



RAN-2506270101010501

DCM Examination January - 2026

Diploma In Community Medicine (Paper I) Level I

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Use of pocket calculator is permitted

Seat No.:

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Student's Signature

- Q.1. "Discuss the epidemiology, clinical features, diagnosis, treatment, and control of leprosy in India. Critically evaluate the National Leprosy Eradication Programme (NLEP) with reference to its achievements and challenges. 30
- Q.2. Define nutritional assessment. Describe the various methods of nutritional assessment with suitable examples. 20
- Q.3. Enumerate the risk factors of hypertension. Discuss in detail the role of modifiable risk factors in its prevention and control. 20
- Q.4. **Write short notes on any three** 30
 - a. Health hazards of working in the textile industry.
 - b. Ethical issues in health research
 - c. Sample registration system - objectives and methodology.
 - d. Confounder and effect modifier in epidemiology - definitions and examples"



RAN-2506270101010502

DCM Examination January - 2026

Diploma In Community Medicine (Paper II) Level I

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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Student's Signature

- Q.1. Enumerate the basic principles of management. Describe in detail the steps involved in the planning process, illustrating your answer with suitable examples from public health programmes. 30
- Q.2. Describe the important highlights of national population policy. Describe the salient features in our approach to family planning. Describe how will you evaluate the performance of a PHC as DHO in family welfare programme. 20
- Q.3. Discuss the challenges and opportunities in implementing cervical cancer screening programmes for women in India. 20
- Q.4. Write short notes on any three 30
 - a. Medical audit- definition, objectives, and process
 - b. Use of hospital data for disease surveillance
 - c. National List of Essential Medicines - purpose, criteria, and recent updates
 - d. Health impacts of global warming - public health perspective



RAN-2506270101010503

DCM Examination January - 2026

Diploma In Community Medicine (Paper III) Level I

Time: 3 Hours]

[Total Marks: 100

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- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Seat No.:

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Student's Signature

- Q.1.** As a newly appointed Medical Officer at a Primary Health Centre (PHC), describe how you would assess the current status of the PHC. Outline a detailed plan for delivering services under various National Health Programmes, ensuring coverage of preventive, promotive, and curative aspects. **30**
- Q.2.** Describe the structure and organisation of the health care delivery system in India. State the goals of the system, list the major social security measures, and explain how Primary Health Care is ensured for all sections of the population. **20**
- Q.3.** Discuss the medical and social determinants of maternal mortality in India. Describe the strategies for prevention and control of maternal mortality at community, primary, secondary, and tertiary levels. **20**
- Q.4.** **Write short notes on any three** **30**
 - a. Role of information technology in health care
 - b. WHO'S activities in India - objectives, structure, and priority programmes
 - c. Discuss public private partnerships (PPP) in health sector - models, benefits, and limitations
 - d. Social marketing scheme - objectives, strategies, and examples in health services


RAN-2406120801010501
MD (Pharmacology) Examination January - 2026
Basic Sciences as applied to Pharmacology (Paper - I) Level - I
Time: 3 Hours]
[Total Marks: 100

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) All questions are compulsory (3) Figures to the right indicate maximum marks (4) Illustrate your answer with examples and diagrams if needed.	Seat No.: <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> <div style="border: 1px solid black; height: 80px; width: 100%;"></div> <div style="text-align: center; border-top: 1px solid black; padding-top: 5px;">Student's Signature</div>						

- Q. 1** Describe various ion channels & elaborate the role of ion Channels as drug targets. **40**
- Q. 2** Describe briefly: **30**
- Cholinergic neurotransmission
 - Pathways of drug-metabolism with modifying factors
- Q 3.** Write short note: **30**
- Structure activity relationship of β -blockers
 - Experiment of Alexander Fleming
 - Informed consent in GCP



RAN-2406120801010502

MD (Pharmacology) Examination January - 2026

Systemic Pharmacology, Chemotherapy & Therapeutics (Paper - II) Level - I

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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- (2) All questions are compulsory
- (3) Figures to the right indicate maximum marks
- (4) Illustrate your answer with examples and diagrams if needed.

