

## INICET 2022 Memory Based QuestionPaper PDF

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Q1.

Subject: Pathology

Topic: Cell Injury

The phenomenon of a differential effect of the same gene from different parents is called:

- O1: Gonadal mosaicism
- O2: Genomic imprinting
- O3: Anticipation
- O4: Incomplete penetrance

Q2.

Subject: Ophthalmology

Topic: Cornea

Which of the following is not a feature of complicated cataracts?

- O1: Krukenberg spindle
- O2: Polychromatic lustre
- O3: Occurs after uveitis
- O4: Breadcrumb appearance

Q3.

Subject: Pathology

Topic: Endocrinology

Neurosecretory bodies are seen in all except:

- O1: Medullary thyroid carcinoma
- O2: Pituitary adenoma
- O3: Paraganglioma
- O4: Adrenal cortical tumor

Q4.

Subject: PSM

Topic: Environment and Health

While measuring BP, mercury spilled from the sphygmomanometer. What is the correct method of disposal?

- O1: Collect it using a card on paper and put it in a jar
- O2: Sweep it with a broom and throw it outside
- O3: Flush it down the toilet
- O4: Collect it by hand and wash hands afterward

Q5.

Subject: Anatomy

Topic: Lower Limb

A 50-year-old male presents with a positive Trendelenburg test on the right. Which nerve is injured?

- O1: Right inferior gluteal nerve
- O2: Right superior gluteal nerve
- O3: Left superior gluteal nerve
- O4: Left inferior gluteal nerve

Q6.

Subject: ENT

Topic: Ear

What is the grade of tympanic membrane retraction shown in the image?



O1: Grade 1

O2: Grade 2

O3: Grade 3

O4: Grade 4

Q7.

Subject: Surgery

Topic: Endocrine Surgery

A female patient presents with a lump in her breast. All the following can be used to rule out malignancy, except:

O1: Radiological investigations

O2: PET scan

O3: Clinical examination

O4: Histology and cytology

Q8.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Antepartum hemorrhage due to abruption shows all except:

O1: Uterine tenderness

O2: Frequent contractions

O3: Painless vaginal bleeding

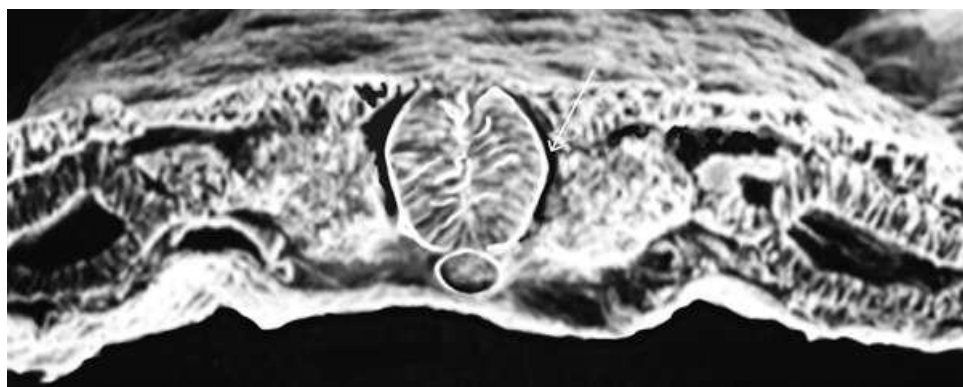
O4: Mild to moderate vaginal bleeding

Q9.

Subject: Anatomy

Topic: General Embryology

What are the derivatives of the marked cells?



1. Odontoblasts
2. Sympathetic chain
3. Melanocytes
4. Nephrogenic cord
5. Bulbus cordis
6. Conotruncal septum

O1: 1, 3, 5, 6

O2: 2, 3, 4, 6

O3: 1, 2, 3, 6

O4: 1, 2, 3, 4

Q10.

Subject: Radiology

Topic: Thoracic Radiology

Egg shell calcification is seen in all the following except:

O1: Silicosis

O2: Sarcoidosis

O3: Post-radiation therapy lymph nodes

O4: Metastatic lymph nodes

Q11.

Subject: Medicine

Topic: Neurology

The following clinical examination was performed. What lesion would cause an exaggerated reflex?

