

IMMUNO HAEMATOLOGY AND BLOOD TRANSFUSION**PAPER-IV**Time: 3 hours
Max. Marks:100

IMHT/D/20/15/IV

Important Instructions:

- **You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.**
- **Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.**
- **No additional supplementary answer sheet booklet will be provided.**
- *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. Process of obtaining license for the operation of a Blood Bank/
Processing of Whole Human Blood for components. 10
2. Discuss in brief the quality control procedures involved in blood
transfusion services. Elaborate the quality control parameters of
platelet concentrate prepared by PRP method, Buffy coat method and
by apheresis method. 4+(2+2+2)
3. COVID-19 neutralizing antibodies. 10
4. Write in detail about the specific management of various categories of
hazardous waste in blood transfusion services. Add a note on general
bio-safety guidelines for blood bank staff. 7+3
5. Cellular therapies in trauma and critical care medicine. 10
6. Role of a "computerized provider order entry system" in blood utilization
review. Enumerate the advantages of automation in blood transfusion
services. 7+3
7. Jehovah's Witness and consent for blood transfusion in India. 10
8. Recent technologies available for screening for TTIs. Enumerate their
advantages. 7+3
9. Recent advances in methodology in typing of blood group antigens.
Enumerate its applications. 7+3
10. Umbilical cord blood banking services in India and its future. 7+3
