

INI CET 2025 Memory Based Question Paper PDF

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**Q1. Which of the following is not a boundary of the hepatocystic triangle?**

- A. Cystic duct
- B. Common hepatic duct
- C. Cystic artery
- D. Inferior border of liver

**Q2. What is the primary action of the muscle originating from this structure?**

- 1. Protracts and depresses the mandible
- 2. Elevates and protrudes the mandible
- 3. Elevates and retracts the mandible
- 4. Elevates the mandible

**Q3. A child presents with fatigue and hepatomegaly. Liver enzymes (ALT, AST) are elevated. Ketosis was significant. Liver biopsy shows excess glycogen accumulation. After feeding, blood glucose levels rise, but there is no rise in glucose after overnight fasting.**

**Which of the following enzyme deficiencies is most likely responsible for this presentation?**

**Options**

- 1. Glucose-6-phosphatase
- 2. Liver phosphorylase
- 3. Muscle phosphorylase
- 4. Phosphofructokinase

**Q4. Cancer cells take up excess glucose because?**

**Options**

- 1. Lactate is produced even in the presence of Oxygen
- 2. High NADH/NAD ratio
- 3. High GLUT2
- 4. Absence of Oxygen

**Q5. What is the minimum age at which a woman can give valid consent for Medical Termination of Pregnancy (MTP) in India?**

**Options:**

1. 18 years
2. 16 years
3. 25 years
4. 20 years

**Q6. As per the MTP (Amendment) Act, 2021, the opinion of two registered medical practitioners is required for termination of pregnancy at which gestational age?**

**Options:**

1. 16-20 weeks
2. 20-24 weeks
3. Up to 12 weeks
4. 12-16 weeks

**Q7. The contraction phase of a single muscle twitch lasts 40 milliseconds. What is the tetanization frequency required to produce a sustained contraction in this muscle?**

1. 10 Hz
2. 20 Hz
3. 25 Hz
4. 40 Hz

**Q8. Tight junctions are primarily located at which part of the cell?**

- a. Apical
- b. Apicolateral
- c. Basal
- d. Basolateral

**Q9. Which of the following is not seen in JNA?**

- A. Recurrent epistaxis
- B. Unilateral nasal obstruction
- C. Exclusively to adolescence boys
- D. Biopsy under anesthesia to diagnose

**Q10. A middle-aged lady choked while eating fish and has associated symptoms of coughing, hoarseness of voice, and a foreign body sensation in the throat. On examination, the pyriform fossa is found to be inflamed. Which of the following nerves supplies this region?**

1. Internal Laryngeal Nerve (ILN)
2. External Laryngeal Nerve (ELN)
3. Glossopharyngeal Nerve
4. Recurrent Laryngeal Nerve

**Q11. Which of the following nerves gives sensory supply to the orbit?**

1. Vagus nerve
2. Trigeminal nerve
3. Hypoglossal nerve
4. Oculomotor nerve

**Q12. Which of the following best defines blindness ?**

- A. Visual acuity less than 6/60 in the better eye
- B. Visual acuity less than 3/60 in the better eye after best possible correction
- C. Visual field less than 10 degrees from fixation in the better eye
- D. Inability to perceive light in both eyes

**Correct answer- Option 2) Visual acuity less than 3/60 in the better eye after best possible correction**

**Q13. In a village of 100 children, 10 children have a past history of measles (i.e, they are not at risk now), 20 new cases of measles were reported this year. What is the incidence of measles in this population for the year?**

**Options**

1. 20%
2. 22.22%
3. 10%
4. 30%

**Q14. Match the following:**

| Vector/agent | Diseases caused                       |
|--------------|---------------------------------------|
| Louse        | Epidemic typhus                       |
| Tick         | b. Rocky Mounted Spotted Fever (RMSF) |
| Mite         | c. Scrub typhus                       |
| Poxvirus     | d. Molluscum contagiosum              |

**Options**

1. 1-A, 2-B, 3-C, 4-D
2. 1-B, 2-A, 3-C, 4-D
3. 1-D, 2-B, 3-C, 4-A
4. 1-C, 2-B, 3-A, 4-D

**Q15. A 65-year-old patient is on mechanical ventilation for acute respiratory distress syndrome (ARDS). Suddenly, the patient becomes hypotensive, tachycardic, and shows absent breath sounds on the left side with tracheal deviation to the right. What is the most common cause of this in patients receiving mechanical ventilation?**

