Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Development and congenital anomalies of the vertebral column.  
   6+4

   5+5

   10

   Add a note on retrocaval ureter.  
   (4+4)+2

5. Describe the phenomenon of compaction and the pathways of determination for normal development. Add a note on molecular regulation of these events.  
   (4+4)+2

   6+4

7. Development of conotruncal swellings, especially with reference to the congenital septal defects of heart.  
   6+4

   6+4

9. Enumerate the radiodiagnosing techniques for (a) visualization of gastrointestinal tract. (b) Draw diagram(s) to show the supracolic compartment of abdomen.  
   4+6

10. Describe the formation and circulation of lymphocytes in the body and their role in the immune system. Enumerate various subtypes of T-lymphocytes and their role in immune mechanism.  
    6+4

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