

DETAILED SYLLABUS FOR THE POST OF ASSISTANT PROFESSOR IN GENERAL SURGERY IN MEDICAL EDUCATION

(Cat.Nos.: 014/2026)

TOTAL MARKS 100

MODULE 1 : ANATOMY AND BASIC PRINCIPLES. [20 marks]

- | | |
|---|---|
| 1. Congenital malformations | 26. Surgical research |
| 2. Haemorrhage and blood transfusion | 27. Antimicrobial treatment of surgical infections |
| 3. Stem cells | 28. Nutritional assessment |
| 4. Surgical site infections | 29. Anaesthesia and pain relief |
| 5. Anatomy of stomach | 30. Principles of advanced energy devices. |
| 6. Anatomy of Liver and Couinaud liver segments | 31. Surgical ethics , Informed consent |
| 7. Metabolic response to injury | 32. Prevention of surgical infections |
| 8. Wound healing | 33. Critical care in surgical patients |
| 9. Suture materials | 34. Parenteral nutrition |
| 10. Burns | 35. Postoperative care |
| 11. Anatomy of Anal canal | 36. Wound healing and factors influencing |
| 12. Necrotising soft tissue infections. | 37. Management of cancer |
| 13. Tissue engineering and regeneration. | 38. Patient safety and surgeon |
| 14. Principles of diathermy. | 39. Diagnostic imaging |
| 15. Immuno histochemistry | 40. Pre operative care and high risk surgical patient |
| 16. Anatomy of breast and its lymphatic drainage. | 41. Surgical audit |
| 17. Gas gangrene. | 42. Filariasis |
| 18. Mycetoma and typhoid. | 43. Principles of microscopic diagnosis |
| 19. Compartment syndrome. | 44. Fluid and electrolytes management |
| 20. Limitations of minimal access surgery. | 45. Day care surgery |
| 21. Shock and its management. | 46. Evidence based surgery |
| 22. Viral infections relevant to surgery. | 47. Hydatid disease. |
| 23. Tuberculosis. | 48. Health care events and patient safety |
| 24. Principles of anastomoses. | 49. Hazards of imaging |
| 25. Diagnostic molecular pathology. | 50. Mediators of metabolic response to injury |

MODULE 2 : HEAD AND NECK.**[20 marks]**

- | | |
|--|--|
| <ol style="list-style-type: none">1. Vascular neuro surgery2. Cleft lip and palate3. Carcinoma tongue4. Thyrotoxicosis5. Primary hyper parathyroidism6. Head trauma7. Carcinoma cheek8. Benign thyroid swellings9. Parotid neoplasms10. Branchial cyst11. Maxillo fascial trauma12. Hydrocephalus13. Premalignant conditions of oral cavity.14. Differentiated thyroid carcinomas.15. Secondary hyper parathyroidism.16. Crush syndrome / Triage17. Oral malignant melanoma.18. Intra cranial infections.19. Medullary carcinoma thyroid.20. Parathyroid carcinoma.21. Brain tumours.22. Carcinoma Lip23. Anaplastic carcinoma and lymphoma thyroid24. Tertiary hyper parathyroidism25. Secondary toxic goitres. | <ol style="list-style-type: none">26. Brain stem death27. Carcinoma alveolus28. Thyroiditis and its management29. Hypoparathyroidism30. Chemodectoma31. Tracheostomy and other emergency air way measures32. Submandibular salivary gland diseases33. Investigations of thyroid swellings34. Recurrent hyperparathyroidism35. Thyroglossal cysts and fistulas36. Vocal fold palsy37. Carcinoma floor of mouth38. MEN Syndrome39. Solitary thyroid nodule40. Neck nodes, Lymphoma, Causes of lymphadenitis41. Primary tumours of neck42. Thyroid imaging43. Subdural haemorrhage, Extradural haemorrhage44. Modified radical neck dissection [MRND]45. Papillary carcinoma thyroid46. Inflammatory conditions of neck47. Follicular carcinoma thyroid48. SOND [Supra omohyoid neck dissection]49. Infections of salivary gland50. Glasgow coma scale score. |
|--|--|

MODULE 3 : THORAX, BREAST AND VASCULAR SYSTEM [20 marks]

- | | |
|--|--|
| <ol style="list-style-type: none">1. Benign breast diseases2. Chest trauma3. Acute limb ischaemia4. Chronic venous hypertension5. Primary lymphedema | <ol style="list-style-type: none">26. Advanced breast carcinoma27. Cardiac tamponade28. Critical limb ischaemia29. Congenital venous anomalies30. Secondary lymphedema |
|--|--|