\*(Image: Clinician testing the patellar reflex with a hammer)\*

- O1: Polyneuropathy
- O2: Radiculopathy
- O3: Upper motor neuron
- O4: Lower motor neuron

Q12.

Subject: Biochemistry

Topic: Lipid Metabolism

Zellweger syndrome is due to a defect in the biogenesis of:

- O1: Peroxisomes
- O2: Lysosomes
- O3: Mitochondria
- O4: Nucleus

Q13.

Subject: Medicine

Topic: Pulmonology

A 65-year-old female on mechanical ventilation for ARDS has  $\text{PaO}_2 = 50$  mmHg despite  $\text{FiO}_2$  of 90%. What is the next step?

- O1: Reduce  $\text{FiO}_2$
- O2: Increase tidal volume
- O3: Increase respiratory rate
- O4: Increase PEEP

Q14.

Subject: PSM

Topic: Concept of Health and Disease

Match the following stages with their relevant descriptions:

1. Pre-pathogenesis

2. Pathogenesis
  3. Natural history of a disease
  4. Rehabilitation
- 
- a. Normal course without intervention
  - b. Appearance of clinical signs and symptoms
  - c. Reaching normalcy with community help
  - d. Period before onset of disease

O1: 1-c, 2-d, 3-a, 4-d

O2: 1-d, 2-b, 3-a, 4-c

O3: 1-b, 2-d, 3-c, 4-d

O4: 1-a, 2-c, 3-d, 4-b

Q15.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

A woman presents at 8 weeks of gestation. Which of the following signs can be elicited at this gestation?

1. Goodell's sign
2. Oslander's sign
3. Internal ballotement
4. Lightening

O1: 1,3

O2: 1,2

O3: 1,4

O4: 3,4

Q16.

Subject: Forensic Medicine

Topic: Traces of Evidence

Sagar was being tried in court for the murder of Mohan in the park. Shikhar appeared in court and said he saw Sagar carrying a knife in his hand while in the park. What is this evidence known as?

- O1: Direct
- O2: Indirect
- O3: Hostile
- O4: Hearsay

Q17.

Subject: Medicine

Topic: Pulmonology

An increased anion gap is seen in:

- O1: Respiratory acidosis
- O2: Respiratory alkalosis
- O3: Metabolic acidosis
- O4: Metabolic alkalosis

Q18.

Subject: Radiology

Topic: Gastrointestinal Radiology

Match the following:

- 1. Football sign
- 2. String sign
- 3. Rat tail sign
- 4. Inverted umbrella sign

- A. Hypertrophic pyloric stenosis
- B. Achalasia cardia
- C. Ileocecal TB
- D. Pneumoperitoneum

O1: 1-b, 2-d, 3-a, 4-c

O2: 1-c, 2-a, 3-b, 4-d

O3: 1-d, 2-b, 3-a, 4-c

O4: 1-d, 2-a, 3-b, 4-c

Q19.

Subject: Pharmacology

Topic: General Pharmacology

Match the teratogenic drug with its effect:

1. Lithium
2. Chloramphenicol
3. Warfarin
4. Thalidomide

- A. Phocomelia
- B. Depressed nasal bridge
- C. Gray baby syndrome
- D. Ebstein anomaly

O1: 1-a, 2-b, 3-c, 4-d

O2: 1-d, 2-c, 3-b, 4-a

O3: 1-d, 2-a, 3-d, 4-c

O4: 1-c, 2-d, 3-a, 4-b

Q20.

Subject: Pediatrics

Topic: Pediatric Hematology and Oncology

A child with thalassemia is undergoing multiple blood transfusions. What is the best method to detect iron overload?

O1: Liver iron concentration

O2: MRI T2 myocardium



O3: Serum ferritin

O4: NTBI

Q21.

Subject: Pharmacology

Topic: Anticancer Drugs

Which of the following is not an immune checkpoint inhibitor?

O1: Nivolumab

O2: Pembrolizumab

O3: Atezolizumab

O4: Cetuximab

Q22.

Subject: Surgery

Topic: Plastic Surgery

Identify the true statement regarding split skin and full-thickness skin grafts:

1. Primary contractures are more in split skin grafts
2. Secondary contractures are more in split skin grafts
3. Primary contractures are more in full-thickness grafts
4. Secondary contracture is more in full-thickness grafts

O1: 2, 3

O2: 2, 4

O3: 1, 3

O4: 1, 4

Q23.

