Code : 581504

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Write in detail about regulation of respiration and mechanism of respiration.
2. Define Juxtra glomerular apparatus, explain about the structure and function of Juxtra glomerular apparatus.

II. Write Notes on:

(10 x 5 = 50)

1. Blood groups.
2. Natural killer cell.
3. Counter current multiplier.
4. Neuro – muscular junction.
5. Surface tension.
6. Renal Function Test.
7. Structure of skin.
8. Micturation.
9. Heart block.
10. Electro Cardio Gram.

III. Short Answers on:

(10 x 2 = 20)

1. Anticoagulants.
2. Organ of Corti.
3. Pacemaker.
4. DNA.
5. Lymph.
6. Tidal volume.
7. Nerve of emptying.
8. Cyanosis.
9. Rigor mortis.
10. Immunoglobulins.

[LL 1504]

OCTOBER 2017

Sub. Code: 1504

FIRST B.H.M.S. DEGREE EXAMINATION
(New Regulation – From 2015-2016 Batch onwards)

PAPER IV – PHYSIOLOGY - I

Q.P. Code : 581504

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Define Erythropoiesis. List the different stages of Erythropoiesis and explain in detail.
2. Define cardiac cycle. Explain various events during each cardiac cycle.

II. Write Notes on:

(10 x 5 = 50)

1. Spirometry.
2. Micturition reflex.
3. Erythroblastosis Foetalis.
4. Peculiarities of renal circulation.
5. Functions of spleen.
6. Surfactant
7. Colour blindness.
8. Artificial respiration.
9. Lymph - its composition and function.
10. Homeostasis.

III. Short Answers on:

(10 x 2 = 20)

1. Nitrogen Narcosis.
2. Pneumothorax.
3. Name the respiratory centres.
4. Acidosis.
5. Bence Jones protein.
6. Hypothermia.
7. Cyanosis.
8. Lymph.
9. Deoxyribo Nuclie acid.
10. Thrombocytopenic Purpura.

**FIRST B.H.M.S. DEGREE EXAMINATION
(Supplementary Examination)**

PAPER IV – PHYSIOLOGY - I

Q.P. Code : 581504

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Give the definition and normal values of lung volumes and lung capacities and explain the measurement of the same.
2. Define arterial Blood Pressure. Describe the nervous regulation of arterial Blood Pressure.

II. Write Notes on:

(10 x 5 = 50)

1. Define Cardiac output and Measurement of C.O. using Fick's Principle.
2. Heart sounds.
3. Sliding Theory of Muscular Contraction.
4. Diffusion.
5. Cell mediated immunity.
6. ECG.
7. Erythropoiesis.
8. Oxygen – Hemoglobin dissociation Curve.
9. Juxta Glomerular Apparatus.
10. Regulation of Body Temperature.

III. Short Answers on:

(10 x 2 = 20)

1. Sodium – Potassium pump.
2. Bainbridge Reflex.
3. Lifespan of RBCS with its fate.
4. Hering – Breuer Reflex.
5. Functions of WBC's.
6. Latent period.
7. Counter – Current Exchanger.
8. Stokes – Adams syndrome.
9. Motor Unit.
10. Dialysis.

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Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail about Hematopoiesis. Mention the factors necessary for the same.
2. Explain mechanism of respiration and explains ventilation and transport of respiratory gases.

II. Write Notes on:

(10 x 5 = 50)

1. Spirometer.
2. Functions of spleen.
3. Surfactants.
4. Structure and functions of skin.
5. Micturition reflex.
6. Transport across the cell membrane.
7. Caisson's Disease.
8. Plasma proteins.
9. Blood Transfusion.
10. Glomerular filtration rate.

III. Short Answers on:

(10 x 2 = 20)

1. Platelets.
2. Myosin.
3. Cyanosis.
4. Define pulse.
5. Tissue macrophages.
6. Weber's test.
7. Megaloblastic anemia.
8. Renal threshold.
9. Heart sounds.
10. Respiratory membrane.

[LN 1504]

OCTOBER 2018

Sub. Code: 1504

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(New Regulation – From 2015-2016 Batch onwards)

PAPER IV – PHYSIOLOGY - I

Q.P. Code : 581504

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 15 = 30)

1. Describe about the process of formation of urine.
2. Write an essay about heart sounds.

II. Write Notes on:

(10 x 5 = 50)

1. Functions of Plasma Proteins.
2. Functions of Reticulo-Endothelial system.
3. Basal metabolic Rate.
4. Radial pulse.
5. Hypoxia.
6. ABO blood groups.
7. Lewis triple response.
8. Iron deficiency anemia.
9. Periodic breathing.
10. Nephron and its functions.

III. Short Answers on:

(10 x 2 = 20)

1. Innate immunity.
2. Sweat gland.
3. AV Node.
4. All or None law.
5. Define thrombosis.
6. Balanced diet.
7. Astigmatism.
8. Heart block.
9. SCUBA.
10. ESR.