Seat No.:

Student's Signature

- Q. 1** Anti-retroviral therapeutics - from past to present. **40**
- Q. 2** **Describe briefly:** **30**
- a) Prospects of Cannabinoids in therapeutics
 - b) Management of Iron deficiency anaemia
- Q. 3** **Write short note:** **30**
- a) Pharmacotherapy of hypertension in pregnancy
 - b) Antiandrogens
 - c) Successful P. vivax therapeutics in Indian context



RAN-2406120801010503

MD (Pharmacology) Examination January - 2026 Experimental Pharmacology, Bioassay, Biostatistics & Systemic Pharmacology (Paper -III) Level - I

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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- (3) Figures to the right indicate maximum marks
- (4) Illustrate your answer with examples and diagrams if needed.

Seat No.:

Student's Signature

- Q. 1.** Describe various animal models, techniques and instrument used for evaluation of anti-epileptic drugs. 40
- Q. 2.** **Describe briefly:** 30
- a) NTEP - Role of pharmacology in achieving the national aim.
 - b) Experimental & Patent Law in Pharmacology
- Q. 3.** **Write short note:** 30
- a) Toxins as therapeutic tool
 - b) Chi-Square test
 - c) Nano pharmacology



RAN-2406120801010504

MD (Pharmacology) Examination January - 2026

Clinical Pharmacology and Clinical Advances (Paper - IV) Level - I

Time: 3 Hours]

[Total Marks: 100

<p>સૂચના : / Instructions</p> <p>(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book</p> <p>(2) All questions are compulsory</p> <p>(3) Figures to the right indicate maximum marks</p> <p>(4) Illustrate your answer with examples and diagrams if needed.</p>	<p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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- Q. 1.** Evolving trends in therapeutics of diabetes mellitus - A global perspective. 40
- Q. 2.** Describe briefly: 30
- What is precision medicine? Explain with examples, its impact in the medical field.
 - Current Pharmacotherapeutics in the management of heart failure
- Q. 3.** Write short note: 30
- Potassium Channel modulators for peptic ulcer
 - Drugs in extremes of age
 - Reverse pharmacology

RAN-2406100301010501
M.S.(Orthopaedics) Examination January - 2026
Basic Science (Paper - I)
Time: 3 Hours]
[Total Marks: 100

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book. (2) Attempt all Questions. (3) Draw neat, labeled diagram whenever necessary. (4) All questions carry equal marks i.e. 25	Seat No.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p>
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- Q. 1.** Describe the anatomy of the Atlanto-axial region with special reference to radiological assessment. Describe briefly management of Atlanto-axial dislocation.
- Q. 2.** Describe the Anatomy and biomechanics of the knee joints. Discuss graft site morbidity of various grafts used for ACL reconstruction.
- Q. 3.** Describe in brief about ATLS? How of you manage a polytraumatized patient using principles of ATLS.
- Q. 4.** Describe the blood supply of scaphoid. Discuss treatment options and complications in scaphoid fractures



RAN-2406100301010502

M.S. (Orthopaedics) Examination January - 2026 Traumatology (Paper - II)

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Attempt all Questions.
- (3) Draw neat, labeled diagram whenever necessary.
- (4) All questions carry equal marks i.e. 25

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Student's Signature

- Q. 1. Discuss various treatment modalities available in case of recurrent dislocation of shoulder keeping in mind status of glenoid loss.
- Q. 2. Discuss in detail various modalities OF treatment which can be offered to a young patient who has sustained osteochondral fracture of patella.
- Q. 3. Classify Elbow dislocation. How will you manage an unreduced posterior dislocation of elbow in 10-year-old child?
- Q. 4. Describe briefly about blood supply of femoral head and its clinical significance with special reference to safe surgical dislocation of hip.

RAN-2406100301010503
M.S. (Orthopaedics) Examination January - 2026
Orthopaedic Disease (Paper - III)
Time: 3 Hours]
[Total Marks: 100
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- (4) All questions carry equal marks i.e. 25

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Student's Signature

- Q. 1.** Classify Spinal cord tumors. Describe clinical features and management of Ependymoma of Cervico medullary junction.
- Q. 2.** What are various types of Rickets? Discuss clinical features and management of Renal resistant Rickets
- Q. 3.** Discuss causes, types , clinical features and management of Complex Regional Pain Syndrome (CRPS)?
- Q. 4.** What is Hallux Varus deformity? its clinical features and management.


