

101-NR

M.D. DEGREE EXAMINATION – OCTOBER, 2014

GENERAL MEDICINE

Paper-II – Principles and practice of Medicine including Therapeutics

Time : 3 Hours

Max. Marks: 100

Note : Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Atypical pneumonia
- 2) Dermatological manifestations of systemic diseases
- 3) Goal directed therapies in sepsis
- 4) Refractory heart failure
- 5) Chronic hepatitis – C
- 6) Nephrotic syndrome
- 7) Helicobacter pylori – diagnosis and treatment
- 8) Drug resistant typhoid fever
- 9) Discuss pericarditis
- 10) Second line HAART

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M.S. DEGREE EXAMINATION – OCTOBER, 2014
OBSTETRICS & GYNAECOLOGY

Paper-II – Obstetrics including Diseases of New born

Time : 3 Hours

Max. Marks : 100

Note : Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. What are the causes of perinatal mortality? How can it be reduced?
2. Describe the investigations in a case of recurrent pregnancy loss
3. Discuss the issues in the management of epilepsy in pregnancy
4. Write short notes on:
 - a) Meconium aspiration syndrome
 - b) Birth injuries in new born
5. Discuss the current status of instrumental vaginal deliveries
6. Discuss the current status of intrapartum foetal surveillance
7. Discuss the causes and management of acute inversion of uterus
8. Discuss the diagnosis and management of unruptured tubal pregnancy
9. Write short notes on:
 - a) Use of antibiotics in first trimester in pregnancy
 - b) Investigations in jaundice complicating pregnancy
10. Discuss the management of coagulation failure in pregnancy

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

PAEDIATRICS

Paper-II – Diseases of New born, Preventive and Social Paediatrics, Growth and Development and Child Psychiatry

Time : 3 Hours

Max. Marks : 100

Note : Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Describe the prevention and management of Hyaline membrane disease
2. Draw an algorithm for Neonatal resuscitation
3. Describe the management of Shock in Neonates
4. Describe the diagnostic features of Autism spectrum disorder
5. Describe the assessment of Muscle tone during infancy
6. Describe the clinical features and management of Hypoxic ischemic encephalopathy
7. Write the recommendations for prevention of mother to child transmission of Human immunodeficiency virus infection
8. Describe the beneficiaries and provisions of Janani Shishu Suraksha Karyakram.
9. Enumerate the causes and describe management of Short stature
10. Describe the recommendations and strategy of treatment of Tuberculosis in children under revised Tuberculosis control program.

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M.D. DEGREE EXAMINATION – OCTOBER, 2014
ANAESTHESIOLOGY

Paper-II : Clinical Sciences in relation to Anaesthesiology
including recent advances

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. What are the indications for neuro muscular blocking agents in the intensive care unit?
2. Describe the usefulness of simulators in anaesthesia education
3. Discuss the role of Anaesthetists in managing a patient for off pump coronary bypass surgery
4. Discuss the various methods followed to prevent Post operative thrombo embolic complications
5. Explain the different types of Laryngeal Mask airways with illustration. Mention the merits and demerits of various types Laryngeal mask airways in common use.
6. What are the recent advances in the management of Acute lung injury
7. Mention the commonly used immunosuppressive drugs and their interaction with anaesthetic agents
8. Mention the cardiac rhythm management devices. What is the anaesthetic importance for a patient with cardiac pacemaker?
9. Discuss the anesthetic problems involved in obese patient
10. What are the anaesthetic implications for a patient coming for Liver transplant surgery?