**Options:**

1. High tidal volume
2. Barotrauma due to high airway pressure
3. Endotracheal tube malposition
4. Oxygen toxicity

**Q16. A 40-year-old male presents to the emergency department with severe respiratory distress, BP: 70/59 mmHg, tracheal deviation to the right, distended neck veins, and absent breath sounds on the left side. These findings are suggestive of a tension pneumothorax. What is the most appropriate immediate next step in management?**

**Options:**

1. Perform needle thoracostomy immediately
2. CT Chest
3. Airway, breathing, and circulation (ABC) assessment
4. Chest tube insertion

**Q17. Which of the following is not a recognised cause of recurrent renal stone formation?**

**Options:**

1. Hyperoxaluria
2. Hypercalciuria
3. Hypercitraturia
4. Hyperuricosuria

**Q18. Which of the following is one of the earliest presenting symptoms in a patient with Multiple Sclerosis?**

**Options:**

1. Sensory disturbances
2. Ataxia
3. Vertigo
4. Facial palsy

**Q19. Which of the following is the most common clinical feature observed during the progression of systemic lupus erythematosus (SLE)?**

**Options:**

- A. Photosensitivity
- B. Nephrotic syndrome
- C. Arthralgia & myalgia
- D. Anaemia and thrombocytopenia

**Q20. According to WHO, which of the following is the recommended diagnostic test for spinal tuberculosis?**

**Options:**

1. X-ray
2. CT scan
3. CB-NAAT
4. Culture and Sensitivity

**Q21. A 17-year-old boy presents with a progressively increasing swelling over the tibia along with fever. Radiological examination reveals a Codman triangle and sunburst appearance. What is the most likely diagnosis?**

**Options:**

1. Osteosarcoma
2. Ewing sarcoma
3. Giant cell tumour
4. Chondrosarcoma

**Q22. A 12-year-old child is diagnosed with systemic lupus erythematosus (SLE) and presents with nephrotic-range proteinuria. Renal biopsy reveals "wire loop lesions. Which of the following is the drug of choice in this case?**

1. IV Steroids only
2. IV Steroids + cyclophosphamide
3. Mycophenolate mofetil
4. Cyclophosphamide only

IV Steroids + cyclophosphamide: This is a standard and effective induction regimen for severe lupus nephritis.

**Q23. A 6-week-old infant presents with a history of non-bilious, non-projectile vomiting starting at 3 weeks of age. The infant's abdominal examination is normal. Which of the following is the most likely diagnosis?**

1. Pyloric stenosis
2. Gastroesophageal reflux disease (GERD)
3. Cow Milk Protein Allergy
4. Intestinal obstruction

**Q24. A 3-year-old child is brought to the clinic with a history of cyanosis since infancy. Which of the following is a component of Tetralogy of Fallot (TOF)?**

- a. Inter atrial septal defect
- b. Infundibular pulmonary stenosis
- c. Left ventricular hypertrophy (LVH)
- d. Transposition of the great arteries (TGA)

**Q25. A 65-year-old patient is on mechanical ventilation for acute respiratory distress syndrome (ARDS). Suddenly, the patient becomes hypotensive, tachycardic, and shows absent breath sounds on the left side with tracheal deviation to the right. What is the most common cause of this in patients receiving mechanical ventilation?**

**Options:**

1. High tidal volume
2. Barotrauma due to high airway pressure
3. Endotracheal tube malposition
4. Oxygen toxicity

**Q26. A 40-year-old male presents to the emergency department with severe respiratory distress, BP: 70/59 mmHg, tracheal deviation to the right, distended neck veins, and absent breath sounds on the left side. These findings are suggestive of a tension pneumothorax. What is the most appropriate immediate next step in management?**

**Options:**

1. Perform needle thoracostomy immediately
2. CT Chest
3. Airway, breathing, and circulation (ABC) assessment
4. Chest tube insertion

**Q27. Which of the following is not a recognised cause of recurrent renal stone formation?**

**Options:**

1. Hyperoxaluria
2. Hypercalciuria
3. Hypercitraturia
4. Hyperuricosuria

**Q28. For medical termination of pregnancy (MTP), the opinion of two doctors is required at which gestational age?**

**Options**

1. 20-24 weeks
2. 9-12 weeks
3. 12-16 weeks

4. 16-20 weeks

**Q29. Which of the following is not used in the treatment of postpartum hemorrhage (PPH)?**

**Options**

1. Misoprostol
2. Carboprost
3. Dinoprostone
4. Oxytocin

**Q30. A 50-year-old male patient underwent lower abdominal surgery under general anaesthesia. Vecuronium was administered as a muscle relaxant during the procedure. At the end of the surgery, which of the following is the most appropriate agent to reverse the effects of vecuronium?**