Subject: Surgery

Topic: Gastrointestinal Surgery

A 10-year-old child with hereditary spherocytosis and hypersplenism is planned for splenectomy. All the following vaccines are recommended before splenectomy except:

O1: Pneumococcal vaccine

O2: Typhoid vaccine

O3: Haemophilus influenzae B vaccine

O4: Meningococcal vaccine

Q24.

Subject: Physiology

Topic: Nerve-Muscle Physiology

Arrange the following steps of ventricular action potential in the correct order:

A. Opening of voltage-gated calcium channels

B. Repolarizing K<sup>+</sup> currents

C. Opening of voltage-gated sodium channels

D. Transient outward flow of potassium

O1: B, A, C, D

O2: D, C, B, A

O3: C, D, A, B

O4: A, B, C, D

Q25.

Subject: Anaesthesia

Topic: Regional Anesthesia

Which of the following local anesthetics causes hypertension?

O1: Cocaine

O2: Lignocaine

O3: Bupivacaine

O4: Prilocaine

Q26.

Subject: Surgery

Topic: Gastrointestinal Surgery

A patient who had undergone appendectomy 2 days ago presents with severe abdominal pain. On exploration, there is a collection of blood in the abdomen. Which of the following arteries should have been ligated during surgery?

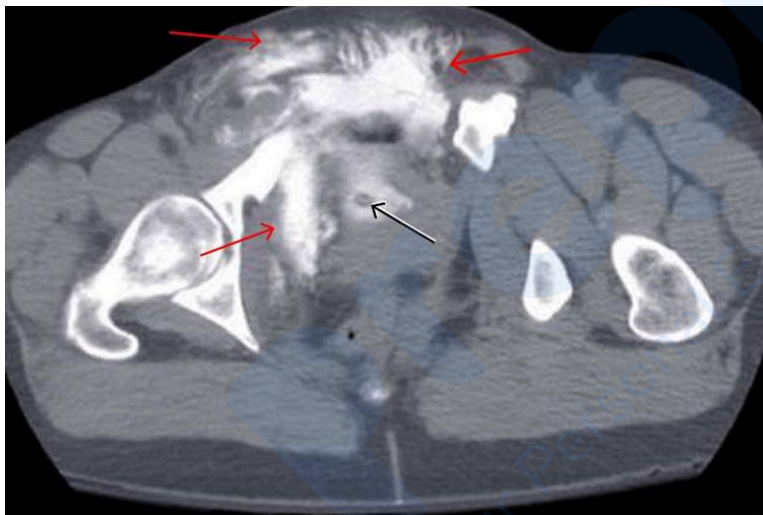
- O1: Ileocolic artery
- O2: Right colic artery
- O3: Superior rectal artery
- O4: Superior mesenteric artery

Q27.

Subject: Surgery

Topic: Trauma Surgery

A 30-year-old male presents with a pelvic fracture after blunt trauma. No blood is seen at the meatus. Catheterization does not produce urine. What is the next step in management?



- O1: Suprapubic cystostomy
- O2: Per urethral catheterization
- O3: Laparotomy
- O4: Pelvic packing + bilateral percutaneous nephrostomy

Q28.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Consider the following steps in AMTSL. Arrange them correctly:

1. Uterine massage

2. Give uterotonic (oxytocin 10 mg)
3. Exclude presence of another fetus
4. Controlled cord traction

O1: 3, 1, 2, 4

O2: 3, 2, 4, 1

O3: 2, 4, 3, 1

O4: 2, 4, 1, 3

Q29.

Subject: Pathology

Topic: Renal System

Identify the true statement(s) about clear cell carcinoma of the kidney:

1. Most common sporadic renal tumour
2. Associated with loss of long arm of chromosome 3
3. Arises from distal convoluted tubule
4. Cells show intracellular accumulation of glycogen and fat

O1: 1, 2, 4

O2: 2, 3

O3: 1, 3

O4: 1, 4

Q30.

Subject: Biochemistry

Topic: Vitamins

An elderly vegetarian patient presents with fatigue and pallor. Labs show macrocytic anemia, high homocysteine, normal methylmalonic acid. What's the cause?

