Question Paper

Exam Date & Time: 19-Apr-2021 (02:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.O.T./ B.Sc. M.L.T./ B.Sc. P.F.T./ B. Sc. E.M.T./B.Sc. E.S.S./ B.Sc. N.M.T./B. Opt./ B.Sc. H.I.M./ BPT/ B.Sc. RADIOTHERAPY TECHNOLOGY/B.Sc. C.V.T./B.Sc. R.T./ B.Sc. M.I.T./B.Sc. RRT&DT DEGREE EXAMINATION - APRIL 2021

SUBJECT: ANAT 103/ANAT 101 - ANATOMY-I/ANATOMY (2016 RV/2018/2019 SCHEME)

Marks: 50 Duration: 120 mins. Answer all the questions. Name the endocrine glands. Describe the thyroid gland in detail. 1) (10)(4+6 = 10 marks)2) Name the components of the extra-hepatic biliary apparatus. Describe the liver in detail. (10)(4+6 = 10 marks)3. Write Short Notes on: Fibre system (white matter) of cerebrum 3A) (5)3B) Prostate (5)3C) Kidneys (5)3D) Blood supply to the heart (5)4. Write Short Notes on: Cartilage (2)4A) 4B) Larynx (2)Large intestine (2)4C) 4D) Lungs (2)Uterine tube 4E) (2)

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Question Paper

Exam Date & Time: 21-Apr-2021 (02:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.O.T. / B.Sc. M.L.T. / B.Sc. P.F.T. / B.Sc. AOTT / B.Sc. E.S.S. / B. Opt. / B.Sc. H.I.M. / BPT / B.Sc. C.V.T. / B.Sc. RADIOTHERAPY/B.Sc. R.T. / B.Sc. M.I.T. / B.Sc. RRT&DT DEGREE EXAMINATION - APRIL 2021 SUBJECT: PHYS 101 - PHYSIOLOGY- I / PHYSIOLOGY (2016 RV/2019 SCHEME)

Marks: 50 Duration: 120 mins.

Answer all the questions.

1A)	Name different stages of erythropoiesis. Mention any two developmental changes occurring during different stages of erythropoiesis.	(5)
1B)	Write the steps involved in intrinsic pathway of blood coagulation in the form of a flow chart.	(5)
2A)	Describe left ventricular pressure and volume changes during a cardiac cycle with the help of a graph.	(5)
2B)	Draw a neat labeled diagram of a normal ECG recorded from limb lead II. Mention the causes for different waves in ECG	(5)
3A)	Draw a neat labelled diagram of oxygen hemoglobin dissociation curve. Enumerate three factors shifting the curve to the right.	(5)
3B)	Name the types of refractory errors. Mention the cause and correction of the same	(5)
3C)	Describe the events that occur during neuromuscular transmission in the form of flow chart.	(5)
3D)	Write the differences between simple diffusion and active transport. Explain primary active transport with an example.	(5)
4A)	Write a note on impedance matching	(2)
4B)	Define vital capacity and give its normal value.	(2)
4C)	Name the contractile proteins of the skeletal muscle	(2)
4D)	Write two differences between rods and the cones.	(2)
4E)	Draw a labeled diagram of the nerve action potential	(2)



Question Paper

Exam Date & Time: 23-Apr-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. (RRT & DT) DEGREE EXAMINATION - APRIL 2021 SUBJECT: BDT 101 - KIDNEY DISEASE - I (2016 RV SCHEME)

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	Draw and label the tubular segments of the nephron and discuss the functions of each segment.	(20)
2)	Define renal autoregulation. Discuss the types of renal autoregulation and its importance.	(20)
3)	Discuss the indications for dialysis and explain any two absolute conditions.	(10)
4)	Discuss the types of dialysis therapies used for kidney disease.	(10)
5A)	Illustrate the vitamin D pathway.	(5)
5B)	Write a note on metabolic acidosis.	(5)
5C)	List the functions of a normal kidney that are not replaced by dialysis.	(5)
5D)	Write a note on conservative treatment strategies to prevent chronic kidney disease progression.	(5)
5E)	Define acute kidney injury. List the causes of acute kidney injury.	(5)
5F)	Write a note on extracellular fluid.	(5)
6A)	What is peritoneum?	(2)
6B)	Name any four chronic kidney disease symptoms.	(2)
6C)	Define buffer.	(2)
6D)	What is erythropoietin?	(2)
6F)	Define the Renal pyramid	(2)

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