0419E040

Candidate's Seat No:

M.D. Examination

Immuno-Hematology & Blood Transfusion: Branch XIII

Paper-I

(Applied Basic Sciences)

•	(Applied Basic Sciences)	[Max. Marks: 100
Date: 02-04-2019, Tu Time: 3 Hours]	iesday]	.*
(2)	Figure to the right indicates marks. Write legibly and to the point. Draw diagrams wherever necessary.	
1 (a) Describe	briefly regulation of Oxygen delivery to the tissues	10
	yopoiesis and its regulation	10
2 (a) Write a r in Transf	note on complement system and its role fusion Medicine	10
	e briefly labile coagulation factors	10
3 (a) Write a	note on Major Histocompatibility class I antigens	10
(b) Discuss	the Role of hybridoma technology in transfusion m	nedicine 10
4 (a) Write s	short note on Erythropoietin	10
	note on development of polyvinyl chloride(PVC) blo	ood bags 10
5 (a) Discus	s briefly factors affecting Antigen-Antibody Reaction	ons 10
	ibe Bilirubin Metabolism	10

0419E088

Candidate's Seat No: ____

M.D. Examination

Immuno-Hematology & Blood Transfusion: Branch XIII

Immuno-Hematology & Blood Transfusion: Branch	
Paper II	[Max. Marks: 100
Date: 04-04-2019, Thursday	
Time: 3 Hours]	
Instructions: (1) Figure to the right indicates marks. (2) Write legibly and to the point. (3) Draw diagrams wherever necessary.	
	10
1. (a) Explain Hardy -Weinberg Law	
(b) Describe the techniques used for HLA antibody detection	n 10
	10
2. (a) Discuss the various factors affecting Antiglobulin test	20
	10
(b) Describe ABO blood group discrepancies	
	,
n	10
3. (a) Write a note on Pan-agglutination	10
(b) Explain briefly Kidd blood group system	10
	10
4. (a) Describe Red Cell Storage lesions	
4. (a) Describe	10
(b) Discuss critical steps in Pretransfusion testing	
a drama and Rh _{mod} Phenotype	10
5. (a) Explain Rhaull Syndrome and Rhand Phenotype	n -tableo
(b) How will you investigate a case of Severe Anemia w	vith Positive 10
Direct Antiglobulin Test	

Candidate's Seat No:

M.D. Examination

Immuno-Hematology & Blood Transfusion: Branch XIII

(Blood Centre Operation, Blood Preservation, Donor Organization & Technology of Components) [Max. Marks: 100 Date: 08-04-2019, Monday]

Time: 3 Hours]

	Figure to the right indicates marks.
Instructions: (1)	Figure to the noint.

- (2) Write legibly and to the point.
- (3) Draw diagrams wherever necessary.

(3) Draw diagrams wherever have	
 (a) Describe briefly innovative steps to improve donor motivation and recruitment for voluntary blood donation 	10
(b) Define Febrile non hemolytic transfusion reaction. Explain its pathophysiology and prevention.	10
 (a) Discuss the transfusion support in Disseminated Intravascular Coagulation 	10
(b) Describe the measures to prevent Bacterial contamination of blood products.	10
3 (a) Write a note on hematopoietic growth factors	10
(b) Describe the process of Equipment maintainence as per Drug Ar Cosmetics Rules, Government of India.	10
4. (a) Discuss briefly Specialized Therapeutic Hemapheresis	10
Techniques (b) Discuss the management of severe Hemophilia A with Inhibitor	rs 10
 (a) Write an SOP for preparation of Prestorage leucoreduced Platelets from whole Blood 	10
(b) Explain Root Cause Analysis with a suitable example	10

0419E179

Candidate's	Seat	No	:	
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M.D. Examination

Immuno-Hematology & Blood Transfusion: Branch XIII

Paper IV

(Modern Trends & Recent Advances)

(Modern Trends & Recent Advances)	(Max.	Marks: 100
Date: 10-04-2019, Wednesday]	•	
Time: 3 Hours		
Instructions: (1) Figure to the right indicates marks. (2) Write legibly and to the point. (3) Draw diagrams wherever necessary.		
		10
 (a) Describe the Donor Hemovigilance Program (b) Explain the salient features of National Plasma Policy 		10
2. (a) Write a note on rVII		10
(b) Explain Adoptive Immunotherapy		10
3. (a) Discuss the role of Transfusion Services in Disaster Management		10 10
(b) Explain in detail Scope and Rationale of Patient Blood Managem	ieni	
4. (a) Describe the Auditing process in Blood Banking		10
(b) Discuss briefly role of Prions Diseases in Blood Bank		10
5. (a) Write a note on Platelet refractoriness		10
(b) Role of Automation in Blood Transfusion Services		10
		4