RAN-2406100301010504

M.S. (Orthopaedics) Examination January - 2026
Recent Advance in Orthopaedic (Paper - IV)

Time: 3 Hours]
[Total Marks: 100
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Fill up strictly the above details on your answer book.
- (2) Attempt all Questions.
- (3) Draw neat, labeled diagram whenever necessary.
- (4) All questions carry equal marks i.e. 25

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Student's Signature

- Q. 1. Discuss the role of Robotics in arthroplasty surgeries
- Q. 2. Describe various biomaterials used in orthopedics.
- Q. 3. Describe the causes for recurrent dislocation of patella. Discuss recent advances in management of recurrent dislocation of patella?
- Q. 4. Discuss the recent advances in the management of Tuberculosis of the Spine.



RAN-2406120701010501

M.D. Paediatrics Examination January - 2026

Basics sciences as related to the subject and community pediatrics

(Paper - I) Level - I

Time: 3 Hours]

[Total Marks: 100

<p>સૂચના : / Instructions</p> <p>(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book</p> <p>(2) Sketch neat and labelled diagram wherever necessary.</p> <p>(3) Figures to the right indicate full marks of the question.</p> <p>(4) All questions are compulsory.</p>	<p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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- Q. 1** Describe development of ventricular septum. Describe the management of ventricular septal defect. (10)
- Q. 2** Describe lymphopoiesis. Write clinical presentation of primary defects of antibody production. (10)
- Q. 3** **Short note (each of 5 marks)**
- Renal function tests.
 - Potassium metabolism
- Q. 4** **Short note (each of 5 marks)**
- Glomerular filtration.
 - Regulation of intravascular volume.
- Q. 5** **Short note (each of 5 marks)**
- Fetal Erythropoiesis.
 - CSF circulation
- Q. 6** **Short note (each of 5 marks)**
- School Health program
 - IMNCI
- Q. 7** **Short note (each of 5 marks)**
- IYCF guideline
 - National program for Prevention and Control of Deafness
- Q. 8** **Short note (each of 5 marks)**
- Vitamin A deficiency control policy.
 - Adolescent vaccination and Nutrition

- Q. 9 Short note (each of 5 marks)**
- a) Informed consent of participant in clinical research study
 - b) MRI in children

- Q. 10 Short note (each of 5 marks)**
- a) Child death review strategy
 - b) Khesari daal and ODAP
-



RAN-2406120701010502

M.D. Paediatrics Examination January - 2026

General Pediatrics And Allied Branches (Paper - II) Level - I

Time: 3 Hours]

[Total Marks: 100

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- Q. 1** Describe approach to a child with Recurrent Pneumonia. (10)
- Q. 2** Describe clinical presentation, diagnosis and management of TBM. (10)
- Q. 3** Write short notes on (5 Marks each)
- Assessment of Growth .
 - Dhatura poisoning
- Q. 4** Write short notes on (5 Marks each)
- Management of child with 50% burns
 - Ventilator parameters
- Q. 5** Write short notes on (5 Marks each)
- ABG interpretation
 - Investigations for developmental delay
- Q. 6** Write short notes on (5 Marks each)
- Karyotyping
 - Hemophagocytic Lymphohistiocytosis
- Q. 7** Write short notes on (5 Marks each)
- Catch up immunization of 6 year old unimmunized child .
 - Management of Acute Otitis media.
- Q. 8** Write short notes on (5 Marks each)
- Fundus examination
 - Epidermal necrolysis
- Q. 9** Write short notes on (5 Marks each)
- Nutritional management of SAM
 - Classification of Epilepsy by ILAE
- Q. 10** Write short notes on (5 Marks each)
- Management of acute Osteomyelitis
 - Pneumococcal vaccine

RAN-2406120701010503
M.D. Pediatrics Examination January - 2026
Systemic Pediatrics (Paper - III) Level - I
Time: 3 Hours]
[Total Marks: 100

