# POST DOCTORAL FELLOWSHIP - NEONATOLOGY EXAMINATION, FEBRUARY - 2022

#### PAPER ONE BASIC MEDICAL SCIENCES

[Time allotted: Three hours]		Max Marks: 100]
Note:	Attempt all questions and each question carries <b>10</b> marks Illustrate with suitable diagrams and flowcharts wherever possible.	
Q. 1.	Describe the pathophysiology and management of apnea of prematurity.	
Q. 2.	Write short note on embryology of the Heart.	
Q. 3.	Describe bilirubin metabolism in newborns.	
Q. 4.	Write short note on sodium homeostasis in newborns.	
Q. 5.	Discuss definition of Late preterm and early term. Discuss prevention and morbiditie babies.	s of Late preterm
Q. 6.	What are levels of Neonatal care? Discuss how to set up a level III Neonatal unit?	
Q. 7.	Discuss various growth charts used in neonatology.	
Q. 8.	Write short note on anti-infective factors present in human milk.	
Q. 9.	Discuss surfactant and its role in Neonatology.	
Q. 10.	• Write short note on principles behind Aseptic non-touch technique.	

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### PAPER TWO CLINICAL SPECIALITY

[Time allotted: Four hours]		[Max Marks: 200]
Note:	Attempt all questions and each question carries <b>20</b> marks Illustrate with suitable diagrams and flowcharts wherever possible.	
Q. 1.	Define acute kidney injury in neonates and discuss its causes and management.	
Q. 2.	Discuss approach and management of :	
	a. Rh isoimmunized mother with an ICT titre of 1:256 in second trimester	
	<b>b.</b> Neonate born to this Rh isoimmunized mother	
Q. 3.	Discuss about management and prevention of extrauterine growth restriction.	
Q. 4.	Discuss various aspects of Retinopathy of Prematurity screening in Neonatology.	
Q. 5.	Discuss pathophysiology of Shock & outline principles of its management & prev	vention
Q. 6.	Discuss common modes of ventilation in Neonatology.	
Q. 7.	What are causes of neonatal encephalopathy? Discuss comprehensive management	nt of Neonatal
	Encephalopathy.	
Q. 8.	Discuss principles of diagnosis and management of Persistent pulmonary hyperten	nsion of newborn.
Q. 9.	Discuss in brief pathophysiology, clinical features, management, and prevention of	of intraventricular
	hemorrhage in preterm neonates.	
Q. 10.	Discuss optimal cord management at the time of birth of neonate.	
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### PAPER THREE SOCIAL, PUBLIC HEALTH, RECENT ADVANCES

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions and each question carries 10 marks Illustrate with suitable diagrams and flowcharts wherever possible.	
Q. 1.	Discuss diagnosis, approach, and management of MISC-N related to COVID 19	).
Q. 2.	Write short note on:	
	a. Capnography	
	<b>b.</b> Role of NIRS in neonatology.	
Q. 3.	Discuss in brief Amplitude integrated EEG in neonates.	
Q. 4.	Write short note on salient features of India Newborn Action Plan (INAP).	
Q. 5.	What is a ROC curve in statistics? Describe its utility and drawbacks in clinical	studies.
Q. 6.	Write a short note on human milk banking.	
Q. 7.	Discuss in brief on immediate Kangaroo mother care (iKMC).	
Q. 8.	Describe evidence based important strategies to reduce neonatal mortality and normality.	norbidity in
Q. 9.	Define nosocomial infection. Describe measures to control an outbreak of neona NICU.	atal sepsis in your
Q. 10.	Discuss role of point of care ultrasonography in NICU.	
	X	