

**FURTHER DETAILS REGARDING MAIN TOPICS OF**  
**PROGRAMME NO. 03/2018/ONLINE (Item No.1,2)**

**SENIOR LECTURER IN PAEDIATRICS**  
**(NCA NOTIFICATION)**  
**MEDICAL EDUCATION**  
**(CATEGORY No.040/17,198/17)**

**Growth and development:**

- Principles of growth and development
- Normal growth and development
- Sexual maturation and its disturbances
- Childhood and adolescence
- Failure to thrive and short stature

**Neonatology**

- Perinatal care
- Low birth weight
- Care in the labor room and resuscitation \_
- Newborn feeding
- Prematurity
- Respiratory distress
- Common transient phenomena
- Infections
- Anemia and bleeding disorders
- Jaundice
- Neurologic disorders
- Renal disorders
- Understanding of perinatal medicine
- Thermoregulation and its disorders

**Behavioral & Developmental disorders**

- Rumination
- Pica
- Enuresis
- Encopresis
- Sleep disorders
- Habit disorders
- Breath holding spells
- Anxiety disorders
- Mood disorders - temper tantrums
- Attention deficit hyperactivity disorders
- Autism

**Social pediatrics**

- National health programs related to child health \_ child abuse and neglect
- Child labor
- Adoption
- Disability and rehabilitation
- Rights of the child

- National policy of child health and population
- Juvenile delinquency

### **Genetics**

- Principles of inheritance
- Pedigree drawing
- Chromosomal disorders
- Single gene disorders
- Multifactorial/polygenic disorders
- Genetic diagnosis
- Prenatal diagnosis

### **Nutrition**

- Maternal nutritional disorder
- Nutrition for the low birth weight
- Breast feeding
- Infant feeding including vitamin and mineral deficiencies
- Complementary feeding
- Protein energy malnutrition
- Obesity
- Adolescent nutrition
- Parenteral and enteral nutrition
- Nutritional management of neonates and children
- In systemic illness like celiac disease, hepatobiliary disorders, nephrotic syndrome

### **Cardiovascular**

- Congenital heart diseases - cyanotic and acyanotic
- Rheumatic fever and rheumatic heart disease
- Infective endocarditis
- Arrhythmias
- Disease of myocardium and pericardium
- Systemic hypertension
- Hyperlipidemia in children

### **Respiratory**

- Congenital and acquired disorders of nose
- Infections of upper respiratory tract
- Obstructive sleep apnea
- Congenital anomalies of lower respiratory tract
- Foreign body in larynx, trachea & bronchus
- Trauma to larynx
- Neoplasm of larynx and trachea chronic
- Bronchitis
- Bronchiolitis
- Aspiration pneumonia
- GER

- Acute pneumonia
- Recurrent and interstitial pneumonia
- Suppurative lung diseases like bronchiectasia
- Atelectasis
- Lung cysts
- Emphysema and hyper-inflation
- Bronchial asthma
- Pulmonary edema
- Pleural effusion
- Pulmonary leaks
- Mediastinal mass

### **Gastrointestinal and liver disease**

- Disease of mouth, oral cavity and tongue
- Disorders of deglutition and esophagus
- Peptic ulcer disease
- H. pylori infection
- Foreign body
- Congenital pyloric stenosis
- Intestinal obstruction
- Malabsorption syndrome
- Acute and chronic diarrhea
- Irritable bowel syndrome
- Inflammatory bowel diseases- ulcerative colitis and Crohn's disease
- Hirschsprung's disease
- Anorectal malformations
- Hepatitis
- Hepatic failure
- Chronic liver disease
- Wilson's disease
- Budd-Chiari syndrome
- Metabolic diseases of liver
- Cirrhosis and portal hypertension