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- Q. 1** Write differential diagnosis and medical management of child with cyanotic heart disease (10)
- Q. 2** Evaluation of child with urinary tract infection. Management of Vesico ureteric reflux (10)
- Q. 3. Write short notes on (5 Marks each)**
a) Differential Diagnosis of Chronic Diarrhoea
b) Management of cholestatic jaundice
- Q. 4 Write short notes on (5 Marks each)**
a) Diagnosis and treatment of croup
b) Long term management of child with Haemophilia
- Q. 5 Write short notes on (5 Marks each)**
a) Management of nephrotic Syndrome
b) Diagnosis of congenital Adrenal Hyperplasia
- Q. 6 Write short notes on (5 Marks each)**
a) Chandipura Encephalitis
b) Treatment of syndromic epilepsy
- Q. 7 Write short notes on (5 Marks each)**
a) Intussusception
b) Diagnostic evaluation of child with pancytopenia
- Q. 8 Write short notes on (5 Marks each)**
a) Pulmonary Haemorrhage
b) Diagnostic work up for child with Thyroid disorder
- Q. 9 Write short notes on (5 Marks each)**
a) Insulin Therapy
b) Acute Flaccid Paralysis

Q. 10 **Write short notes on (5 Marks each)**

- a) Long term management of child with sickle cell disease
 - b) Ventilator Associated Pneumonia
-

RAN-2406120701010504
M.D. Pediatrics Examination January - 2026
Recent Advances and Neonatology (Paper - IV) Level - I
Time: 3 Hours]
[Total Marks: 100

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- Q. 1** Write complications associated with prematurity and Management of baby with respiratory distress due to Hyaline membrane Disease. (10)
- Q. 2** Role of monoclonal antibodies in pediatric therapeutics. (10)
- Q. 3** Write Short notes on (each for 5 marks)
a) Newer diagnostic modalities for pulmonary diseases
b) Gene therapy
- Q. 4** Write Short notes on (each for 5 marks)
a) Ivlg in Viral Myocarditis.
b) Surgery in seizure disorders.
- Q. 5** Write Short notes on (each for 5 marks)
a) PPHN.
b) Human Milk Banking.
- Q. 6** Write Short notes on (each for 5 marks)
a) Infant of diabetic mother
b) Management of baby born to mother with varicella
- Q. 7** Write Short notes on (each for 5 marks)
a) Management of baby with Meningomyelocele.
b) Hospital Care of unknown baby found on road.
- Q. 8** Write Short notes on (each for 5 marks)
a) Neonatal seizures
b) Care of Small for gestational age baby
- Q. 9** Write Short notes on (each for 5 marks)
a) Management of Tracheoesophageal fistula
b) New Born with Ambiguous genitalia

Q. 10 **Write Short notes on (each for 5 marks)**

- a) Bronchopulmonary dysplasia
 - b) New Born Screening
-



RAN-2406100501010501

M.S. Obst & Gynaec Examination January - 2026

Master of Surgery (Obstetrics & Gynaecology) (Paper I) Level I

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Student's Signature

- Q.1.** Discuss physiology of normal labour. How shall you diagnose obstructed labour? Discuss problems encountered during delivery of the baby in obstructed labour due to CPD. Also write on active management of third stage of labour. **28**
- Q.2.** Write short notes on : (12 marks each) **36**
- How do you diagnose and manage iron deficiency anaemia during pregnancy remote from term.
 - Discuss management of a case of foetal distress in second stage of labour.
 - Parametrium
- Q.3.** Write short notes on (12 marks each) **36**
- Latent phase of labour
 - TSH level in pregnancy
 - Ovarian cyst in pregnancy


RAN-2406100501010502
M.S. Obst & Gynaec Examination January - 2026
Master of Surgery (Obstetrics & Gynaecology) (Paper II) Level I
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

- Q.1.** A primigravida women comes with dyspnoea at 34 weeks of gestation. How will you investigate and manage her? **28**
- Q.2.** **Short notes (12 marks each)** **36**
- Vaccination in pregnancy
 - PROM at 28 wks of gestation, How shall you manage the case?
 - Write on causes, investigations & management of peripartum cardionopathy
- Q.3.** **Write short notes on (12 marks each)** **36**
- Nitidipine in obstetrics
 - Essential new born care
 - Dignosis of a twin pregnancy & antenatal care.


