

QP Code:

Reg No:.....

**DM (NEONATOLOGY) DEGREE EXAMINATIONS**

**(Model Question Paper)**

**Paper I - Basic Sciences, Perinatology, Resuscitation, Equipment in neonatal care**

**Time: 3hrs**

**Max marks: 100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essay:**

**(20)**

1. Describe the salient features of the placenta in maternal and fetal disorders.

**Short essays:**

**(8X10 = 80)**

2. Describe cardiorespiratory adjustments at birth.
3. Pulse oximetry in the neonatal ICU.
4. Assessment of fetal wellbeing during pregnancy.
5. Histopathological changes in the brain in kernicterus.
6. Delayed cord clamping – risks and benefits.
7. Principle and practice of patient triggered ventilation.
8. Development of structure and function of the skin through gestation.
9. Management of fetal tachycardia in pregnancy.

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**Paper II – Community Neonatology & Essential Newborn Care**

**Time : 3hrs**

**Max marks : 100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essay :**

**(20)**

1. What are the goals and guiding principles of INAP. What are the intervention packages designed to achieve these.

**Short essays:**

**(8X10 = 80)**

2. Thermoregulation in a tribal area PHC.
3. What are the nutrient requirements of a term infant
4. What are NSSK and JSSK
5. What are the problems facing low birth weight infants and community based approach for dealing with them
6. What are the advantages and disadvantages of KMC
7. Initiation of breastfeeding – timing and challenges.
8. Delayed passage of meconium.
9. Immunization schedule for newborn babies.

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**Paper III – Clinical Neonatology**

**Time: 3hrs**

**Max marks : 100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essay:**

**(20)**

1. A 700gms 26 week pre term is delivered by vaginal delivery. Please outline the course of proposed diagnoses, treatment, complications and follow up.

**Short essays:**

**(8X10 = 80)**

2. Diagnosis, treatment and follow up of neonatal meningitis.
3. Pierre Robin syndrome.
4. Approach to a well baby with thrombocytopenia.
5. Etiology and work up for a non immune hydrops baby.
6. Approach to newly born baby with ambiguous genitalia – medical and social aspects.
7. Treatment of refractory hypoglycemia in a two days old infant.
8. Transportation of a newborn with cyanotic heart disease.
9. Work up and diagnosis of apnea in a ten days old 32 week pre term.

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**Paper IV – Recent Advances, Research Methodology, Allied Disciplines (eg Pediatric Surgery) Neurodevelopmental follow – up, Rehabilitation etc.**

**Time : 3hrs**

**Max marks : 100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essay :**

**(20)**

1. Therapeutic Hypothermia – recommendations and use as neuroprotective method in perinatal asphyxia. What are the long term results of such treatment

**Short essays :**

**(8X10 = 80)**

2. Recent advances in management of retinopathy of prematurity.
3. Diagnosis and management of developmental dysplasia of the hip.
4. Newer drugs in neonatal shock.
5. Algorithm for postnatal workup of antenatal renal collecting system dilatation.
6. Newborn screening in India.
7. Sample size estimation.
8. NIDCAP.
9. Compare DDST, Bailey and DASII.