

Q.P.CODE:101-NR

Dr. NTR University of Health Sciences::Vijayawada-520 008
M.D. DEGREE EXAMINATION – APRIL, 2019

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) Diagnosis and management of Chronic Myeloid Leukemia
- 2) POEMS Syndrome
- 3) Lepra reaction. Add a note on Lucio's phenomenon
- 4) Metabolic syndrome
- 5) Management of Acute Severe Asthma
- 6) Obstructive Sleep Apnoea
- 7) Menetrier's disease
- 8) Extra articular manifestations and management of Rheumatoid Arthritis
- 9) Alport Syndrome
- 10) Posterior circulation stroke

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Q.P.CODE:105-NR

Dr. NTR University of Health Sciences::Vijayawada-520 008

M.S. DEGREE EXAMINATION – APRIL, 2019

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) Describe the management of period at 32 weeks gestation and vaginal leak
 - 2) Causes of recurrent pregnancy loss
 - 3) Arrest disorder in the Partograph
 - 4) Prostaglandins in induction of labour
 - 5) Malaria in pregnancy
 - 6) Asymptomatic bacilluria
 - 7) Manual removal of placenta
 - 8) Doppler in Obstetrics
 - 9) Safe motherhood
 - 10) Non immune hydrops foetalis
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Q.P.CODE:109-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.D. DEGREE EXAMINATION – **APRIL, 2019**

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. Write various causes and management of conjugated hyperbilirubinemia
2. Describe in brief Retinopathy of Prematurity (ROP) Screening
3. Describe clinical features and management of Patent Ductus Arteriosus (PDA)
4. Write the importance and process of Kangaroo Mother Care (KMC)
5. Describe future strategies for Global Polio Eradication
6. Write a brief note on Pneumococcal Vaccines
7. Describe the salient features of Mission Indradhanush
8. Define Precocious puberty and write its management in a female child
9. Describe normal developmental milestones in a one year old child
10. Write brief note on management of Pica in children

Q.P.CODE:113-NR*Dr. NTR University of Health Sciences::Vijayawada-520 008***M.D. DEGREE EXAMINATION – APRIL, 2019****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

1. Discuss the physiological changes in pregnancy and its relevance to anaesthesia
2. Describe the anaesthetic management of craniotomy for posterior cranial fossa tumor
3. Discuss indications, technique and complications of inter-scalene brachial plexus block
4. Write a note on Xenon
5. What are the anaesthetic challenges in penetrating eye injuries?
6. Describe the various techniques used in management of post-operative pain relief.
7. Discuss Modified Electroconvulsive Therapy
8. Describe the criteria for weaning off the patient on ventilator support.
9. Explain the techniques and complications of internal jugular venous cannulation
10. Write a note on Hydroxy Ethyl Starch.

Q.P.CODE:121-NR

Dr. NTR University of Health Sciences::Vijayawada-520 008
M.D. DEGREE EXAMINATION – APRIL, 2019

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) Discuss the pathological features of lupus nephritis
 - 2) Discuss the gastric lymphomas
 - 3) Morphological features of thymoma
 - 4) Discuss the functional tumors of ovary
 - 5) Discuss the asbestosis related lung diseases
 - 6) Discuss the features of medium sized vasculitis
 - 7) Discuss gestational trophoblastic tumors
 - 8) Discuss the tumors of thyroid gland
 - 9) Pathology of Desmoplastic small round cell tumor
 - 10) Discuss endometrial neoplasms
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Q.P.CODE:125-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA

M.D. DEGREE EXAMINATION – **APRIL, 2019**

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. Imaging features of Renal tuberculosis
2. Imaging findings in Colonic Carcinoma
3. Abdominal Hernias – Imaging Findings
4. Pseudo pancreatic cyst
5. Imaging features of Respiratory Distress in New Born
6. Coarctation of Aorta
7. Renal Angiogram
8. Congenital Anomalies of Uterus
9. Pulmonary Thrombosis
10. Adnexal Masses – Imaging features

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Q.P.CODE:129-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.D. DEGREE EXAMINATION – **APRIL, 2019**