RAN-2406100501010503
M.S. Obst & Gynaec Examination January - 2026
Master of Surgery (Obstetrics & Gynaecology) (Paper III) Level I
સૂચના : / Instructions

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

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- Q.1.** A young 18 years old girl comes to your OPD with dermoid cyst of size 2 x 2 cm. **28**
 What shall be your line of management? what are clinical features & complications related to this condition? What are points of differentiation between a benign & a malignant ovarian cyst?
- Q.2.** **Write short notes on** **36**
 a. HPV Infection in female genital tract
 b. Genitourinary syndrome of menopause
 c. Recurrent neurological candidiasis
- Q.3.** **Write short notes on (12 marks each)** **36**
 a. Filio stage I leiomyoma
 b. Long acting reversable contraceptives
 c. Clinical features & management of Turners syndrome


RAN-2406100501010504
M.S. Obst & Gynaec Examination January - 2026
Master of Surgery (Obstetrics & Gynaecology) (Paper IV) Level I
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Student's Signature

Q.1. Write short notes on (10 marks each)

- Write on pre-conceptional counselling & care
- What are components of NIPT? How shall you manage a care with positive NIPT
- Write on clinical features, investigation, & treatment of stress urinary incontinence
- Write on components of infection control in obstetrics & gynecology.
- Write on pre-conception counselling & care
- Write on various screening methods of cervical cancer
- How shall you manage a 50 yrs old post menopausal female with hot flushes disturbing her daily activity.
- What are the various uses of colour doppler USG in first trimester of pregnancy
- GnRH antagonists
- Microwave ablation in Gynecology



RAN-2406120101010501

M.D. (Anaesthesiology) Examination January - 2026
Anaesthesiology (Paper - I) (Level - I)

Time: 3 Hours]

[Total Marks: 100

<p>સૂચના : / Instructions</p> <p>(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book</p>	<p>Seat No.:</p> <table style="width: 100%; text-align: center;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <p style="text-align: center; margin-top: 5px;">Student's Signature</p>						

- Q.1. Write short notes on: - (4+2+4=10)**
 A. Null hypothesis and alternate hypothesis.
 B. Sample size calculation.
 C. Blinding, Randomisation and allocation concealment.
- Q.2. Write short notes on: - (5+5=10)**
 A. Thromboelastography
 B. Venturi principle and its clinical application.
- Q.3. Discuss: - (5+5=10)**
 A. FRC, closing volume and their importance in anaesthesia.
 B. Factors affecting uptake and distribution of inhalational anaesthetic agents.
- Q.4. Describe: - (4+3+3=10)**
 A. Cerebral autoregulation and implication of various inhalational agents on it.
 B. Informed consent in anaesthesia.
 C. Key points in Crisis Resource Management in Operation Room.
- Q.5. Discuss: - (5+5=10)**
 A. Simulators in anaesthesia.
 B. Chain of survival in adults and Paediatric patients.
- Q.6. Discuss Anatomy, physiology, regulation and transport across Blood-brain Barrier. (10)**
- Q.7. Write shortly on: - (5+5=10)**
 A. Sugammadex.
 B. Noradrenaline
 C. Propofol.
- Q.8. Write notes on:- (5+5=10)**
 A. TRALI
 B. Modern Integrated Anaesthesia work station.

Q.9. Write short notes on: -

(5+5=10)

- A. Land marks of wrist block.
- B. Segmental spinal anaesthesia.

Q.10. Write notes on: -

(4+3+3=10)

- A. LMA- Supreme
 - B. RAE tube.
 - C. Videolaryngoscope.
-



RAN-2406120101010502

M.D. (Anesthesiology) Examination January - 2026 General Medicine (Paper - II) Level - I

Time: 3 Hours]