**Options:**

1. Neostigmine
2. Baclofen
3. Atropine
4. Drotaverine

**Q31. Sodium thiopentone is regarded as an ultrashort-acting drug due to (true or false)**

**Options:**

1. Rapid redistribution
2. Metabolism
3. Excretion
4. Short elimination half-life

**Q32. Which of the following are recognized side effects of topical corticosteroid use?**

1. Hypertrichosis
2. Acneiform eruptions
3. Skin atrophy
4. Blue pigmentation of the skin

**Options**

1. a, b, c

2. a, b, d
3. a, c, d
4. b, c, d

**Q33. Out of the following, which statements are correct?**

1. Epidermis can regenerate from hair bulbs and sebaceous glands
2. Stratum corneum is the outermost cellular layer
3. Epidermis originates from the ectoderm
4. Dermis and hypodermis originate from the endoderm

**Options**

1. 1, 2
2. 2, 3
3. 3, 4
4. 1, 3

**Q34. Which of the following psychoactive substances is a new, rapidly acting antidepressant?**

**Options:**

1. Ketamine
2. Bupropion
3. Haloperidol
4. Cannabinoids

**Q35. Imipramine and Diphenhydramine are given together to a patient. Why is this combination considered irrational?**

**Options:**

1. Both have anticholinergic action
2. Both cause serotonin syndrome
3. Both cause hypotension
4. Both cause increased sedation

**Q36. Which investigation is contraindicated in pregnancy?**

1. CT scan
2. MRI
3. Ultrasound
4. Doppler

**Q37. Which of the following is the investigation of choice for spinal TB?**

1. Ultrasound
2. MRI
3. CT scan
4. CBNAAT

**Q38. The Kanagawa phenomenon observed on Wagatsuma agar is characteristic of which of the following organisms?**

**Options**

1. *Vibrio cholerae*
2. *Vibrio parahaemolyticus*
3. *Staphylococcus aureus*
4. *Burkholderia pseudomallei*

**Q39. A male presents with lesions and a history of unprotected sexual intercourse a few months ago. What is the most appropriate investigation to confirm the diagnosis?**

**Options**

1. Serology
2. Tzanck smear
3. KOH
4. Biopsy

**Pathology INI CET May 2025 Question Paper**

**Q40. Which of the following is the most common inherited bleeding disorder?**

**Options**

1. Von Willebrand Disease

2. Disseminated Intravascular Coagulation
3. Factor V Deficiency
4. Hemophilia

**Q41. Which of the following is an incorrect gene-disease association?**

**Options**

1. STK11 - Breast Cancer
2. PTEN - Thyroid Carcinoma
3. TP53 - Mucosal Neuroma
4. BRCA2 - Prostate Carcinoma

**Q42. A patient presents with ascites and omental caking. Imaging reveals solid components in an adnexal mass, and there is a long-standing history of symptoms. CA-125 is positive. What is the most probable diagnosis?**

**Options**

1. Serous ovarian tumor
2. Mucinous ovarian tumor
3. Endometrioid tumor
4. Granulosa cell tumor

**Q43. Which of the following statements regarding Thalidomide is correct?**

1. It acts as an antimetabolite and is useful as an immunosuppressant
2. It is used in the treatment of multiple myeloma
3. It is used in the management of Type 2 lepra reaction (ENL)
4. It is teratogenic

**Options**

1. a, b, c
2. b, c, d
3. a, c, d
4. a, b, d

**Q44. Which of the following statements regarding Bempedoic acid are correct?**

1. It is a non-competitive inhibitor of ATP citrate lyase
2. It is used along with diet and statins for hypercholesterolemia
3. It is a dicarboxylic acid
4. It inhibits cholesterol biosynthesis

**Options**

1. a, b, c
2. b, c, d
3. a, c, d
4. a, b, d

**Q45. According to the Drugs and Cosmetics Rules, match the following medications with their corresponding schedules.**

| Medication          | Schedule      |
|---------------------|---------------|
| Insulin             | A. Schedule H |
| Hepatitis B vaccine | B. Schedule Z |
| Morphine            | C. Schedule G |
| Veterinary drugs    | D. Schedule X |

**Options**

1. 1-C, 2-D, 3-B, 4-A
2. 1-C, 2-A, 3-D, 4-B
3. 1-B, 2-A, 3-D, 4-C
4. 1-D, 2-B, 3-A, 4-C