### **Renal disorders**

- Acute and chronic glomerulonephritis
- Nephrotic syndrome
- Hemolytic uremic syndrome
- Urinary tract infection
- VUR and renal scarring
- Renal tubular disorders diseases
- Congenital and hereditary renal disorders
- Renal and bladder stones
- Posterior urethral valves, hydronephrosis, voiding dysfunction
- Undescended testis
- Wilms tumor

## **Neurologic disorders**

- Seizure and non-seizure paroxysmal events
- Epilepsy and epileptic syndromes
- Meningitis of childhood
- Brain abscess
- Coma
- Acute encephalitis and febrile encephalopathies
- Guillain-Barre syndrome
- Neurocysticercosis
- HIV encephalopathy
- SSPE
- Cerebral palsy
- Neurometabolic disorders
- Neurodegenerative disorders
- Neuromuscular disorders
- Mental retardation
- Learning disabilities
- Muscular dystrophies
- Acute flaccid paralysis and AFP surveillance
- Ataxias
- Movement disorders of childhood
- CNS tumors
- Malformations

## **Hematology & Oncology**

- Deficiency anemias
- Hemolytic anemias
- Aplastic anemias
- Thrombocytopenia
- Hemostasis
- Blood component therapy
- Transfusion related infections
- Bone marrow transplant/stem cell transplant
- Acute and chronic leukemia
- Myelodysplastic syndrome
- Hodgkin disease
- Non-Hodgkin's lymphoma
- Neuroblastoma
- Hypercoagulable states

## **Endocrinology**

- Hypopituitarism/hyperpituitarism
- Diabetes insipidus
- Pubertal disorders
- Hypo- and hyperthyroidism
- Adrenal insufficiency
- Cushing's syndrome

- Adrenogenital syndromes
- Diabetes mellitus
- Hypoglycemia
- Short stature
- Gonadal dysfunction and intersexuality
- Obesity

### **Infections**

- Bacterial
- Viral
- Fungal
- Parasitic
- Rickettsial
- Mycoplasma
- Protozoal
- Tuberculosis
- Nosocomial
- HIV
- Control of epidemics and infection prevention
- Safe disposal of infective material

### **Emergency & Critical care**

- Emergency care of shock & cardio-respiratory arrest
- Respiratory failure
- Acute renal failure
- Status epilepticus
- Acute severe asthma
- Fluid and electrolyte disturbances and its therapy
- Acid-base disturbances
- Poisoning
- Accidents
- Scorpion and snake bites

### **Immunology & Rheumatology**

- Arthritis (acute and chronic)
- Connective tissue disorders
- Immuno-deficiency syndromes
- Kawasaki disease

### **ENT**

- Acute and chronic otitis media
- Conductive/sensorineural deafness
- Post-diphtheritic palatal palsy
- Acute/chronic tonsillitis/adenoids
- Allergic rhinitis/sinusitis
- Foreign body

## **Skin Diseases**

- Exanthematous illnesses
- Vascular lesions
- Pigment disorders
- Vesicobullous disorders
- Infections: pyogenic, viral, fungal and parasitic
- Stevens-Johnson syndrome
- Eczema
- Seborrheic dermatitis
- Drug rash
- Urticaria
- Alopecia
- Ichthyosis

## **Eye diseases**

- Refraction and accommodation
- Partial/total loss of vision cataract
- Night blindness
- Chorioretinitis
- Strabismus
- Conjunctival and corneal disorders
- Retinopathy of prematurity
- Retinoblastoma
- Optic atrophy
- Palledema

## **Orthopedics**

- Major congenital orthopedic deformities
- Bone and joint infections
- Common bone tumors

## **PART II**

### ***General Knowledge, Current Affairs & Renaissance in Kerala***

#### **Salient Features of Indian Constitution**

Salient features of the Constitution - Preamble- Its significance and its place in the interpretation of the Constitution.

Fundamental Rights - Directive Principles of State Policy - Relation between Fundamental Rights and Directive Principles - Fundamental Duties.

Executive - Legislature - Judiciary - Both at Union and State Level. - Other Constitutional Authorities.