[Total Marks: 100

<p>સૂચના : / Instructions</p> <p>(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book.</p>	<p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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- Q. 1.** Discuss preoperative evaluation, optimisation, intraoperative and postoperative management of potential kidney recipient in transplant surgery. (3+2+3+2=10)
- Q. 2.** Define awareness during general anaesthesia. Describe risk factors, signs, various modalities to monitor depth of anaesthesia (1+2+2+5=10)
- Q. 3.** Define morbid obesity. Discuss perioperative management of 32-year old male obese patient with OSA for sleeve gastrectomy. (2+8=10)
- Q. 4.** Discuss challenges of non-operating room anaesthesia (NORA) in critically ill patients. (10)
- Q. 5.** Describe the cardiac conduction system. Discuss the management of patient with implantable cardioverter defibrillator posted for laparotomy. (3+7=10)
- Q. 6.** Define Post operative cognitive dysfunction (POCD). What are different test to evaluate POCD. Discuss in detail preventive and therapeutic measures in POCD. How to differentiate it from post operative delirium. (1+4+4+1=10)
- Q. 7. Write notes on:** (5+5=10)
- Post cardiac resuscitation care.
 - Overpressure induction and its clinical application.
- Q. 8. Discuss briefly:** (5+5=10)
- ASRA guidelines for neuraxial blocks for patients on anticoagulants.
 - Enumerate various regional blocks for pain relief in abdominal surgeries, explain in detail any one of them.
- Q. 9. Write notes on:** (5+5=10)
- Anaesthesia considerations in robotic surgeries.
 - Anaesthesia management in patients of severe PPH.
- Q. 10. Write briefly:** (5+5=10)
- ERAS protocol
 - Discharge criteria from PACU.

RAN-2406120101010503
M.D. (Anaesthesiology) Examination January - 2026
Anaesthesiology (Paper - III) (Level - I)
Time: 3 Hours]
[Total Marks: 100

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> </div> <div style="border: 1px solid black; height: 80px; margin-bottom: 10px;"></div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Student's Signature</div>
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1. Discuss anaesthetic management of parturient with severe PIH with HELLP syndrome. (10)
2. Perioperative management of 2 days old baby for Tracheoesophageal fistula repair surgery. (10)
3. **Write notes on :-** (5+5=10)
 - A. CPR in pregnant patient.
 - B. Neonatal resuscitation.
4. **Discuss briefly: -** (5+5=10)
 - A. Anaesthetic Concerns in consumers of cannabis and other psychotropic agents.
 - B. Anaesthetic considerations for endovascular coiling of cerebral aneurysms.
5. **Write briefly: -** (5+5=10)
 - A. Anaesthesia concerns related to electroconvulsive therapy.
 - B. Potential nerve injuries during anaesthesia and surgical positioning
6. Discuss anaesthetic implications for laparoscopic Hysterectomy surgery. (10)
7. Discuss Pathophysiology, Clinical features, Diagnosis and management of Negative Pressure Pulmonary Oedema. (2+3+2+3=10)
8. **Write short notes on:** (3+3+4=10)
 - A. PENG block
 - B. TAP block
 - C. Scalp block
9. Discuss preoperative assessment, optimization, perioperative management of patient of Pheochromocytoma. (3+3+4=10)
10. Discuss perioperative concerns and anaesthetic management in spine surgeries. What are the anticipated complications and their prevention. (5+5=10)



RAN-2406120101010504

M.D. (Anesthesiology) Examination January - 2026

(Intensive care, Pain medicine and Recent Advances) (Paper - IV) Level - I

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.

Seat No.:

Student's Signature

- Q. 1. Discuss in brief the benefits and implications of high flow nasal oxygen therapy in anaesthesia and critical care set up. (10)
- Q. 2. Discuss the anaesthetic considerations for caesarean section in a super obese parturient. (10)
- Q. 3. Discuss the role of trans oesophageal echocardiography (TEE) in anaesthesia and intensive care. (10)
- Q. 4. **Discuss briefly:** (5+5=10)
A. Recent trends in vasodilatory shock.
B. Surviving sepsis guidelines.
- Q. 5. **Discuss briefly:** (2+4+4=10)
A. Transdermal Drug administration.
B. Universal precautions in HIV patients Handling.
C. Novo Insulin preparations.
- Q. 6. Discuss the importance of lung ultrasound in anaesthesia and intensive care. (10)
- Q. 7. Discuss multi modal analgesia for major abdominal and thoracic surgeries along with newer regional blocks. (10)
- Q. 8. **Short notes on :** (3+2+5=10)
A. Smart phone in anaesthesia practice.
B. A.I. in anaesthesia.
C. USG for airway assessment.
- Q. 9. **Give a brief account of:** (5+5=10)
A. Simulators in anaesthesia training.
B. Methylene blue in Anaesthesia and Intensive care.
- Q. 10. **Discuss:** (5+5=10)
A. Role of magnesium sulphate in anaesthesia practice.
B. Indices to recognise Frailty And its clinical implication..



