

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

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"><li>1. Vascular neuro surgery</li><li>2. Cleft lip and palate</li><li>3. Carcinoma tongue</li><li>4. Thyrotoxicosis</li><li>5. Primary hyper parathyroidism</li><li>6. Head trauma</li><li>7. Carcinoma cheek</li><li>8. Benign thyroid swellings</li><li>9. Parotid neoplasms</li><li>10. Branchial cyst</li><li>11. Maxillo fascial trauma</li><li>12. Hydrocephalus</li><li>13. Premalignant conditions of oral cavity.</li><li>14. Differentiated thyroid carcinomas.</li><li>15. Secondary hyper parathyroidism.</li><li>16. Crush syndrome / Triage</li><li>17. Oral malignant melanoma.</li><li>18. Intra cranial infections.</li><li>19. Medullary carcinoma thyroid.</li><li>20. Parathyroid carcinoma.</li><li>21. Brain tumours.</li><li>22. Carcinoma Lip</li><li>23. Anaplastic carcinoma and lymphoma thyroid</li><li>24. Tertiary hyper parathyroidism</li><li>25. Secondary toxic goitres.</li></ol>	<ol style="list-style-type: none"><li>26. Brain stem death</li><li>27. Carcinoma alveolus</li><li>28. Thyroiditis and its management</li><li>29. Hypoparathyroidism</li><li>30. Chemodectoma</li><li>31. Tracheostomy and other emergency air way measures</li><li>32. Submandibular salivary gland diseases</li><li>33. Investigations of thyroid swellings</li><li>34. Recurrent hyperparathyroidism</li><li>35. Thyroglossal cysts and fistulas</li><li>36. Vocal fold palsy</li><li>37. Carcinoma floor of mouth</li><li>38. M E N Syndrome</li><li>39. Solitary thyroid nodule</li><li>40. Neck nodes, Lymphoma, Causes of lymphadenitis</li><li>41. Primary tumours of neck</li><li>42. Thyroid imaging</li><li>43. Subdural haemorrhage , Extradural haemorrhage</li><li>44. Modified radical neckdissection[MRND]</li><li>45. Papillary carcinoma thyroid</li><li>46. Inflammatory conditions of neck</li><li>47. Follicular carcinoma thyroid</li><li>48. S O N D [Supra omohyoid neck dissection ]</li><li>49. Infections of salivary gland</li><li>50. Glasgow coma scale score.</li></ol>
--	---

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

<ol style="list-style-type: none"><li>1. Benign breast diseases</li><li>2. Chest trauma</li><li>3. Acute limb ischaemia</li><li>4. Chronic venous hypertension</li></ol>	<ol style="list-style-type: none"><li>26. Advanced breast carcinoma</li><li>27. Cardiac tamponade</li><li>28. Critical limb ischaemia</li><li>29. Congenital venous anomalies</li></ol>
--	---

<ol style="list-style-type: none"> <li>5. Primary lymphedema</li> <li>6. Early Breast carcinoma</li> <li>7. Aneurysms.</li> <li>8. Investigations of venous disorders</li> <li>9. Flail chest</li> <li>10. Deep vein thrombosis.</li> <li>11. Skin tumours.</li> <li>12. Vascular lesions..Haemangiomas,A V malformations.</li> <li>13. Locally advanced breast carcinoma[LABC]</li> <li>14. Cardio pulmonary bypass.</li> <li>15. Primary tumours of mediastinum.</li> <li>16. Thoracic injuries.</li> <li>17. Duct ectasia, Paget's disease of breast</li> <li>18. Phylloid tumours of breast</li> <li>19. Mammography</li> <li>20. Investigations of an arterial occlusive disease.</li> <li>21. Blast injuries</li> <li>22. Investigations of a breast lump.</li> <li>23. Diabetic foot and ischaemic ulcers of leg.</li> <li>24. Diaphragmatic hernias.</li> <li>25. Aortic dissection.</li> </ol>	<ol style="list-style-type: none"> <li>30. Secondary lymphedema</li> <li>31. Breast reconstruction</li> <li>32. Varicose veins</li> <li>33. Thrombo angitis obliterates</li> <li>34. Vascular grafts</li> <li>35. Carcinoma of male breast</li> <li>36. Thoracic outlet syndrome</li> <li>37. Pleural effusion</li> <li>38. Congenital adrenal hyperplasia</li> <li>39. Fibroadenoma, Breast abscess, A N D I</li> <li>40. Management of varicose veins</li> <li>41. Gynaecomastia</li> <li>42. Aortic aneurysm</li> <li>43. Pneumothorax</li> <li>44. Bronchopleural fistula</li> <li>45. Prognostic factors of carcinoma breast</li> <li>46. Sarcoma of breast</li> <li>47. V A T S</li> <li>48. A V Malformations</li> <li>49. Pericardial effusion</li> <li>50. Retrosternal goitres</li> </ol>
---	---