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) Latent TB Infection (LTBI) – Diagnosis and management
 - 2) DOTS Plus
 - 3) Tubercular Lymphadenitis – etiopathogenesis and management
 - 4) Molecular methods of TB diagnosis
 - 5) Adult onset of primary complex Tuberculosis
 - 6) Hygiene Hypothesis
 - 7) Open negative syndrome
 - 8) Effect of Tuberculosis on hematological system
 - 9) Clinical manifestation and TB diagnosis in HIV
 - 10) Mechanism of action and adverse effects of first line anti TB drugs
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Q.P.CODE:133-NR*Dr. NTR University of Health Sciences::Vijayawada-520 008***M.D. DEGREE EXAMINATION – APRIL, 2019****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) Virulence factors of *Staphylococcus aureus*
- 2) Laboratory diagnosis of enteric fever
- 3) Pathogenesis and laboratory diagnosis of gas gangrene
- 4) *Helicobacter pylori*
- 5) TRIC agents
- 6) Serological diagnosis of leptospirosis
- 7) *Mycobacterium leprae*
- 8) Malignant pustule
- 9) Central line associated blood stream infections
- 10) Drug resistance in enterococci

Q.P.CODE:137-NR*Dr. NTR University of Health Sciences::Vijayawada-520 008***M.D. DEGREE EXAMINATION – APRIL, 2019****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) Discuss the uses of Epidemiology
- 2) Describe the steps in Cohort study. Write the difference between Case Control Study and Cohort Study.
- 3) Classify Immunizing agents. Describe adverse effects following immunization.
- 4) Describe the epidemiology of tuberculosis in India. Add a note on recent advances in RNTCP.
- 5) What is the current situation of Leprosy in India? Explain operational indicators for leprosy.
- 6) Describe the epidemiology of Diabetes Mellitus in India.
- 7) Discuss the multiple factors for causation of CHD in India. Add a note on Primordial prevention
- 8) Explain Anti-microbial resistance and their effects on control of diseases
- 9) What is Disinfection? What are the different types of disinfection?
- 10) Discuss the various factors responsible for road traffic accidents.

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Q.P.CODE:145-NR

Dr. NTR University of Health Sciences::Vijayawada-520 008
M.D. DEGREE EXAMINATION – APRIL, 2019

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) Classification and Diagnosis of Dementia
- 2) Psychiatric manifestations of thyroid disorders
- 3) Mild Cognitive Disorder
- 4) Organic Catatonic Disorder
- 5) Diabetes Mellitus and Depression
- 6) Subdural Hematoma
- 7) Psychiatric Disorders in Parkinson's Disease
- 8) Post Stroke Depression
- 9) Diagnosis and Management of Interictal Psychiatric Disorders
- 10) Neuro psychiatric Manifestations of HIV infection of the Central Nervous System (CNS)

Q.P.CODE:149-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.D. DEGREE EXAMINATION – **APRIL, 2019**

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) Discuss the biochemical changes in Von – Gierke's disease
- 2) Explain the biochemical changes in Diabetes Mellitus
- 3) Explain causes, effects and treatment of hyperuricemia
- 4) Explain role of pyridoxine in human metabolism
- 5) Explain the formation of specialized products of tyrosine
- 6) Metabolic actions of insulin
- 7) Low density lipoprotein (LDL) metabolism and its clinical significance
- 8) Explain with examples how futile cycles are prevented in our metabolism
- 9) Multi enzyme complexes
- 10) Explain chemiosmotic theory and oxidative Phosphorylation. Add a note on uncouplers of electron transport chain

Q.P.CODE:153-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA
M.D. DEGREE EXAMINATION – **APRIL, 2019**

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. Classify anticholinergic drugs. Write the pharmacological action, uses and side effects of anticholinergic drugs.
2. Drugs acting on autonomic ganglia
3. Intravenous anaesthetics
4. Non benzodiazepines used as hypnotics
5. Mood stabilizing drugs
6. Atypical antidepressants and its uses
7. Role of Synthetic opioids as analgesics
8. Angiotensin receptor blockers
9. Antianginal drugs acting by non hemodynamic mechanism
10. Write in detail about weak diuretics