RAN-2406100101010501

M.S. General Surgery Examination January - 2026

General Surgery (M.S) (Paper - I) Level - I

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Student's Signature

SECTION I

Q. 1 Write short notes on

- A) Lefort classification of facial injuries
B) Lucid interval

10

Q. 2

- A) Describe various types of nerve injuries.
B) Discuss brachial plexus

10

SECTION II

Q. 3

- A) Classify wounds. Describe biological process in wound healing
B) Keloid

10

Q. 4

- A) Describe the surgical principles in missile injury
B) Subtrochantric fracture

10

SECTION III

Q. 5

Describe the diagnosis and management Dyshormogenic goitre

10

Q. 6

Discuss the disorders and manifestations of adrenal cortex

10

SECTION IV

Q. 7

- A) Discuss surgical management of Hydatid cyst of Liver
B) Liver Flukes

10

Q. 8

- A) Surgical audit cycle
B) Informed consent

10

SECTION V

Q. 9

10

- A) Flail chest
- B) Day care surgery

Q. 10

10

- A) Benign Breast disease
 - B) Umbilical hernia
-

RAN-2406100101010502
M.S. General Surgery Examination January - 2026
General Surgery (M.S) (Paper - II) Level - I
Time: 3 Hours]
[Total Marks: 100
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

Student's Signature

- Q. 1.** Describe etiopathology, clinical features and Management of Carcinoma Esophagus **10**
- Q. 2.** Discuss various presentation, clinical features and management of tuberculosis peritonitis **10**
- Q. 3.** Discuss the surgical anatomy of parotid salivary gland. Discuss the management of mixed parotid tumour **10**
- Q. 4.** Discuss the management of iatrogenic bile duct injury in laparoscopic cholecystectomy. **10**
- Q. 5.** Discuss the etiopathology, clinical features, diagnosis and management of Hepatocellular carcinoma **10**
- Q. 6.** **10**
A) MEN type I
B) Congenital vascular malformations
- Q. 7** Discuss the management of obstructive left sided colonic carcinoma **10**
- Q. 8.** **10**
A) Thoracic outlet syndrome
B) Radical neck dissection
- Q. 9.** **10**
A) Discuss the presentation and management of GIST
B) Type I Gastritis
- Q. 10.** Discuss the clinical features, pathology and surgical management of ulcerative colitis. **10**

RAN-2406100101010503
M.S. General Surgery Examination January - 2026
General Surgery (Paper - III) Level - I
Time: 3 Hours]
[Total Marks: 100
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

Student's Signature
SECTION I

- Q.1** Discuss the management of carcinoma Breast T2N0M0 in a 40 year old female patient **10**
- Q.2** **10**
- A) Enumerate the causes and management of hydronephrosis
- B) Polycystic kidney

SECTION II

- Q.3** Discuss the Pathophysiology, diagnosis and management of Multinodular Goitre **10**
- Q.4** Discuss the anatomy of axilla and it's relation to axillary clearance for Breast cancers. **10**

SECTION III

- Q.5** **10**
- A) Enumerate the causes and management of rupture urethra
- B) Bladder Diverticulum
- Q.6** **10**
- A) Laparoscopic management of Inguinal hernia
- B) Deep Vein Thrombosis(DVT)

SECTION IV

- Q.7** **10**
- A) Non Hodgkins Lymphoma
- B) Cystosarcoma Phyllodes
- Q.8** **10**
- A) Discuss the classification of testicular tumours
- B) Management of seminoma

SECTION V

- Q. 9** **10**
- A) Mediastinal tumour
 - B) Oncogenes
- Q. 10** **10**
- A) Carotid Body tumour
 - B) Robotic Prostectomy
-


RAN-2406100101010504
M.S. General Surgery Examination January - 2026
General Surgery (Paper -IV) Level - I
Time: 3 Hours]
[Total Marks: 100
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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SECTION I

- Q. 1** **10**
 A) Staplers in surgery
 B) Stem cell therapy
- Q. 2** **10**
 Discuss the current concepts in diagnosis and management of portal hypertension