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

PATHOLOGY

Paper-II : Special Pathology

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Describe the pathology of Mineral deficiencies.
2. Pathology of Neonatal Respiratory distress syndrome
3. Restrictive cardiomyopathy
4. Pulmonary alveolar proteinosis
5. Pathology of diffuse Renal cortical necrosis
6. Pathology of Gestational trophoblastic disease
7. Pathology of Bone diseases associated with abnormal bone matrix.
8. Aetio pathology of Rhinoscleroma
9. Describe the pathology of Phakomatoses
10. Pathology of Therapeutic interventions in Vascular diseases

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M.D. DEGREE EXAMINATION – OCTOBER, 2014
RADIO DIAGNOSIS

Paper-II : Principles and Practice of Radio Diagnosis

Time : 3 Hours

Max. Marks : 100

Note: Answer all questions

All questions carry equal marks

Draw diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Discuss the causes of acute upper abdominal pain and role of various imaging modalities
2. A young female presenting with acute pain in the pelvis, what are various causes? How will you evaluate Radiologically?
3. Write short notes on:
 - a) Psoriatic arthritis
 - b) Pheochromocytoma
 - c) Liver segments disease
 - d) Benign tumors of kidney
4. Hypertrophic pyloric stenosis
5. Role of Color Doppler and ultrasound in post renal transplant patient
6. Role of ultrasound in thyroid tumors
7. Pulmonary sequestration
8. Classical signs of congenital heart disease
9. Pulmonary metastases
10. CNS manifestations in immunocompromised patients

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

PULMONARY MEDICINE

Paper-II : Pulmonary Tuberculosis – Clinical aspects

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Moxifloxacin in TB treatment
- 2) Nucleic Acid Amplification Technologies (NAAT) in TB diagnosis
- 3) Intermittent chemotherapy in TB
- 4) Bacillus Calmette Guerin (BCG) vaccine
- 5) Discuss concept of HIV / TB coinfection
- 6) Sequelae of Pulmonary tuberculosis
- 7) STAND (Shortening Treatment by Advancing Novel Drugs) trial
- 8) Immune reconstitution inflammatory syndrome
- 9) Poncet's disease
- 10) Five components of Programmatic Management of Drug Resistant TB (PMDT)

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

MICROBIOLOGY

Paper-II : Systemic Bacteriology

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Laboratory diagnosis of Actinomycosis
2. Burkholderia cepacia as emerging pathogen
3. Enumerate bacterial causes of Atypical pneumonia and outline their laboratory diagnosis
4. Give an account of vancomycin resistant Enterococcus in India
5. Enumerate various antimycobacterial susceptibility testing methods.
6. Outline laboratory diagnosis of Non -fermenters
7. Discuss pathogenesis and laboratory diagnosis of Gas gangrene
8. Discuss in detail about the laboratory diagnosis of urinary tract infections
9. Etiology and laboratory diagnosis of Blood stream infections
10. Enumerate Bacterial causes of Acute abdominal infections and outline laboratory diagnosis

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

SOCIAL & PREVENTIVE MEDICINE

Paper-II : Epidemiology and control of diseases

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) WHO has certified India as "Polio eradicated". Discuss the strategies to be implemented to prevent the resurgence of Polio in India
- 2) A new drug Ax has been identified to cure AIDS in phase II trials. Write a protocol for the phase III trial.
- 3) Discuss the epidemiology and prevention of tobacco related cancers prevalent in India.
- 4) Discuss the differences between Incidence and Prevalence
- 5) Describe the different approaches for Surveillance
- 6) As MO i/c of a PHC, describe how will you conduct an Audit of the immunization delivery services
- 7) Write a note on Disinfectants
- 8) Repeated outbreaks of a Dengue have occurred in the district. As the District Health Officer, describe your plan of action to prevent recurrence of the outbreak.
- 9) Discuss the National AIDS Control Programme Phase IV. What are the major changes from the earlier phases
- 10) A cohort of cancer patients underwent bone marrow ablation with the drug A (n=25) and drug B (n=34). The out come measure was the cerebellar toxicity to these drugs which at the end of follow up was (drug A=11 and drug B=3)
 - a) Complete the 2x2 table using this data.
 - b) What is the incidence of toxicity in the exposed group?
 - c) What is the incidence of toxicity in the unexposed group?
 - d) What is the risk ratio?
 - f) What is your interpretation of the RR?

