

MP Medical Science University, Jabalpur**B.P.T.H. 1st Year Supplementary Examination January- 2018****HUMAN PHYSIOLOGY****Maximum Marks : 100****Time : 3 Hours**

Note : (a) All questions are compulsory to answer.
 (b) Draw diagram wherever necessary.
 (c) Answer of question and sub question must be written strictly according to the serial order of question paper.

Q. No. 1 Very short answer the question (50-60 words) **2X10=20**

- a. Define sarcomere. Write normal length of sarcomere.
- b. Define homeostasis. Give two examples of homeostasis
- c. Name different organelles of a cell.
- d. Write composition of blood
- e. Define synapse. Write types of synapses.
- f. Define receptors. Give examples of receptors
- g. Write functions of liver
- h. Define cardiac output. Write its normal value.
- i. What is Tidal Volume? Write its normal range
- j. Hormones of Adrenal Gland

Q. No. 2 Short Answer the question (250-300 words) **10X5=50**

- a. Wallerian Degeneration
- b. Intrinsic Mechanism of blood coagulation
- c. Cell Mediated Immunity
- d. Functions of Cerebellum
- e. How oxygen is transported in body

Q. No. 3 Essay type question any two (450-500 words) **15X2=30**

- a. Describe mechanism of skeletal muscle contraction.
- b. Name hormones of thyroid gland. Describe physiological actions of hormones of thyroid gland.
- c. Structures and properties of cardiac muscle.

17P0002

**Madhya Pradesh Medical Science University
B.P.Th. 1st Year Examination February- 2017
Human Physiology**

Time: 3 Hours

Maximum Marks: 100

Note: (a) All questions are compulsory to Answer.

(b) Draw diagrams wherever necessary.

(c) Answer of question and sub question must be written strictly according to the serial order of question paper.

I. Very short answer type Question (50 -60 word only) (10x2=20)

- A. Define blood pressure and write its normal value
- B. Define Motor Unit
- C. Define GFR(Glomerular Filtration Rate) and Write its normal value
- D. Surfactant
- E. Content of gastric juice
- F. Name the two excitable tissues
- G. Enumerate properties of skeletal muscle

II. ADH

- I. Enumerate hormones of Anterior Pituitary
- J. Define Renal clearance

2. Short answer type Question (250 -300 word only) (10x5=50)

- A. Erythropoiesis
- B. Neuromuscular Junction
- C. Action potential in a nerve
- D. Short term regulation of blood pressure
- E. Cardiovascular and Respiratory changes during exercise.

3. Essay Types Question (Any Two**) (450-500 word Only) (15x2=30)**

- A. Excitation Contraction coupling in skeletal muscle
- B. Nervous and chemical control of Breathing
- C. Cardiac Output and factors affecting it

MP Medical Science University, Jabalpur**B.P.T.H. 1st Year Main Examination April – 2018****HUMAN PHYSIOLOGY**

Time : 3 Hours

Maximum Marks : 100

- Note : (a) All questions are compulsory to answer.
 (b) Draw diagram wherever necessary.
 (c) Answer of question and sub question must be written strictly according to the serial order of question paper.

Q. No. 1 Very short answer the question (50-60 words) 2X10=20

- a. Define active transport. Give examples of Active Transport. *cell*
- b. Functions of blood. *Blood*
- c. Enumerate blood clotting factors. *Blood*
- d. Myopia & Hypermetropia. *Sees*
- e. Write Enzymes present in Pancreatic Juice. *G.I.T*
- f. Define EDEMA. *Blood*
- g. Define Apnoea and Hypoxia *Respiratory*
- h. Oxygen debt. *Respiratory*
- i. Surfactant. *Respiratory*
- j. Define Contraception. Give examples. *Reproduction*

Q. No. 2 Short Answer the question (250-300 words) 10X5=50

- a. Micturition. *Renal*
- b. Coronary Circulation *CVS*
- c. Define Blood Pressure. Explain Short term regulation of blood pressure. *V.S*
- d. Corticospinal Tract *Nervous*
- e. Vestibular Apparatus *Senses*

Q. No. 3 Essay type question - Any Two (450-500 words) 15X2=30

- a. Explain mechanism of Smooth Muscles Contraction. *N.M. Physio*
- b. Describe impulse transmission at Neuromuscular Junction. Add a note on Myasthenia Gravis. *N.M. Physio*
- c. Chemical Control of Respiration. *Respiration*

Madhya Pradesh Medical Science University, Jabalpur
B.P.Th. 1st Year Main Examination January– 2020
Paper Code: - 20AP0000101721
Subject - Human Physiology

Time: 3 Hours

Maximum Marks: 100

Note: (a) All questions are compulsory to answer.
(b) Draw diagram wherever necessary.
(c) Answer of question and sub question must be written strictly according to the serial order of question paper.

