

SYLLABUS FOR DOCTOR OF MEDICINE (D.M.) in NEONATOLOGY

Theory papers

1.1 There shall be four theory papers / each paper of

4. Instructions to examiners

a) The question papers for the examinations will be set by the internal members of the Board for the following papers

Paper I, Paper II, Paper III and Paper IV (each paper of 100 marks –total 400 marks)

b) Each question paper will have ten questions. All the questions should be of 3*1/2 marks. eg 3*1/2 = 4.5

- Principles and Practices of Neonatology

- Perinatology

- Perinatal mortality, morbidity, epidemiology

- Detection, monitoring and management of high risk pregnancy

- Antepartum fetal monitoring including Doppler of fetal vessels

- Intrapartum fetal monitoring and procedures

- Disorders during pregnancy monitoring, evaluation, assessment of fetal risk, d00.3 0 Td / 11.10 11/12.0rec

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- Acyanotic Heart Diseases
- Cyanotic Heart Diseases
- Rhythm disturbances
- Hypertension in neonates
- Shock Pathophysiology, monitoring, management
- Functional echocardiography
- Gastrointestinal system
 - Disorders of liver and biliary system
 - Bilirubin metabolism
 - Neonatal jaundice diagnosis, monitoring, management,

- Thyroid disorder Hypothyroidism, hyperthyroidism
- Adrenal disorders
- Ambiguous genitalia
- Inborn errors of metabolism
- Hematology
 - Physiology
 - Anemia
 - Polycythemia
 - Hemolytic Anemia – Rh Diseases, ABO incompatibility
 - Bleeding and coagulation disorders
- Neurology
 - Clinical neurological assessment
 - Interpretation of EEG, Ultrasonography, CT Scan, MRI
 - Conducting an EEG and USG
 - Neonatal seizures
 - Intracranial hemorrhage
 - Brain edema
 - Hypoxic Ischemic Encephalopathy
 - Neuro-muscular disorders
 - Degenerative diseases
 - CNS malformations and neural tube defects
- Neonatal infections
 - Intrauterine infections
 - Superficial infections
 - Diarrhea
 - Septicemia
 - Meningitis
 - Osteomyelitis and Arthritis
 - Pneumonia
 - Miscellaneous infective disorders
 - Management of epidemic
 - Nosocomial infection surveillance

Paper IV: Community neonatology, allied specialties, neurodevelopmental evaluation, organization of newborn units, recent advances

- Neonatal ophthalmology
 - Developmental aspects
 - Retinopathy of prematurity
- Neonatal dermatology
- Transport of neonates
- Neonatal procedures
- Developmental assessment and follow up
- Organization and management of neonatal care
- Recent advances in the field of neonatology