**MODULE 4 : ABDOMEN AND G I T.**

**[ 20 marks ]**

<ol style="list-style-type: none"> <li>1. Inguinal hernia</li> <li>2. Acute pancreatitis</li> <li>3. Management of intestinal obstruction</li> <li>4. Abdominal tuberculosis</li> <li>5. Anorectal abscess</li> <li>6. Oesophageal disorders</li> <li>7. Gall stones</li> <li>8. Haemorrhoids</li> <li>9. Blunt abdominal trauma</li> <li>10. Retroperitoneal tumours</li> <li>11. Pheochromocytoma.</li> <li>12. Neuro endocrine tumours of stomach</li> </ol>	<ol style="list-style-type: none"> <li>26. Carcinoma rectum and anal canal</li> <li>27. Pancreatic pseudocysts</li> <li>28. Calculous cholecystitis</li> <li>29. Abdominal wall hernias</li> <li>30. Splenic trauma.</li> <li>31. Insulinoma, carcinoma pancreas</li> <li>32. Acute mesenteric ischaemia</li> <li>33. Adreno cortical carcinoma</li> <li>34. Ventral hernias</li> <li>35. Splenomegaly, Hyper splenism, Hemolytic anaemia</li> <li>36. Gastrinoma , Gastric lymphomas</li> </ol>
---	--

<p>n small bowel.</p> <p>13. Intussusception.</p> <p>14. Sigmoid volvulus / Prolapse rectum.</p> <p>15. Perineal hernias.</p> <p>16. Carcinoma colon.</p> <p>17. Mesenteric cyst.</p> <p>18. Femoral and spigelian hernias.</p> <p>19. Chronic calcific pancreatitis</p> <p>20. Empyema gall bladder</p> <p>21. Carcinoma gall bladder / Choledochal cyst</p> <p>22. G I S T</p> <p>23. Epigastric and lumbar hernias</p> <p>24. Fissure in ano</p> <p>25. Pilonidal sinus.</p>	<p>37. Peritonitis,Acute appendicitis</p> <p>38. F A P , Ulcerative colitis</p> <p>39. Liver tumours</p> <p>40. Hiatus hernias,Motility disorders of oesophagus</p> <p>41. Intraperitoneal abscess</p> <p>42. Carcinoma oesophagus</p> <p>43. Haematemesis and Malena</p> <p>44. Liver trauma</p> <p>45. Inflammatory bowel disease</p> <p>46. Tumours of peritoneum</p> <p>47. Acute intestinal obstruction</p> <p>48. Retroperitoneal tumours and conditions</p> <p>49. G E R D ,Gastritis, Helicobacter pylori</p> <p>50. Liver abscess,Hepatitis</p>
---	--

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

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

19. Prostatitis	45. Nephroblastoma
20. Varicocele.	46. Bariatric and metabolic surgery
21. Single incision laparoscopic surgery[SILS]	47. Liver transplantation ,Organ donation
22. Laparoscopic anterior resection	48. Haematuria ,Bladder stones
23. Epididymal cyst	49. Ureterocele,Ectopic kidney,Horseshoe kidney
24. Nephrolithiasis and its management	50. Tuberculosis of urinary tract
25. Phimosis and paraphimosis.	

**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.**