

**GENERAL MEDICINE**  
**PAPER-I**

TIME: 3 HOURS  
MAX. MARKS: 100

MED/J/20/11/I

**IMPORTANT INSTRUCTIONS**

- This question paper consists of 10 questions divided into Part "A" and part "B", each part containing 5 questions.
- Answers to questions of part A and part B are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets of Part A and Part B are not to be tagged together.
- Part A and Part B should be mentioned only on the covering page of the respective answer sheets.
- 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:**

**PART A**

1. Define Basic Reproduction number ( $R_0$ ) and describe its importance in epidemiology of disease. 3+7
2. Describe the patho-physiology and diagnosis of SARS-CoV-2 infection. 5+5
3. Outline the mechanism of action, clinical uses and adverse effects of metformin. 3+4+3
4. Describe anti-neutrophilic cytoplasmic antibodies. Discuss their uses in Medicine and their interpretation. 3+(3+4)
5. Define Antimicrobial Stewardship. Discuss the components of an Antimicrobial Stewardship programme. 3+7

**P.T.O**

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**Please read carefully the important instructions mentioned on Page '1'**

- Answers to questions of Part A and part B are to be strictly attempted in separate answer sheets and the main + supplementary answer sheets used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheets of Part B or vice versa shall not be evaluated.

**PART B**

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|---|-------------|
| 6. Describe the physiology and regulation of sleep. Discuss the causes and treatment of Hypersomnolence.  | (3+2)+(3+2) |
| 7. Describe the regulation of bone remodeling. Outline the role of magnetic resonance imaging and radionuclide bone scan in musculoskeletal disease.          | 4+(3+3)     |
| 8. Describe the iron absorption in the body. Discuss the tests for the diagnosis of iron deficiency.  | 5+5         |
| 9. Describe the conducting system of the heart. Discuss the mechanism of re-entrant tachycardia and the essentials of radio frequency ablation.               | 3+(4+3)     |
| 10. Describe pulsus paradoxus and explain with a labelled diagram. Discuss clinical conditions associated with pulsus paradoxus and outline its significance. | (3+2)+(3+2) |

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