

निजामती कर्मचारी अस्पताल
प्राविधिक सेवा, मेडिसिन समूह, हेपाटोलोजी उपसमूह, सिनियर रजिष्ट्रार पद, नवौं (९) तहको लिखित
परीक्षाको पाठ्यक्रम (करार तर्फ)

पूर्णाङ्क: १००

उत्तीर्णाङ्क: ४०

समय: ४५ मिनेट

बस्तुगत प्रश्नपत्र अंकभार २X५०

1 Course topics

1.1. Basic Sciences:

- a) Embryology of the liver & congenital anomalies.
- b) Metabolic functions of liver
- c) Immune system of the liver and importance in various liver.
- d) Molecular biology in relation to liver
- e) Genetic diseases of liver
- f) Gene Therapy
- g) Liver Tumors & Tumor biology
- h) Liver hormones in health & diseases.
- i) Liver related microbiology, clinical chemistry & haematology.

1.2. Clinical Problems

- a) Liver symptoms: physiology and interpretation
- b) Liver functions
- c) Hepatitis virus serology
- d) Liver in systemic diseases
- e) Cutaneous manifestation of liver disease.
- f) Liver side effects of drugs
- g) HIV and liver

1.3. Nutrition:

- a) Normal nutritional requirement
- b) Nutritional assessment and management
- c) Protein energy malnutrition.
- d) Manifestations and management of nutritional deficiency & excess.
- e) Nutritional support in various liver diseases

1.4. Biliary diseases

- a) Anatomy, Physiology
- b) Physiology of bile formation & excretion
- c) Enterohepatic circulation
- d) Bilirubin metabolism
- e) Approach to the patient with jaundice
- f) Gall stone, its complications & management
- g) Acute calculous cholecystitis
- h) Miscellaneous disorders of the gall bladder

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- i) Acute cholangitis
- j) Benign biliary structures
- k) Benign & malignant neoplasm of the biliary system.
- l) Endoscopic management of biliary obstruction.
- m) Motility & dysmotility of the biliary system & sphincter of oddi dysfunction
- n) Congenital diseases of the biliary system
- o) Sclerosing cholangitis & recurrent pyogenic cholangitis.

1.5. Liver diseases

- a) Anatomy, Physiology, blood supply
- b) Function of liver
- c) Microcirculation of liver
- d) Liver function test
- e) Portal hypertension
 - Extrahepatic portosplenic vein obstruction.
 - Non cirrhotic portal fibrosis
 - Cirrhosis
- f) Acute viral hepatitis
- g) Chronic hepatitis
- h) Alcohol and liver
- i) GI bleeding
- j) Fulminant hepatic failure
- k) Cirrhosis of liver with the emphasis on the spectrum of alcohol related disorder.
- l) Ascites
- m) Hepatic encephalopathy
- n) Hepatorenal syndrome
- o) Autoimmune liver disease
- p) Metabolic liver disease
- q) Liver diseases caused by drugs, anesthetics and toxins
- r) Spontaneous bacterial peritonitis
- s) Primary biliary cirrhosis
- t) Cholangitis
- u) Other hepatobiliary diseases
- v) Hepatic venous outflow tract obstruction
- w) Fibrocystic disease of the liver
- x) Wilson's disease
- y) Hemochromatosis
- z) Nonalcoholic steatohepatitis and focal fatty liver
- aa) Liver abscess, bacterial, parasitic, fungal and granulomatous liver disease.
- bb) Vascular diseases of liver
- cc) Hepatic trauma
- dd) Liver in porphyria, pregnancy & Congestive heart failure.
- ee) Hepatic tumors
- ff) Liver biopsy
- gg) Liver transplantation & artificial liver support

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1.6. Pediatric hepatobiliary diseases

1.7. Hepatobiliary diseases in pregnancy

1.8. Vascular diseases of the liver and biliary tract

1.9. Hepatobiliary radiology:

Reading and interpreting the common x-ray film's including

- X-ray films of the abdomen
- Barium swallow, ultrasound of abdomen.
- Radionuclide scan
- CT scan
- Angiography

1.10. Hepatobiliary Pathology:

Reading & interpreting histological slides of common hepatobiliary diseases.