6. Early Breast carcinoma 7. Aneurysms. 8. Investigations of venous disorders 9. Flail chest 10. Deep vein thrombosis. 11. Skin tumours. 12. Vascular lesions..Haemangiomas,A V malformations. 13. Locally advanced breast carcinoma[LABC] 14. Cardio pulmonary bypass. 15. Primary tumours of mediastinum. 16. Thoracic injuries. 17. Duct ectasia, Paget's disease of breast 18. Phylloid tumours of breast 19. Mammography 20. Investigations of an arterial occlusive disease. 21. Blast injuries 22. Investigations of a breast lump. 23. Diabetic foot and ischaemic ulcers of leg. 24. Diaphragmatic hernias. 25. Aortic dissection.	31. Breast reconstruction 32. Varicose veins 33. Thrombo angitis obliterates 34. Vascular grafts 35. Carcinoma of male breast 36. Thoracic outlet syndrome 37. Pleural effusion 38. Congenital adrenal hyperplasia 39. Fibroadenoma, Breast abscess, A N D I 40. Management of varicose veins 41. Gynaecomastia 42. Aortic aneurysm 43. Pneumothorax 44. Bronchopleural fistula 45. Prognostic factors of carcinoma breast 46. Sarcoma of breast 47. V A T S 48. A V Malformations 49. Pericardial effusion 50. Retrosternal goitres
--	---

MODULE 4 : ABDOMEN AND G I T.

[20 marks]

1. Inguinal hernia 2. Acute pancreatitis 3. Management of intestinal obstruction 4. Abdominal tuberculosis 5. Anorectal abscess 6. Oesophageal disorders 7. Gall stones 8. Haemorrhoids 9. Blunt abdominal trauma 10. Retroperitoneal tumours 11. Pheochromocytoma. 12. Neuro endocrine tumours of stomach n small bowel. 13. Intussusception.	26. Carcinoma rectum and anal canal 27. Pancreatic pseudocysts 28. Calculous cholecystitis 29. Abdominal wall hernias 30. Splenic trauma. 31. Insulinoma, carcinoma pancreas 32. Acute mesenteric ischaemia 33. Adreno cortical carcinoma 34. Ventral hernias 35. Splenomegaly, Hyper splenism, Hemolytic anaemia 36. Gastrinoma , Gastric lymphomas 37. Peritonitis, Acute appendicitis 38. F A P , Ulcerative colitis
--	---

14. Sigmoid volvulus / Prolapse rectum. 15. Perineal hernias. 16. Carcinoma colon. 17. Mesenteric cyst. 18. Femoral and spigelian hernias. 19. Chronic calcific pancreatitis 20. Empyema gall bladder 21. Carcinoma gall bladder / Choledochal cyst 22. G I S T 23. Epigastric and lumbar hernias 24. Fissure in ano 25. Pilonidal sinus.	39. Liver tumours 40. Hiatus hernias, Motility disorders of oesophagus 41. Intraperitoneal abscess 42. Carcinoma oesophagus 43. Haematemesis and Malena 44. Liver trauma 45. Inflammatory bowel disease 46. Tumours of peritoneum 47. Acute intestinal obstruction 48. Retroperitoneal tumours and conditions 49. G E R D ,Gastritis, Helicobacter pylori 50. Liver abscess, Hepatitis
--	---

MODULE 5 : URINARY SYSTEM AND RECENT ADVANCES [20 marks]

1. Kidney tumours 2. Testicular swellings 3. Robotic surgery 4. Liver transplantation 5. Endoscopic ultrasound[E U S] 6. Carcinoma prostate 7. Torsion testes 8. Lap.hernia surgery ...T A P 9. Small bowel transplantation 10. Thoracoscopy 11. N O T E S [Natural orifice transluminal endoscopic surgery] 12. Laparoscopic cholecystectomy 13. Carcinoma urinary bladder 14. B P H [Benign prostatic hyperplasia] 15. Hydrocele /Orchitis. 16. Laparoscopic surgery and its techniques. 17. Damage control surgery. 18. Carcinoma penis. 19. Prostatitis 20. Varicocele. 21. Single incision laparoscopic surgery[SILS] 22. Laparoscopic anterior resection	26. T E P 27. Laparoscopic appendicectomy 28. Renal cell carcinoma 29. Urethral injury 30. Hypospadias. 31. Tissue expansion,Reconstructive surgery 32. Grafts and flaps 33. Laparoscopic hemicolectomy 34. Renal tuberculosis 35. Neoplasms of urinary bladder 36. T A R 37. Bladder trauma 38. Urinary incontinence 39. Capsule endoscopy 40. Ectopic testes,Undescended testes 41. Vascularised composite allografting / graft rejection 42. P E T Scan, M R Angiogram 43. Stapler haemorrhoidectomy 44. Renal trauma 45. Nephroblastoma 46. Bariatric and metabolic surgery 47. Liver transplantation ,Organ donation
--	--

23. Epididymal cyst	48. Haematuria ,Bladder stones
24. Nephrolithiasis and its management	49. Ureterocele,Ectopic kidney,Horseshoe kidney
25. Phimosis and paraphimosis.	50. Tuberculosis of urinary tract

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