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Q.P.CODE:157-NR*Dr. NTR University of Health Sciences:: Vijayawada-520 008***M.D. DEGREE EXAMINATION – APRIL, 2019****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) Discuss the etiology and pathology of "Sudden Infant Death Syndrome"
- 2) Discuss the investigation and medicolegal aspect of death in operation theatre.
- 3) Leishman Staining
- 4) Role of Bacteria in Seafood Poisoning
- 5) Postmortem Analysis of Vitreous Fluid
- 6) Ramakrishna, a 48 yrs old male attended a marriage party, 24 hrs later he had bouts of vomiting and diarrhea. Explain how will you isolate the agents responsible and do culture sensitivity test with name of culture media and drugs.
- 7) Sudden death of a pregnant woman in different trimesters
- 8) Fatality due to electrocution
- 9) Discuss the morphological changes in the time period in ischemic and hypoxic brain damage
- 10) Discuss the safety procedure of high risk autopsy

Q.P.CODE:161-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.D. DEGREE EXAMINATION – **APRIL, 2019**

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) Discuss functions of Large Intestine
- 2) Discuss endocrine control on testicular functions
- 3) Classify anaemia. How will you investigate a case of anaemia?
- 4) Discuss effects of renal failure. Add a note on hemodialysis.
- 5) Describe the actions mediated via different cholinergic receptors.
- 6) Describe actions and regulation of growth hormone
- 7) Define the term conditioning. Discuss experiments of Pavlov.
- 8) Discuss metabolism in Diabetes Mellitus
- 9) Discuss the role of placental hormones
- 10) Renal regulation of p^H

Q.P.CODE:165-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA

M.D. DEGREE EXAMINATION – APRIL, 2019**RADIOTHERAPY**

Paper-II : Principles and Practice of Radiotherapy

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) A 45 year old male presented with 3 month history of slowly enlarging lumps in his left axilla and left supraclavicular fossa. Physical examination revealed a 30mm hard, fixed mass in his left supraclavicular fossa and a 40mm hard, mobile mass in his left axilla. The remainder of the physical examination was normal. An incisional biopsy of the supraclavicular fossa mass showed metastatic poorly differentiated carcinoma. He had not undergone any further investigations and has been referred to you for further management.
 - a) What investigations would you recommend for this patient?
 - b) Histopathology review confirmed a diagnosis of poorly differentiated carcinoma (non-small cell) and investigations failed to identify a primary site. Staging investigations confirmed nodal disease in his left axilla and supraclavicular fossa, but no evidence of disease elsewhere. What would be your recommended management plan for this patient?
- 2)
 - a) Describe the potential endocrine and metabolic side effects of cancer treatment in adults, giving examples.
 - b) How would you prevent and manage these effects in a man with prostate cancer on long-term androgen deprivation therapy?
- 3)
 - a) Discuss the causes of renal failure in patients with malignancy.
 - b) What factors would you take into consideration in determining the management of renal failure in a cancer patient under your care?

Contd....2

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- 4) Radiation proctitis
- 5) Accelerated partial breast irradiation
- 6) Intraluminal brachytherapy in carcinoma esophagus
- 7) How will you treat a child with average risk medulloblastoma?
Describe briefly the treatment techniques and difficulties you will face
in delivery of treatment.
- 8) Evolution of trials in Rhabdomyosarcoma
- 9) Indications and techniques of prophylactic cranial irradiation
- 10) Multileaf collimators

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Q.P.CODE:169-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.S. DEGREE EXAMINATION – **APRIL, 2019**

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) Classification, clinical presentation, investigation and management of renal trauma.
- 2) Classification and management of chondrosarcoma
- 3) What are the indications for amputation of the limbs? Describe the various amputations done on the upper limb.
- 4) Classification and management of mandibular fractures.
- 5) Causes, clinical features and management of radial nerve injury.
- 6) Diagnosis and management of extremity vascular injuries.
- 7) Focused Abdominal Ultrasound in Trauma (FAST)
- 8) Blood components and their use
- 9) Flail chest
- 10) Hemorrhage control techniques in polytrauma case.

Q.P.CODE:173-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.S. DEGREE EXAMINATION – **APRIL, 2019**

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) Describe Denis 3 column concept of spine. Classify spine injuries based on mechanism of injury.
- 2) Give brief description of Acromioclavicular injuries
- 3) How will you evaluate and manage a fracture of shaft of humerus with Radial nerve Palsy?
- 4) Describe in brief Monteggia's fractures in children
- 5) Kaplan's dislocation
- 6) Fractures of head of femur
- 7) Graft options in Anterior cruciate ligament reconstruction
- 8) Compartment syndrome in the leg
- 9) Complications of fracture of Calcaneum.
- 10) Use of Titanium elastic nails in Pediatric fractures.

