MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. HEALTH SCIENCES DEGREE EXAMINATION - JUNE 2023
SUBJECT: BHS-206 - INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

Marks: 75   Duration: 180 mins.

SECTION A - ANATOMY

1. Answer the following questions briefly.

   1A) What is the type and subtype of knee joint? Name its articular surfaces.   (2)

   1B) Write about the blood supply of small intestine.   (2)

   1C) Name the parts of uterine tube.   (2)

   1D) Name the arteries supplying the pancreas.   (2)

   1E) Write about the levels of origin and termination of esophagus.   (2)

   1F) Name the contents of middle ear cavity.   (2)

   1G) Write any two external features of spinal cord.   (2)

   2. Answer the following questions.

   2A)   Describe briefly about the testis.   (3)

   2B) Write the features of brain stem.   (3)

   3.. Answer the following question.
   3A) Name the parts of urinary system. Describe the urinary bladder in detail.   (5)

SECTION B - PHYSIOLOGY

   4.   Answer the following questions briefly.

   4A) Name any TWO anticoagulants and describe their mechanism of action.   (2)

   4B) What is "Permissive action of hormones"? Give one example   (2)

   4C) List the components of Juxtaglomerular apparatus. Mention any one function of it.   (2)

   4D) Mention any two functions of HCl.   (2)
   4E) Explain the control of testicular function in the form of a flow chart.   (2)

   4F) Name the reflex by which near objects are clearly focused on the retina. Enumerate the changes

       that occur during this reflex.   (2)

   4G) Describe any two types of facilitated transport mechanisms in the body.   (2)

   5.. Answer the following questions.

   5A) With the help of a tabular column, mention any three differences between the first and second

       heart sounds.   (3)

   5B) Draw a labelled diagram depicting the process of carbon dioxide transport in bicarbonate form.   (3)

   6.. Answer the following question.

   Classify the WBCs and mention one function for each of the types of WBCs.   (5)