

**DIRECT 6 YEAR SUPER SPECIALTY COURSES (PART-I)**

**PAPER-I**

DIRECT/D/18/I

Time: 3 hours  
Max. Marks: 100

**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. Enumerate causes of non-healing ulcer in lower limb. How will you differentiate arterial ulcer from venous ulcer? Describe briefly management of venous ulcer. 3+3+4
2. a) Triage. 3+4+3  
b) What do you understand by primary survey in trauma?  
c) FAST.
3. a) What are the types of 'bias' in a study? 3+3+4  
b) How to calculate sample size for a study?  
c) What are the differences between research and clinical audit?
4. a) Different phases of normal wound healing. 5+5  
b) Necrotizing fasciitis: Etiopathogenesis and management.
5. a) Principles of Electro surgery. 5+5  
b) Advanced bipolar devices.
6. a) Principles of immunology in organ transplant. 5+5  
b) Use of artificial intelligence in surgical practice.
7. a) Discuss principles of fast track surgery- ERAS. 5+5  
b) Ergonomics in Minimal access surgery (MAS).
8. a) Informed consent. 3+3+4  
b) RET proto-oncogene and MEN syndrome Type-II.  
c) Breast cancer susceptible genes.

P.T.O.

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| 9.  | a) Cancer cachexia.<br>b) Immunotherapy in cancer.<br>c) Tumour markers.   | 3+4+3 |
| 10. | a) Artificial nutritional support.<br>b) Electrolyte disturbances in a case of gastric outlet obstruction.<br>c) Key points in management of ketoacidosis. | 4+3+3 |

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