- O1: Folate deficiency
- O2: Alcohol-induced macrocytosis
- O3: Vitamin B12 deficiency

O4: Thiamine deficiency

Q31.

Subject: Surgery

Topic: Gastrointestinal Surgery

Which of the following would be the most commonly encountered ectopic tissue in Meckel's diverticulum?

O1: Gastric and pancreatic

O2: Colonic and pancreatic

O3: Gastric and colonic

O4: Thyroid and lung

Q32.

Subject: Psychiatry

Topic: Substance-Related and Addictive Disorders

A chronic alcoholic presents with seizures, altered sensorium, and hallucinations. What will you use for management?

1. Diazepam

2. Thiamine

3. Naltrexone

4. Flupenthixol depot injection

O1: 1, 4

O2: 1, 2, 4

O3: 1, 3, 4

O4: 1, 2

Q33.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

All of the following are theories of causation of preeclampsia except:

O1: Prostaglandins play an important role. Thromboxane A2 decreases; Prostacyclin:Thromboxane ratio increases in preeclampsia

O2: Endothelial cell dysfunction leads to reduced nitric oxide levels causing the clinical presentation of preeclampsia

O3: Vasoconstriction leads to ischemia, necrosis and hemorrhage and end-organ damage

O4: Anti-angiogenic factors play a role — increased sFlt-1, decreased PlGF

Q34.

Subject: Surgery

Topic: Clinical Essentials

A patient develops sensory loss over the root of the penis after hernia surgery. Which nerve is involved?

O1: Iliohypogastric nerve

O2: Ilioinguinal nerve

O3: Genitofemoral nerve

O4: Medial cutaneous nerve of thigh

Q35.

Subject: Pediatrics

Topic: Pediatric Respiratory Disorders

A child presents with acute exacerbation of asthma. What would you do?

1. Chest X-ray

2. Oxygen

3. Salbutamol nebulization x3 in 60 minutes

4. Oral corticosteroids

O1: 3, 4

O2: 1, 4

O3: 1, 3, 4

O4: 2, 3, 4

Q36.

Subject: Pathology

Topic: Respiratory System

A chronic smoker with a smoking history of 24 packs presents with breathlessness and chest pain. Further investigations revealed the presence of a lung tumor. On staining, cells are positive for chromogranin. What is the diagnosis?

O1: Adenocarcinoma

O2: Squamous cell carcinoma

O3: Large cell carcinoma

O4: Small cell carcinoma

Q37.

Subject: Pharmacology

Topic: Autacoids

Urinary alkalization will be most useful in toxicity of which of the following drugs?

O1: Beta-blockers

O2: Calcium channel blockers

O3: Acetaminophen

O4: Aspirin

Q38.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

A 25-year-old lady had an uneventful vaginal delivery. On postpartum day 1, she presented with postpartum hemorrhage and complains of visual changes and severe headache. A few hours later, she becomes unresponsive. BP is 60/40 mmHg, blood sugar is 48 mg/dL. Which of the following drugs would help reverse this state?

O1: Inj. Dobutamine

O2: Steroids

O3: Thyroxine

O4: Activated protein C

Q39.

Subject: Psychiatry

Topic: Mood Disorders

A pregnant mother was on SSRIs. The risk of which of the following is increased in the newborn?

1. Low APGAR score
2. ADHD
3. Persistent pulmonary hypertension
4. Delayed developmental milestones

O1: A, C

O2: A, B, C, D

O3: B, C, D

O4: A, B, C

Q40.

Subject: PSM

Topic: Concept of Health and Disease

Ram (5 years) and Sham (3 years) are brothers. Sham developed a rash, which was ignored. Ten days later, Ram developed rash and fever and was diagnosed with measles. Choose all correct statements:

1. Ram is the index case
2. Sham is the primary case
3. Ram got the infection from Sham
4. Ram could've received prophylaxis if brought earlier

O1: 1, 2, 3 and 4 are correct

O2: 1 only is correct

O3: 1 and 4 are correct

O4: 1 and 3 are correct

Q41.