Q.1 Very short answer the question (50-60 words)

$02 \times 10 = 20$

- a. Sick sinus syndrome
- b. Homeostasis
- c. Sarcomere
- d. Haemoglobin and its type
- e. GFR
- f. Diabetes Mellitus
- g. Hormones of posterior pituitary gland
- h. Refractory errors
- i. Endocochlear potential
- j. Seminal fluid

Q.2 Short Answer the question (250-300 words)

$10 \times 05 = 50$

- a. Describe pathway for blood coagulation
- b. Mechanism of HCl secretion and its regulation
- c. Describe functions of basal ganglia and comment on chorea
- d. Neural regulation of respiration
- e. Counter current multiplier

Q.3 Describe in details (450-500 words)

$15 \times 02 = 30$

- a. Define shock, types of shock and its stages
- b. Describe functions of glucocorticoids

Madhya Pradesh Medical Science University, Jabalpur
BPT 1st Year Main Examination January- 2019
Paper Code:- 19AP000016 721
Human Physiology

Maximum Marks: 100

Time: 3 Hours

Note: (a) All questions are compulsory to answer.
(b) Draw diagram wherever necessary.
(c) Answer of question and sub question must be written strictly according to the serial order of question paper.

02X10=20

Q.1 Very short answer the question (50-60 words)

- a. Phagocytosis
- b. B- lymphocytes
- c. Name different waves of ECG write normal duration of P wave & QRS complex
- d. Respiratory membrane
- e. Enumerate muscle proteins
- f. Growth hormone
- g. Bilirubin
- h. Antidiuretic hormone
- i. Stroke volume & ejection fraction
- j. Define withdrawal reflex and stretch reflex. give example of each

05X10=50

Q.2 Short Answer the question (250-300 words)

- a. Degenerative & regenerative changes after nerve injury
- b. Explain frank starling law in regulation of cardiac output
- c. Myoglobin
- d. Thyroid hormone
- e. Haemoglobin and its functions

02X15=30

Q.3 Describe in details (450-500 words)

- a. Describe the mechanism of skeletal muscle contraction
- b. Describe the mechanism of blood coagulation

HIGHLY CONFIDENTIAL

Madhya Pradesh Medical Science University, Jabalpur

B.P.T.H. Ist Year Supplementary Examination August– 2018

Paper Code: - 18BP0000101721

HUMAN PHYSIOLOGY

Maximum Marks : 100

Time : 3 Hours

Note :

- (a) All questions are compulsory to answer.
- (b) Draw diagram wherever necessary.
- (c) Answer of question and sub-question must be written entirely according to the serial order of question paper.

Q. No. 1 Very short answer the question (50-6 i words)

$2 \times 10 = 20$

- a. Define Homeostasis & give examples of homeostasis
- b. Enumerate different types of white blood cells.
- c. Enumerate different valves of heart
- d. Isometric and isotonic muscle contraction
- e. Write function of Saliva
- f. Define muscle tone
- g. Define total lung capacity and residual volume
- h. Define basal metabolic rate
- i. Peristalsis
- j. Enumerate hormones released from adrenal cortex

Q. No. 2 Short Answer the question (250-300 words)

$10 \times 5 = 50$

- a. Blood group
- b. Oxygen transport in blood.
- c. Define blood pressure. Explain the role of rennin angiotensin system in blood pressure regulation
- d. Wallerian degeneration
- e. Muscle spindle

Q. No. 3 Essay type question (450-500 words)

$15 \times 2 = 30$

- a. Explain mechanism of generation of action potential in a neuron
- b. Describe different phases of cardiac cycle
- c. Describe spermatogenesis. Write the changes occurring at puberty in human male & female