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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - MAY-2019

[Time: 3 Hours] **[Max. Marks: 100]**

TRANSFUSION MEDICINE

PAPER – I- Basic applied aspects related to Transfusion Medicine (including Haematology and Immunology)

Q.P. CODE: 9185

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Discuss iron metabolism and investigations to diagnosis early iron deficiency anaemia. (5+5)
2. Give an account of erythropoiesis in health and disease. (5+5)
3. Discus Glycoprotein receptors of platelets and their role in primary haemostasis. (5+5)
4. Define shock. Discuss about the pathophysiological changes and clinical manifestations of varying stages of hypovoleumic shock. (4+6=10)
5. Schematic illustration of the mechanism involved in Central and Peripheral Tolerance. (5+5)
6. Define and classify cytokines. Discuss their role in febrile non-haemolytic transfusion reaction. (5+5)
7. Discuss about point of care devices for haemostasis monitoring during prolonged surgeries. Add a note on advantages of Thromboelastography (TEG) over Routine Coagulation Tests (RcoT). (6+4)
8. Novel blood containers with alternative plasticizers. Add a note on leaching of phthalate esters in blood. (6+4)
9. Principles and types of leukocyte filters. (5+5)
10. Jehovah witness and cardiac surgery.

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