NEONATOLOGY

PAPER - I

Time : 3 hours

Max. Marks: 100

NEONAT/D/10/19/I

Attempt all questions in order. Each question carries 10 marks.

1	Draw a flow chart to show steps in diagnosing a blood gas report.	10
2	Describe the pathophysiology of hypothermia in neonates.	10
3	Prepare a check list for reporting a randomized controlled trial.	10
4	Describe the pathophysiology of shock in neonates. Discuss the	10
	management of distributive shock	
5	Describe the pathogenesis, differential diagnosis and management	2+5+3
	of neonates with maculopapular rash.	
6	Describe the embryology and the hemodynamics of coarctation of	3+7
	aorta in neonates.	
7	Describe the mechanism of clotting of blood. What is the	6+4
	pathogenesis of disseminated intraocular coagulation?	
8	Tabulate the recommended intake of nutrients in very low birth	10
	weight neonates.	
9	Describe the etiological factors for retinopathy of prematurity and	4+6
	classification severity of retinopathy of prematurity.	
10	Describe the pathophysiology of neonatal sepsis.	10

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PAPER - II

Time : 3 hours Max. Marks : 100

NEONAT/D/10/19/II

Attempt all questions in order. Each question carries 10 marks

Write short notes on:

2 3	Early diagnosis and management of patent ductus arteriosus. Aetiology, prevention and management of respiratory distress in hyaline membrane disease.	10 5+5 3+4+4
4		
5	Parameters that can be used to optimize ventilator settings.	10
6	Management of persistent pulmonary hypertension.	10
7	Diagnostic and management of congenital toxoplasmosis.	10
8	Diagnostic approach to hypocalcemia in neonates.	10
0	Approach to a child with conjugated hyperbilirubinemia at the age	10
	of 20 years. days	
9	New resuscitation (AAP) guidelines modified by ILCOR in October	. 10
	2010.	. 10
10	ECG changes associated with electrolyte imbalance or disorders.	10

NEONATOLOGY

PAPER - III

Time : 3 hours Max. Marks : 100

NEONAT/D/10/19/III

Attempt all questions in order. Each question carries 10 marks

Write short notes on:

1	Rational use of antibiotic in neonatal sepsis.	10
2	"Janani Suraksha Yojna" and its role and limitation in reducing	10
	neonatal mortality.	
3	Norms for physical facilities, equipments and manpower for a level	10
	Il neonatal unit.	
4	Modalities of non-invasive ventilation in neonates. Outline the	6+4
	advantages and disadvantages of these various modalities.	
5	How would you assess and interpret muscle tone up to 1 year age	5+5
	in a follow up clinic using Amiel Tisson approach.	
6	What are the hearing screens for high risk neonates? How would	3+7
	you interpret brain stem evoked auditory response?	
7	Clinical features, diagnosis and management of Hirschsprung	4+3+3
	disease in neonates.	
8	Role and utility of prostaglandin in congenital cyanotic heart	10
	disease.	
9	Prevention and management of necrotising enterocolitis.	4+6
10	Prevention and management of necrotising enterocolitis.	4+6