

March 2009

[KU 162]

Sub. Code: 2057

M.D. DEGREE EXAMINATION

Branch XVI – GERIATRICS

**Part II – Paper II (Candidates admitted upto 2003-04) and
Paper III - (For candidates admitted from 2004-2005 to 2007-2008)**

GERIATRICS

Q.P. Code : 202057

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Discuss the assessment and management of chronic pressure ulcers in the elderly.
2. Discuss dementia in elderly and its management.

II. Write short notes on :

(10 x 6 = 60)

1. Rehabilitation team.
2. Selective estrogen receptor modulators.
3. Polymyalgia Rheumatica.
4. Treatment of hypothyroidism.
5. Atypical presentations of infections in elderly.
6. Role of physiotherapy in elderly.
7. Calcium channel antagonists.
8. Elder mistreatment.
9. Osteoporosis.
10. Levodopa.

March 2010

[KW 162]

Sub. Code: 2057

M.D. DEGREE EXAMINATION

Branch XVI – GERIATRICS

GERIATRICS

**Paper III– (For candidates admitted from 2004-2005 to 2007-2008) and
Part II / Paper II – (for candidates admitted from 2008-09 onwards)**

Q.P. Code : 202057

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Discuss management of hypertension in elderly.
2. Discuss coma in elderly.

II. Write short notes on :

(10 x 6 = 60)

1. Hormone therapy in malignancy.
2. Gynaecomastia.
3. Mammography.
4. Postural hypotension.
5. Cardiac pacemaker.
6. Parkinsonism.
7. Dementia.
8. Neuritic pain.
9. Lacunar infarcts.
10. Osteoarthritis management.

MAY 2011

[KY 162]

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

GERIATRICS

Q.P. Code : 202057

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
-------------------------	------------------------	-------------------------

- | | | | |
|--|----|----|----|
| 1. Discuss the approach to recurrent falls in the elderly, with emphasis on prevention and management. | 11 | 35 | 15 |
| 2. Classify Urinary incontinence. Discuss its evaluation and treatment. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Visual impairment. | 4 | 10 | 7 |
| 2. Tools of functional assessment. | 4 | 10 | 7 |
| 3. Sleep Hygiene. | 4 | 10 | 7 |
| 4. Management of chronic constipation. | 4 | 10 | 7 |
| 5. Prevention of Pressure sore. | 4 | 10 | 7 |
| 6. Gastro esophageal reflux disease. | 4 | 10 | 7 |
| 7. Heat stroke. | 4 | 10 | 7 |
| 8. Sub dural haematoma. | 4 | 10 | 7 |
| 9. Herpes zoster. | 4 | 10 | 7 |
| 10. Management of postural hypotension. | 4 | 10 | 7 |

[LA 162]

April 2012

Sub. Code: 2057

**M.D. DEGREE EXAMINATION
BRANCH XVI –GERIATRICS
GERIATRICS
Q.P. Code : 202057**

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. What are the pathology, pathogenesis and treatment of Parkinson's disease – with specific emphasis on choice of drug, side effects, newer treatment modalities, and the treatment of non motor symptoms? | 16 | 35 | 15 |
| 2. What is the etiology, clinical features, diagnostic evaluation and management in a patient with congestive cardiac failure? What are the categories of drugs you would use, and what are their indications and side effect profile? What is your approach to a patient with refractory heart failure? | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. What is the role of an occupational therapist in the life of an elderly person with mobility issues and with an ageing wife with him? | 4 | 10 | 7 |
| 2. How would you deal with constant itching in an elderly patient? | 4 | 10 | 7 |
| 3. What are the common sleep disorders in the elderly and what is their line of management? | 4 | 10 | 7 |
| 4. Write a short note on the clinical features, investigation and treatment of obstructive uropathy. | 4 | 10 | 7 |
| 5. How would you diagnose and manage a case suspected to have Benign Paroxysmal Positional Vertigo? | 4 | 10 | 7 |

(PTO)

April 2012

- | | | | |
|--|---|----|---|
| 6. What are the reversible dementias? How would you investigate and manage these dementias? | 4 | 10 | 7 |
| 7. What are the types of Non Hodgkin's lymphoma?
What are their clinical presentations and their prognosis?
What are the principles of therapy in these cases? | 4 | 10 | 7 |
| 8. What is Pick's disease? What is the pathology and treatment of Pick's disease? | 4 | 10 | 7 |
| 9. How would you assess a patient's nutrition? Write a note on the various methods used and what are their advantages and disadvantages. | 4 | 10 | 7 |
| 10. How would you assess swallow at the bedside in a patient with a recent stroke? | 4 | 10 | 7 |

(LC 162)

APRIL 2013

Sub code:2057

**M.D. DEGREE EXAMINATION
BRANCH XVI – GERIATRICS**

GERIATRICS

Q.P.CODE:202057

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. How will you approach a patient with dizziness?
2. Describe the principles of drug therapy in elderly.