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M.D. DEGREE EXAMINATION –OCTOBER, 2014

PSYCHIATRY

Paper-II: Organic Psychiatry and Psychosomatic Medicine

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Clinical features, Etiopathology and Management of Fronto-temporal dementia
- 2) Psychiatric manifestations of Chronic Temporal lobe epilepsy
- 3) Clinical features, Aetiopathology and management of Motor Neuron Disease
- 4) Psychological correlates of Irritable bowel syndrome
- 5) Dermatological disorders in Psychiatric patients
- 6) Mirror neurons and their significance in understanding Brain-behaviour interaction.
- 7) Physical and psychiatric manifestations of SLE and its management
- 8) Clinical features, types, differential diagnosis and management of Delirium.
- 9) Pharmacology, adverse effects and uses of Memantine
- 10) Management of Status epilepticus

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

BIOCHEMISTRY

Paper-II : Chemistry and Metabolism.

Time: 3 Hours

Max. Marks: 100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) What is Transamination? Explain by giving two examples
- 2) Explain the Digestion and Absorption of carbohydrates
- 3) Enumerate two hormones which affect Calcium and phosphorus metabolism. Write how these hormones regulate them in the body.
- 4) Explain antioxidant defence mechanism in biological system
- 5) Describe the formation and excretion of Bilirubin. Explain the significance of serum bilirubin and urobilinogen in the diagnosis of various types of jaundice.
- 6) Starvation induced Ketonaemia
- 7) Describe the Salvage pathways for Purine and Pyrimidine synthesis.
- 8) Role of Kidney in blood pH regulation
- 9) Define Enzymes. Classify enzymes according to IUB system with one example each. Write three enzymes commonly estimated after myocardial infarction
- 10) Functional classification of Proteins. Enumerate Essential amino acids

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

PHARMACOLOGY

Paper-II : Pharmacology of Drugs affecting CNS, ANS, CVS and Renal functions.

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Endothelin receptor antagonists
2. Central α_2 agonists
3. Non epileptic use of Antiepileptic drugs
4. Atypical Antipsychotics
5. Pharmacology of drugs acting on proximal renal tubules
6. Drugs used in Hypertensive emergencies
7. Fatty acid oxidation inhibitors
8. Therapeutic uses of Magnesium
9. Enzyme inhibitors in the treatment of Parkinson's disease
10. Opioid antagonists

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

FORENSIC MEDICINE

Paper-II : Pathology and Microbiology

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Describe Gas liquid chromatography
- 2) Discuss post mortem chemistry of Cerebrospinal fluid
- 3) Nosocomial infection
- 4) Discuss the histopathological diagnosis of death due to Tuberculosis.
- 5) Write briefly about Amniotic fluid embolism
- 6) Describe the pathophysiology of Shock.
- 7) Botulism
- 8) Discuss autopsy in HIV positive body
- 9) How will you investigate a case of death due to food poisoning?
- 10) Air embolism.

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

SYSTEMIC PHYSIOLOGY

Paper-II : Blood, Digestion, excretion, endocrine including
reproductive system

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Colony stimulating factors
- 2) Mechanism of hemostasis
- 3) Esophageal peristalsis
- 4) Migrating motor complexes
- 5) Reflex control of micturition
- 6) Mode of action of diuretics
- 7) Regulation of secretion of hormone
- 8) General adaptation syndrome
- 9) Control of onset puberty
- 10) Male hypogonadism

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M.S. DEGREE EXAMINATION – OCTOBER, 2014

GENERAL SURGERY

Paper-II : General Surgery including Trauma and Orthopaedics

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Early gastric carcinoma
- 2) Discuss advanced carcinoma breast
- 3) Classification of salivary gland tumors and discuss pleomorphic adenoma
- 4) Portal hypertension
- 5) Malignant melanoma
- 6) Ulcerative colitis
- 7) Describe the associated internal injuries in pelvic fractures and outline the management of pathological fracture
- 8) Discuss peripheral nerve injuries
- 9) Liver trauma and management
- 10) Neck injuries and management