Q.P.CODE:177-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.S. DEGREE EXAMINATION – **APRIL, 2019**

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) Abnormal retinal correspondence
 - 2) Aniseikonia
 - 3) Sympathetic ophthalmitis
 - 4) Brown syndrome
 - 5) Kerato refractive procedures
 - 6) Pathological myopia
 - 7) Uses of antimetabolites
 - 8) Accommodative esotropia
 - 9) Herpes zoster keratitis
 - 10) Scleritis
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Q.P.CODE:181-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.S. DEGREE EXAMINATION – **APRIL, 2019**

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) Causes and consequences of chronic Eustachian tube dysfunction
- 2) Tests for nasal allergy
- 3) Evaluation of a 48 year old female with dysphagia of 2 months duration
- 4) Vocal hygiene
- 5) Auditory dyssynchrony
- 6) Refractory epistaxis
- 7) Recidivistic cholesteatoma
- 8) Causes of stridor in children
- 9) Management of CSF otorrhoea
- 10) Discuss the embryology of Branchial Cleft anomalies. Describe the presentation and management of common disorders

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Q.P.CODE:185-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.D. DEGREE EXAMINATION – **APRIL, 2019**

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) Contents of middle ear
- 2) Pudendal canal
- 3) Cartilages of larynx
- 4) Hamstring muscles
- 5) Plantar arterial arch
- 6) Pericardial cavity
- 7) Contents of deep perineal pouch
- 8) Gross anatomy of large intestine
- 9) Boundaries of quadrangular space
- 10) Portal vein.

Q.P.CODE:189-NR

Dr. NTR University of Health Sciences::Vijayawada-520 008
M.D. DEGREE EXAMINATION – APRIL, 2019

D.V.L.

Paper-II

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) Peri oral Dermatitis
 - 2) Pili Torti
 - 3) Borst-Jadassohn phenomenon
 - 4) Colloid Milium
 - 5) Kyrle's disease
 - 6) Degos Disease
 - 7) Dermatitis Artefacta
 - 8) Pretibial Myxedema
 - 9) Cutaneous Larva Migrans
 - 10) Leiomyoma
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Q.P.CODE:193-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA

M.D. DEGREE EXAMINATION – APRIL, 2019

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) Write four differences between Health Center and Hospital. Describe five areas where Medical Superintendent needs to change medical college teaching hospitals run by State?
 - 2) Describe the functions of Voluntary Health Agencies in Health care delivery chain in India? Write in detail about Indian Red Cross Society?
 - 3) Discuss on the role of hospitals in providing primary health care?
 - 4) Healthcare Information Technology has evolved as cornerstone in delivering healthcare. Enumerate the advantages and disadvantages of Public Health medical record system.
 - 5) Classify occupational hazards in a hospital setting. Discuss the solutions to mitigate the hazards, as an administrator of the hospital.
 - 6) Describe the importance of Five Year Plans in Health care policy of India. What are the changes that can be made in the system?
 - 7) What is Quality Adjusted Life Years? How can it be used to measure the burden of disease in society?
 - 8) Discuss on 3 basic concepts of economics that can be of utmost importance in Health Economics.
 - 9) Describe the concept of Regionalization of healthcare. Comment on how it can be successfully implemented in India.
 - 10) Discuss the geriatric problems in India under the heads: Epidemiology and National Health Program goals.
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Q.P.CODE:197-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA

M.D. DEGREE EXAMINATION – **APRIL, 2019****EMERGENCY MEDICINE**

Paper-II – Emergency Medicine (Medicine, Dermatology, Psychiatry)

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 various oncological emergencies.
- 2) Add a note on SAD PERSON score and its significance
- 3) Discuss the clinical features, diagnosis and management of DIC.
- 4) How do you approach a patient with bradycardia and hypotension secondary to poisoning?
- 5) What are the differentials of Acute chest pain? Add a note on classification and X-ray findings in Aortic dissection
- 6) Discuss the clinical features, diagnosis and management of Heat Stroke.
- 7) What is Toxic Epidermal Necrolysis? List the clinical features and management of TEN
- 8) What are the complications of Blood transfusion?
- 9) Ventilator strategies in ARDS
- 10) How do you approach a case with syncope in ED? List the relevant investigations, management and disposition?