II. Write notes on:

(10X7=70)

1. Discuss about hormone replacement therapy
2. Write a note on progressive supranuclear palsy
3. Cognitive assessment tools
4. Describe the pathophysiology of insomnia and its management
5. Post falls syndrome
6. Brief note on subdural hematoma
7. Use of statins in elderly
8. Behavioural symptoms of dementia
9. Isolated systolic hypertension and its management
10. Paget's disease

[LD 162]

OCTOBER 2013

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

GERIATRICS

Q.P.Code:202057

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the pathogenesis, diagnosis, prevention and management of frailty?
2. Discuss the etiology, clinical features and management of community acquired Pneumonia in elderly?

II. Write notes on:

(10 x 7 = 70)

1. Write a brief note on deconditioning and its prevention.
2. Pharmacological management of constipation.
3. What are the intrinsic risk factors for falls?
4. Atrial fibrillation and its management ?
5. Chronic indwelling catheter usage in elderly.
6. What is comprehensive geriatric assessment?
7. Causes of treatable dementias.
8. Herpes Zoster infection in elderly.
9. Discuss about temporal arteritis?
10. Heat exhaustion.

[LE 162]

APRIL 2014

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI –GERIATRICS

GERIATRICS

Q.P. Code :202057

Time : Three Hours

Maximum : 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the risk factors, pathology, clinical features of Chronic Obstructive Pulmonary Disease. How will you differentiate it with Bronchial Asthma? Discuss the management and complications of COPD.
2. What is Osteoporosis? Describe in detail its risk factors, Pathology, clinical features, investigations, management and its complications.

II. Write notes on:

(10X7=70)

1. Hemetemesis.
2. Malabsorption.
3. Vitamin deficiencies.
4. Cardiomyopathy.
5. Blood Transfusion.
6. Immobility.
7. Hypocalcemia.
8. Syncope.
9. Hirsutism and Baldness in Elder women.
10. Gastro Esophageal Reflex Disease.

[LG 162]

APRIL 2015

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

PAPER III – GERIATRICS

Q.P.Code:202057

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. The neurodegenerative disorders associated with Tau, Progranulin or TDP 43 pathology. Describe their pathology, clinical presentation, course and prognosis in detail. Also elaborate on the treatment modalities available.
2. Cardiomyopathies - Pathophysiology, etiology, clinical features, diagnosis and treatment.

II. Write notes on:

(10 x 7 = 70)

1. Congestive heart failure – diagnostic evaluation.
2. Hypersensitive carotid sinus syndrome.
3. Algorithm to investigate and treat an elderly male with lower urinary tract symptoms.
4. Approach to the evaluation and treatment of hyponatremia.
5. Motor neuron disease – presentation, evaluation and treatment modalities.
6. Renal osteodystrophy – laboratory and radiological abnormalities, and treatment.
7. Subacute combined degeneration of the cord – presentation and treatment.
8. Hormone replacement in geriatric patients.
9. What are the phases in human walking? Describe in detail with appropriate diagrams.
10. Ms. Shanta has a suspicious breast lump on her recent mammogram. She is 62 years old. What is the ideal approach to a suspicious breast lesion in an older woman?

**M.D. DEGREE EXAMINATION
BRANCH XVI – GERIATRICS
PAPER III – GERIATRICS**

Q.P. Code :202057

Time : Three Hours**Maximum : 100 Marks****I. Elaborate on:****(2 x 15 = 30)**

1. Mr. Arumugam is a 75 year old diabetic and hypertensive, with 40 back years behind him. He developed cough and fever for three days and was found to be incoherent, abusive and having altered sensorium by his relatives on the third day. His vitals were stable. What would be your differentials? What are the trigger factors? How would you evaluate and manage Mr. Arumugam on the ward?
2. Urinary incontinence in males – Types, epidemiology, pathogenesis, risk factors, screening, diagnostic evaluation and management.

