

Question Paper

Exam Date & Time: 10-Jun-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester II - End Semester Examination
June 2019

PHA-BP201T: Human Anatomy and Physiology-II (Theory)
Date : 10 / 06 /2019

Human Anatomy and Physiology-II [PHA-BP201T]

Marks: 75

Duration: 180 mins.

II Long Answers

Answer all the questions.

- 1) Describe the actions of sympathetic and parasympathetic system (10)
- Explain the synthesis, storage and release of thyroid hormones. Summarize the different cells and the functions of hormones secreted by anterior pituitary gland (10)
[6 +4]

III Short Answers

Answer all the questions.

- 1) Ms. Arathi was suffering from running nose, cold and sore throat that is affecting her ability to sing and talk. What are the structures involved and how are they affected? (5)
- 2) Explain the signal transmission at a chemical synapse (5)
- 3) Describe the functions of brain stem (5)
- 4) Describe the histology of nervous tissue (5)
- Draw a neat labelled diagram of kidney and explain its functions. (5)
- 6) Miss. Evelyn is looking forward to her mountaineering adventure in Himalayan range scheduled on 10th June 2019 . Her regular menstrual cycle begins during 7 to 10th of every month due to which she would be failing to participate in the expedition. In order to avoid the occurrence of menstruation during this period, what can she do to either advance or postpone her cycle. Give the underlying physiological principles. (5)
- 7) With a neat, labelled diagram, explain the different lung volumes and capacities (5)

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Question Paper

12/6/19

Exam Date & Time: 12-Jun-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Second Semester- End Semester Examination June 2019

PCH-BP202T: Pharmaceutical Organic Chemistry-I

Date : 12 / 06 / 2019

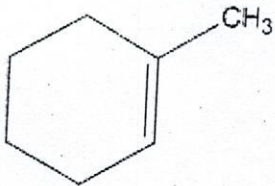
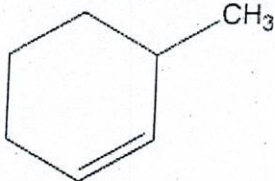
Pharmaceutical Organic Chemistry-I [PCH-BP202T]

Marks: 75

Duration: 180 mins.

III Short Answers

Answer all the questions.

- 1) Draw the structures for the following IUPAC names: 1M x 5 = 5M (5)
- a) 4-Ethyl-3-Methylheptane
b) 1-Bromo-5-Chloro-2-pentanone
c) Tertiary butyl alcohol
d) 2-Methylprop-1-ene
e) 1-Bromo-2-Methylcyclobutane
- 2) What are alkanes? Describe in detail, the hybridization state in alkanes. (5)
- 3) Write the IUPAC name and indicate the most stable compound of the following. Justify your answer. (5)
- a)  b) 
- 4) Discuss in brief, the stability of dienes with an example. (5)
- Differentiate aldol and crossed aldol reaction with an example. Propose the mechanism for aldol reaction. (5)
- 6) 6a). Explain the effect of substituents on basicity of aliphatic amines. 3 (5)
M
6b). Give the effect of stereochemistry in SN1 reactions with an example. 2
M
- 7) Give the structure and uses of the following: 1M x 5 (5)
= 5M
- a) formaldehyde
b) methyl salicylate
c) benzyl benzoate
d) paraldehyde
e) cetosteryl alcohol

Question Paper

Exam Date & Time: 14-Jun-2019 (09:30 AM - 12:30 PM)

14/6/19



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester II - End-Semester Examination

PBT-BP203T: Biochemistry

June -2019

Date : 14 / 06 / 2019

Biochemistry [PBT-BP203T]

Marks: 75

Duration: 180 mins.

II Long Answers

Answer all the questions.

- 1) Sketch the following pathways of carbohydrate metabolism: (10)
 - a) Phosphogluconate pathway
 - b) Energy generation phase of glycolysis with an account of ATP generation
- 2) With the help of a neat labelled diagram explain DNA replication in prokaryotes. Add a note on replication inhibitors. (10)

III Short Answers

Answer all the questions.

- 3) Define bioenergetics. Enlist the five major biomolecules with their building blocks and major function associated. (5)
- 4) Write short notes on the following: (5)
 - a) Salvage pathway for purine nucleotide biosynthesis
 - b) Glycerol Phosphate shuttle
- 5) Give the enzyme defect, clinical manifestations, diagnosis and treatment associated with phenylketonuria. (5)
- 6) Explain the steps involved in the formation of Urobilin from bile pigments. (5)
- 7) What are ketone bodies? Explain the process of ketogenesis. (5)
- 8) What are enzyme inhibitors? Write short notes on competitive inhibition. (5)
- 9) Give the IUB classification of enzymes and mention a specific reaction under each class. (5)

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Question Paper

Exam Date & Time: 17-Jun-2019 (09:30 AM - 12:30 PM)

17/6/19



MANIPAL ACADEMY OF HIGHER EDUCATION

B.Pharm Semester II- End-Semester Examination
June 2019

PPR-BP204T: Pathophysiology
Date : 17 / 06 / 2019

Pathophysiology [PPR-BP204T]
II Long Answers

Answer all the questions.

- 1) Explain Vascular events of inflammation. (10)
- 2) Explain pathophysiology of Tuberculosis, clinical presentation and its diagnosis (10)

III Short Answers

Answer all the questions.

- 1) Explain cell cycle with neat diagram. (5)
- 2) Explain pathophysiology of angina. (5)
- 3) Explain nuclear changes in necrosis with the help of neat diagram. (5)
- 4) Define Diabetes. Explain different complications of diabetes mellitus. (5)
- 5) Describe the clinical presentation of chronic renal failure and its pathophysiology (5)
- 6) Explain pathophysiology of asthma and its diagnosis (5)
- 7) Describe pathophysiology of hyperparathyroidism (5)

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