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M.S. DEGREE EXAMINATION – OCTOBER, 2014

ORTHOPAEDICS

Paper-II : Traumatology

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Classify ankle injuries and outline management
- 2) Chance fracture
- 3) Intercondylar fractures of femur
- 4) Management of pathological fractures of long bones
- 5) Claw hand deformity
- 6) Classify Talus injuries, outline management
- 7) Crush syndrome
- 8) Malunited Supracondylar fracture humerus
- 9) Management of Non union Neck of femur in an young adult
- 10) Burst fracture of the Dorso lumbar spine

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M.S. DEGREE EXAMINATION – OCTOBER, 2014

OPHTHALMOLOGY

Paper-II : Principles of Ophthalmic Medicine and Surgery

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat and labeled diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Floopy eye syndrome.
 - 2) Molai imbalance nystagmus.
 - 3) Uveal effusion syndrome
 - 4) Non-Ophthalmos
 - 5) Importance of axoplasmic flow in glaucoma
 - 6) Classify Diplopia and note on compensatory mechanism for diplopia
 - 7) Management of Non-infectious Viral keratitis
 - 8) Malignant glaucoma
 - 9) Management of Dropped nucleus
 - 10) Management of Amblyopia in children
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M.S. DEGREE EXAMINATION – OCTOBER, 2014

OTORHINOLARYNGOLOGY

Paper-II: Diseases of Ear, Nose and Throat, Surgical pathology.

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Rhinosporidiosis and its treatment
- 2) Thyroglossal cyst and explain removal by surgery.
- 3) Tuberculous otitis media.
- 4) Treacher-Collin's syndrome.
- 5) Tympanosclerosis
- 6) Write in detail the types and spread of carcinoma larynx
- 7) Cardiac achalasia.
- 8) Tracheo oesophageal fistula
- 9) Rhinolith
- 10) Discuss the pathogenesis and complications of sinusitis

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M.D. DEGREE EXAMINATION – OCTOBER, 2014

ANATOMY

Paper-II : Gross Anatomy.

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Boundaries and contents of the cubital fossa
 - 2) Nerve and blood supply of the urinary bladder
 - 3) Rectum and anal canal
 - 4) Venous drainage of the heart
 - 5) Parotid gland
 - 6) Diagram to show superficial relations of Hyoglossus
 - 7) Ankle joint
 - 8) Ciliary ganglion
 - 9) Lymphatic drainage of lower limb
 - 10) Pleura
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M.D. DEGREE EXAMINATION – OCTOBER, 2014

D.V.L.

Paper-II

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw diagrams wherever necessary

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Pediculosis
 - 2) Types and etiopathogenesis of Lichen planus.
 - 3) Xeroderma Pigmentosum
 - 4) Endogenous eczemas
 - 5) Langerhans cell histiocytosis.
 - 6) Biological therapy in psoriasis
 - 7) Malignant melanoma
 - 8) Sunscreens
 - 9) Erythroplasia of Queyrat
 - 10) Dermatofibroma
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M.D. DEGREE EXAMINATION – OCTOBER, 2014

HOSPITAL ADMINISTRATION

Paper-II – Health Administration and Medical Care
(includes Epidemiology, Biostatistics & Research Methodology)

Time : 3 Hours

Max. Marks: 100

Note : Answer all questions

All questions carry equal marks

Draw diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Role of hospitals in providing primary health care
- 2) Quality Adjusted Life Years
- 3) National AIDS control programme, its achievements and constraints
- 4) Case control vs Cohort studies
- 5) Measurements of central tendency
- 6) Sampling methods and errors in sampling
- 7) Total quality management in hospitals
- 8) Basic concepts of health economics
- 9) Investigation and control of epidemics
- 10) Life style diseases and their prevention