Subject: Anatomy



Topic: Lower Limb

Superior gluteal nerve supplies all of the following structures except:

- O1: Gluteus medius
- O2: Gluteus minimus
- O3: Piriformis
- O4: Tensor fasciae latae

Q42.

Subject: Physiology

Topic: Cardiovascular System

How is cerebral perfusion pressure calculated?

- O1: Systolic blood pressure + Intracranial pressure
- O2: Systolic blood pressure – intracranial pressure
- O3: Mean arterial pressure / Intracranial pressure
- O4: Mean arterial pressure – intracranial pressure

Q43.

Subject: Medicine

Topic: Endocrinology

Which of the following is the most characteristic feature of Kallmann syndrome?

- O1: Anosmia
- O2: Syndactyly in males
- O3: Precocious puberty in females
- O4: White forelock

Q44.

Subject: Pathology

Topic: Immunity

Which of the following is not a part of innate immunity?

- O1: Alpha defensins
- O2: B lymphocytes

O3: Gamma Delta T lymphocytes

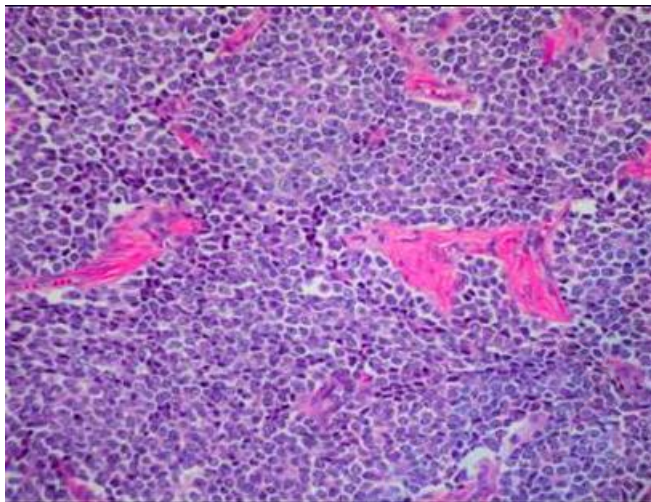
O4: Lectin pathway

Q45.

Subject: Pathology

Topic: Bone Disorders

A 15-year-old boy presents with swelling in the upper diaphyseal part of the tibia. X-ray shows periosteal reaction. Histopathology is positive for synaptophysin and MIC2. What is the likely diagnosis?



O1: Osteosarcoma

O2: Ewing sarcoma

O3: Metastatic neuroblastoma

O4: Osteoclastoma

Q46.

Subject: Pathology

Topic: Cell Injury

Match the following stains and the tissue:

1. Prussian blue stain

2. PAS stain

3. Congo red stain

4. File-Faraco stain

- A. Iron
- B. Glycogen
- C. Leprosy
- D. Amyloid

O1: 1-D, 2-C, 3-B, 4-A

O2: 1-C, 2-A, 3-D, 4-D

O3: 1-A, 2-B, 3-D, 4-C

O4: 1-B, 2-A, 3-C, 4-D

Q47.

Subject: PSM

Topic: Screening of Diseases

A point-of-care diagnostic test with a sensitivity of 98% shows a negative test result in a patient. What does this imply?

- O1: The patient would need another point-of-care diagnostic test for the same clinical condition
- O2: The prevalence of the disease is 2%
- O3: The patient is less likely to have the disease
- O4: The patient has been wrongly ruled out due to false negatives

Q48.

Subject: Ophthalmology

Topic: Optics

A patient has presented for a routine eye evaluation. You have checked his visual acuity using Snellen's chart and found it to be 6/6. What is the minimum angle of resolution?

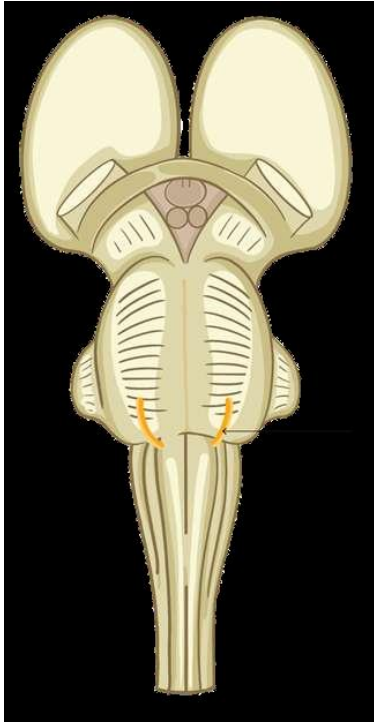
- O1: 15 minutes of arc
- O2: 5 minutes of arc
- O3: 10 minutes of arc
- O4: 20 minutes of arc

Q49.