Centre-State Relations - Legislative - Administrative and Financial.

Services under the Union and the States.

Emergency Provisions.

Amendment Provisions of the Constitution.

#### **Social Welfare Legislations and Programmes**

Social Service Legislations like Right to Information Act, Prevention of atrocities against

Women & Children, Food Security Act, Environmental Acts etc. and Social Welfare Programmes like Employment Guarantee Programme, Organ and Blood Donation etc.

## **RENAISSANCE IN KERALA**

### **Towards A New Society**

Introduction to English education - various missionary organisations and their functioning- founding of educational institutions, factories, printing press etc.

### **Efforts To Reform The Society**

#### **(A) Socio-Religious reform Movements**

SNDP Yogam, Nair Service Society, Yogakshema Sabha, Sadhu Jana Paripalana Sangham, Vaala Samudaya Parishkarani Sabha, Samathwa Samajam, Islam Dharma Paripalana Sangham, Prathyaksha Raksha Daiva Sabha, Sahodara Prasthanam etc.

#### **(B) Struggles and Social Revolts**

Upper cloth revolts. Channar agitation, Vaikom Sathyagraha, Guruvayoor Sathyagraha, Paliyam Sathyagraha. Kuttamkulam Sathyagraha, Temple Entry Proclamation, Temple Entry Act. Malayalee Memorial, Ezhava Memorial etc.

Malabar riots, Civil Disobedience Movement, Abstention movement etc.

### **Role Of Press In Renaissance**

*Malayalee, Swadeshabhimani, Vivekodayam, Mithavadi, Swaraj, Malayala Manorama, Bhashaposhini, Mathnubhoomi, Kerala Kaumudi, Samadarsi, Kesari, Al-Ameen, Prabhatham, Yukthivadi, etc*

### **Awakening Through Literature**

Novel, Drama, Poetry, *Purogamana Sahithya Prasthanam, Nataka Prashtanam*, Library movement etc

### **Women And Social Change**

Parvathi Nenmenimangalam, Arya Pallam, A V Kuttimalu Amma, Lalitha Prabhu. Akkamma Cherian, Anna Chandi, Lalithambika Antharjanam and others

### **Leaders Of Renaissance**

Thycaud Ayya Vaikundar, Sree Narayana Guru, Ayyan Kali. Chattampi Swamikal, Brahmananda Sivayogi, Vagbhadananda, Poikayil Yohannan (Kumara Guru) Dr Palpu, Palakkunnath Abraham Malpan, Mampuram Thangal, Sahodaran Ayyappan, Pandit K P Karuppan, Pampadi John Joseph, Mannathu Padmanabhan, V T Bhattathirippad, Vakkom Abdul Khadar Maulavi, Makthi Thangal, Blessed Elias Kuriakose Chaavra, Barrister G P Pillai, TK Madhavan, Moorkoth Kumaran, C. Krishnan, K P Kesava Menon, Dr. Ayyathan Gopalan, C V Kunjuraman, Kuroor Neelakantan Namboothiripad, Velukkutty Arayan, K P Vellon, P K Chathan Master, K Kelappan, P. Krishna Pillai, A K Gopalan, T R Krishnaswami Iyer, C Kesavan. Swami Ananda Theerthan, M C Joseph, Kuttippuzha Krishnapillai and others

### **Literary Figures**

Kodungallur Kunhikkuttan Thampuran, Kerala Varma Valiyakoyi Thampuran, Kandathil Varghese Mappila. Kumaran Asan, Vallathol Narayana Menon, Ulloor S Parameswara Iyer, G Sankara Kurup, Changampuzha Krishna Pillai, Chandu Menon, Vaikom Muhammad Basheer. Kesav Dev, Thakazhi Sivasankara Pillai, Ponkunnam Varky, S K Pottakkad and others

## **GENERAL KNOWLEDGE AND CURRENT AFFAIRS**

## General Knowledge and Current Affairs

***NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.***