II. Write notes on:**(10 x 7 = 70)**

1. Macular degeneration – clinical presentation, etiology, diagnosis, treatment and prevention.
2. Recommendations regarding treatment of complicated urinary tract infection in males.
3. Tumor lysis syndrome – presentation, investigation and treatment.
4. What is the Mini Nutritional assessment score? What are its components and how will you score it? How will you interpret it? What interventions can you suggest to improve the health of the patient?
5. Venous Thromboembolism and post operative management of anti coagulation.
6. 68 year old Ms. Radha has had surgery for fracture of her left neck of femur 2 months ago. She has read up on the Internet about treatment of osteoporosis and wants to know whether she will benefit by treatment. What is her risk of having another fragility fracture? What further tests would you want to do on her? What are her treatment options?
7. Sjoren's syndrome – definition, epidemiology, pathophysiology, presentation and management.
8. What are the mechanisms of drug induced thrombocytopenia?
9. Anemia of chronic kidney disease – type, investigation, and treatment modalities.
10. GOLD criteria for assessment of COPD (chronic obstructive pulmonary disease) and treatment options based on this assessment.

[LK 162]

MAY 2017

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

PAPER III – GERIATRICS

Q.P. Code :202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss fluid and electrolyte disturbances in elderly and its management.
2. A 65 years old lady, normotensive, non diabetic, presents with H/O frequent urination, nocturia and involuntary leakage of urine on and off for the past 6 months. What are the causes and how will you evaluate and manage this patient?

II. Write notes on:

(10 x 7 = 70)

1. Balance and gait assessment.
2. Tests of cognition and rating scale.
3. Myelodysplastic syndrome.
4. Fried's criteria.
5. Metabolic Acidosis.
6. Interstitial lung disease.
7. Refractory Cardiac Failure.
8. DEXA scan and its clinical use.
9. Causes, treatment and prevention of Deep Vein Thrombosis.
10. Late onset Rheumatoid Arthritis.

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

PAPER III – GERIATRICS

Q.P. Code :202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. A 60 year old patient who is a known diabetic, hypertensive, coronary artery disease and depression on oral antidiabetic, diuretics, anti hypertensive drugs and antidepressants comes with complaints of recurrent falls over past 1 week. How will you evaluate and manage the patient?
2. Discuss the aetiology, pathogenesis, differential diagnosis and management of Acute Confusional State in Elderly.

II. Write notes on:

(10 x 7 = 70)

1. Functional assessment in elderly.
2. Long lie.
3. Sarcopenia in elderly.
4. Management of constipation in elderly.
5. Drug treatment for Parkinson's disease.
6. Solitary thyroid nodule.
7. Prostate specific antigen.
8. Advanced care planning.
9. Vaccines for elderly.
10. Evaluation and management of Hypoglycaemia.

**M.D. DEGREE EXAMINATION
BRANCH XVI – GERIATRICS
PAPER III – GERIATRICS**

Q.P. Code :202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Mild cognitive impairment – diagnostic criteria, progression and treatment modalities.
2. Immunology and aging- elaborate on the innate and adaptive immune systems and the impact of aging. Write a note on immunosenescence and cancer.

II. Write notes on:

(10 x 7 = 70)

1. What are the causes of erectile dysfunction and what are the treatment options currently available?
2. Compare and contrast the clinical features and areas involved in the brain in the four common dementias.
3. Progressive supra nuclear palsy – clinical features, management and prognosis.
4. Bladder retraining protocol.
5. Enumerate the age related causes of visual impairment. How would you approach them?
6. You are the doctor in charge of a transitional care home. It can accommodate 30 people at a time. What would be your pre requisites of admitting and discharging a patient? Who would you appoint to manage your patients and what would be their role in management of the patient?
7. What do you mean by “poly pharmacy”? How would you prevent it?
8. Respiratory failure – types causes and management.
9. Enumerate the causes and outline the treatment of acute kidney injury in an elderly male.
10. Benign essential tremor – clinical presentation, differential diagnosis and treatment.

[LO 162]

MAY 2019

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

PAPER III – GERIATRICS

Q.P. Code: 202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the types, diagnosis and management of incontinence in the elderly. Mention the reversible causes of incontinence.
2. Discuss currently accepted strategies for cancer screening in the elderly.