Subject: Anatomy

Topic: Neuro Anatomy

Identify the cranial nerve that arises from the marked part.



O1: Oculomotor nerve

O2: Glossopharyngeal nerve

O3: Abducens nerve

O4: Facial nerve

Q50.

Subject: Physiology

Topic: Nerve-Muscle Physiology

Myosin ceases to be in contact with actin filaments as a result of:

O1: Attachment of ATP to the myosin head

O2: Cessation of calcium release from the sarcoplasm

O3: Conformational change in Troponin T

O4: Dissociation of ADP and Pi

Q51.

Subject: Gynaecology & Obstetrics

Topic: Gynecology

All are long-term reversible methods of contraception, except:

O1: Progestin injection

O2: Progestin implants

O3: Female sterilization

O4: Levonorgestrel-releasing and copper-containing intrauterine devices

Q52.

Subject: Medicine

Topic: Neurology

Which of the following does not help in the localisation of lesions in the spinal cord?

O1: Contralateral hemiplegia

O2: Fasciculation at the level of lesion

O3: Upper motor neuron lesion and lower motor neuron lesion

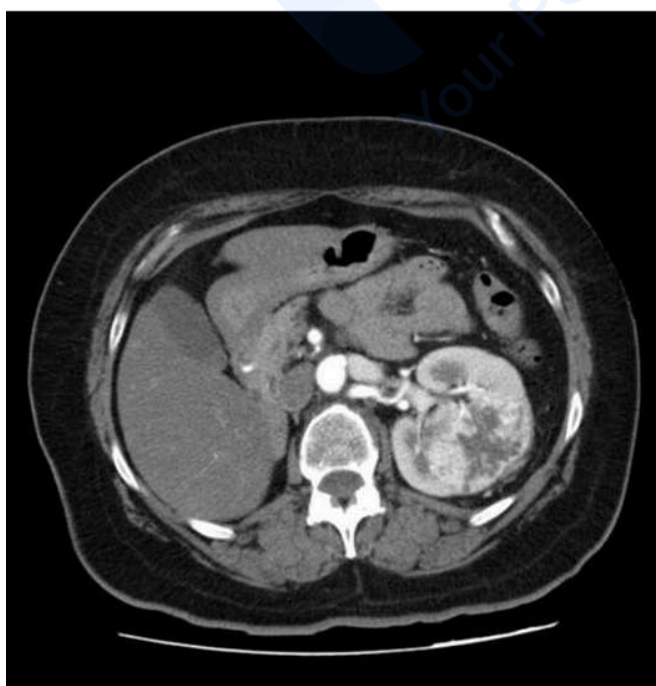
O4: Bladder involvement

Q53.

Subject: Radiology

Topic: Genitourinary Radiology

A 55-year-old man presents with hematuria and a mass in the left kidney on a CECT scan, as shown below. What is the diagnosis?



O1: Renal angiomyolipoma

O2: Renal oncocytoma

O3: Renal cell carcinoma

O4: Renal cyst

Q54.

Subject: PSM

Topic: National Health Programs

Which of the following statements regarding drugs used in anti-tubercular treatment are true?

1. Isoniazid inhibits mycolic acid synthesis
2. Pyrazinamide is an enzyme inducer
3. Rifampicin is used only in the treatment of tuberculosis
4. Bedaquiline inhibits ATP synthase

O1: A, B, C, D

O2: B, C

O3: A, C

O4: A, D

Q55.

Subject: Ophthalmology

Topic: Neuro Ophthalmology

Which of the following statements is true about optic neuritis?

- O1: The relative afferent pupillary defect is seen
- O2: There is no pain in ocular movement
- O3: Multiple myeloma is a common cause
- O4: Oral corticosteroids are the mainstay of treatment

Q56.

Subject: Microbiology

Topic: General Microbiology

What is the microscopy technique to produce high contrast image of transparent, live bacteria?