SECTION II

- Q. 3** **10**
 Describe the role of Iodocyanide green fluorescence imaging in surgery and its uses in intra-operative ultrasound.
- Q. 4** **10**
 Discuss briefly about small bowel transplantation

SECTION III

- Q. 5** **10**
 A) Sphincter saving procedure in Low Rectal Carcinoma
 B) Application of nuclear medicine in surgery
- Q. 6** **10**
 A) Ethical considerations in a brain death in the context of organ transplantation
 B) Catheter directed therapy options for iliofemoral venous thrombosis

SECTION IV

- Q. 7** **10**
 Discuss the principles of Oncoplastic Breast conservation surgery.
- Q. 8** **10**
 Classify Bariatric surgery procedure and describe restrictive procedure.

SECTION V

- Q. 9** **10**
 A) Positron emission Tomography
 B) Surgical management of Parkinson's disease
- Q. 10** **10**
 A) Management of early Carcinoma of stomach
 B) Energy devices in general surgery



RAN-2406120501010501
M.D. Examination January - 2026
General Medicine (Paper - I)

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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- Q. 1. Describe blood supply of heart under the following headings. (25)**
- Proper labelled diagram
 - Origin and branches
 - Supplies
 - Functional consideration
- Q. 2. Describe Pancreatic function test under the following headings. (25)**
- Indications
 - Types
 - Interpretation
 - Clinical relevance
- Q. 3. Describe Ambulatory Blood Pressure Monitoring under the following headings. (25)**
- Principles
 - Indications
 - Advantages
 - Limitations
- Q. 4. Write short note on. (25)**
- Discuss the differential diagnosis and approach to septic mimics,
 - How do you differentiate central vs peripheral causes in Acute Vestibular Syndrome?



RAN-2406120501010502
M.D. Examination January - 2026
General Medicine (Paper - II)

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the above details on your answer book.

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Student's Signature

- Q. 1. Describe pericardial effusion under the following headings. (25)**
- i) Etiology
 - ii) Pathogenesis
 - iii) Clinical features and its complications
 - iv) Management
- Q. 2. Describe Acute Myeloid Leukemia, under the following headings. (25)**
- i) Clinical features
 - ii) Staging
 - iii) Diagnosis
 - iv) Management
- Q. 3. Describe acute paraparesis/paraplegia under the following headings. (25)**
- i) Etiology
 - ii) Approach
 - iii) Clinical features and complications
 - iv) Management
- Q. 4. Write short note on. (25)**
- i) Describe the clinical features, diagnostic approach, clinical significance, and management of Diabetic Cheirarthropathy.
 - ii) Paraneoplastic syndromes



RAN-2406120501010503

M.D. Examination January - 2026

General Medicine (Paper - III) (SET - A)

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.

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Student's Signature

- Q. 1. Describe malabsorption syndrome under the following headings. (25)**
- Aetiopathogenesis
 - Clinical features
 - Diagnostic criteria
 - Management
- Q. 2. Describe Chronic obstructive pulmonary disease under the following headings. (25)**
- Aetiopathogenesis
 - Clinical features
 - Diagnosis
 - Management
- Q. 3. Describe organophosphate poisoning under the following headings. (25)**
- Aetiopathogenesis
 - Clinical features and complication
 - Diagnosis
 - Management
- Q. 4. Write short note on. (25)**
- Metabolic Complications of Antiretroviral Therapy
 - Nosocomial and device related infections



RAN-2406120501010504
M.D. Examination January - 2026
General Medicine (Paper - IV)

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Student's Signature

- Q. 1. Describe Parenteral nutrition therapy under the following headings. (25)**
- Definition, composition, principles and route of administration and
 - Indications and contraindications
 - Advantages and disadvantages
 - Recent advances
- Q. 2. Describe Acute Respiratory Distress Syndrome under the following headings. (25)**
- Definition
 - Etiopathogenesis
 - Diagnosis
 - Management and prognosis
- Q. 3. Describe myasthenia gravis under the following headings. (25)**
- Etiopathogenesis
 - Clinical features and classification
 - Diagnosis
 - Management and prognosis
- Q. 4. Write short note on. (25)**
- Current and promising treatments in leishmaniosis
 - Radiation hazards