II. Write notes on:

(10 x 7 = 70)

1. Write a note on sick sinus syndrome.
2. Motor fluctuations in Parkinson's disease.
3. Drug induced renal impairment in the elderly.
4. Strategies for prevention of delirium in elderly inpatients.
5. Influenza vaccination.
6. Management of constipation in the elderly.
7. Write a short note on uroflowmetry.
8. Classification of myelodyslastic syndromes.
9. Write a note on Lewy body dementia.
10. Falls prevention strategy in the elderly.

[LP 162]

OCTOBER 2019

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

PAPER III – GERIATRICS

Q.P. Code: 202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. A 65 years old male known case of Diabetes Mellitus, chronic Kidney disease is admitted in Emergency ward with altered sensorium, fever, elevated total Leucocyte count and hypotension. How will you evaluate and manage this patient?
2. Write on Pathophysiology, evaluation and management of Frailty.

II. Write notes on:

(10 x 7 = 70)

1. Anticoagulants in Geriatric Practice: Indications and Agents.
2. Infective endocarditis.
3. Immunosenescence.
4. Paraneoplastic syndrome.
5. Approach to UGI bleed.
6. Medical management of benign prostatic hypertrophy.
7. Polysomnography.
8. Frax score.
9. Sarcopenia.
10. Sub clinical hypothyroidism.

[LQ 162]

AUGUST 2020
(MAY 2020 SESSION)
M.D. DEGREE EXAMINATION
BRANCH XVI – GERIATRICS
PAPER III – GERIATRICS

Sub. Code: 2057

Q.P. Code: 202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Etiology, pathogenesis and evaluation of Sarcopenia in elderly.
2. The causes, diagnosis and management of pulmonary embolism.

II. Write notes on:

(10 x 7 = 70)

1. Gait and balance assessment.
2. Isolated systolic hypertension.
3. Overactive bladder.
4. Metered dose inhalers (MDI).
5. Nonmotor symptoms of Parkinson's disease.
6. Diastolic dysfunction.
7. Hormone replacement therapy.
8. End of life care issues.
9. Assessment of delirium.
10. Extrapulmonary tuberculosis.

[MD 0721]

JULY 2021
(MAY 2021 SESSION)
M.D. DEGREE EXAMINATION
BRANCH XVI – GERIATRICS
PAPER III – GERIATRICS

Sub. Code: 2057

Q.P. Code: 202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Etiology, clinical features, differential diagnosis, investigations and treatment of myelodysplastic syndromes in elderly.
2. Definition, pathophysiology, clinical features, investigations and treatment of epilepsy in elderly.

II. Write notes on:

(10 x 7 = 70)

1. Normal pressure hydrocephalus.
2. Theories of aging.
3. Clostridium difficile colitis.
4. Deep vein thrombosis.
5. Vestibular rehabilitation.
6. Cognitive assessment tools.
7. SGLT₂ inhibitors in type 2 DM.
8. Hypersensitive carotid sinus syndrome.
9. Long term oxygen therapy.
10. Catheter associated urinary tract infections- prevention and management.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

PAPER III – GERIATRICS

Q.P. Code: 202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Perioperative assessment and management in older people.
2. Discuss about the types, clinical features and management of Bronchogenic carcinoma.

II. Write notes on:

(10 x 7 = 70)

1. Andropause.
2. Gastrointestinal Motility disorders in elderly.
3. Sleep Apnoea.
4. Benign paroxysmal positional vertigo.
5. Temporal Arteritis.
6. Anaemia of chronic diseases.
7. Total Parenteral Nutrition.
8. Clinical Frailty scales.
9. Drug holiday.
10. Malabsorption syndrome in elderly.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2057

M.D. DEGREE EXAMINATION

BRANCH XVI – GERIATRICS

PAPER III – GERIATRICS

Q.P. Code: 202057

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Etiopathogenesis, clinical presentation and management of the Parkinson - plus syndromes in older adults.
2. Approach to pyrexia of unknown origin in older adults.

II. Write notes on:

(10 x 7 = 70)

1. Elder abuse.
2. Polymyalgia Rheumatica.
3. Inflammatory Myopathies.
4. Rational drug prescribing in older adults.
5. Management of extra cranial carotid artery stenosis.
6. Herpes zoster- etiology, clinical features and management.
7. Atypical femur fractures due to drugs.
8. Dual energy X-ray absorptiometry in osteoporosis.
9. Dilated cardiomyopathy.
10. Psoriatic arthropathy.