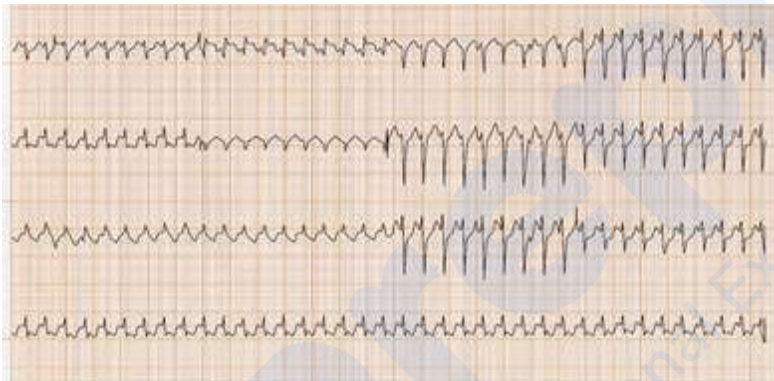
- O1: Phase contrast microscopy
- O2: Dark field microscopy
- O3: Electron microscopy
- O4: Polarized microscopy

Q57.

Subject: Medicine

Topic: Cardiology

A female patient presents to the hospital with palpitations. Her vitals are stable and the ECG shows the following. Which of the following is used as first-line management to treat the condition?



- O1: Amiodarone
- O2: Adenosine
- O3: DC cardioversion
- O4: Primary PCI

Q58.

Subject: Pediatrics

Topic: Pediatric Respiratory Disorders

A child is brought to the casualty with a history of choking. On examination, there is decreased air entry in the left lung. What would be the correct management?

- 1. Bronchoscopy
- 2. Computed tomography scan

3. ICD insertion
4. Chest X-ray

O1: 1, 2, and 4

O2: 1 and 2

O3: 3 and 4

O4: 1 and 4

Q59.

Subject: Physiology

Topic: Respiratory System

2,3-BPG causes the unloading of oxygen to tissues by:

O1: Increasing ATP production

O2: Binding to the beta subunit of Hb

O3: Inhibiting taut structure

O4: Decreasing ATP production

Q60.

Subject: Microbiology

Topic: Immunology

Vaccination against which of the following is recommended in the elderly?

1. Varicella zoster virus
2. Rotavirus
3. Measles
4. Pneumococcal meningitis

O1: 1,2,3,4

O2: 1,3

O3: 1,4

O4: 2,3



Q61.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

What is vagitus uterinus?

O1: Cry of baby in the womb

O2: Infection of vagina

O3: Infection of uterus

O4: Infection of both vagina and uterus

Q62.

Subject: Forensic Medicine

Topic: Forensic Toxicology

A male patient was presented with a history of consumption of an unknown substance. He had increased sweating, lacrimation, diarrhea, muscle weakness, and tachycardia. What's the management?

O1: Atropine

O2: Calcium gluconate

O3: Pralidoxime

O4: Obidoxime

Q63.

Subject: PSM

Topic: Family Planning and Contraceptives

Contraceptive failure is assessed using which of the following methods?

O1: Pharmacological index

O2: Pearl index

O3: Performance index

O4: Efficacy index

Q64.

Subject: Physiology

Topic: Gastrointestinal System

Transport of iron into enterocytes is done by which of the following proteins:

- O1: Transferrin
- O2: Ferroportin
- O3: Heparin
- O4: Divalent metal transporter – 1

Q65.

Subject: Pathology

Topic: Neoplasia

Match the malignancies in column A with the genes in column B.

Column A:

- 1. Pleomorphic adenoma
- 2. Burkitt lymphoma
- 3. Neuroblastoma
- 4. Retinoblastoma

Column B:

- A. Rb
- B. nMyc
- C. cMyc
- D. PLAG1

O1: 1-c, 2-b, 3-d, 4-a

O2: 1-b, 2-c, 3-d, 4-a

O3: 1-d, 2-c, 3-b, 4-a

O4: 1-b, 2-d, 3-c, 4-a

Q66.

Subject: Genetics

Which of the following disorders is inherited in an X-linked dominant pattern?

- O1: Rett syndromes

O2: Duchenne muscular dystrophy

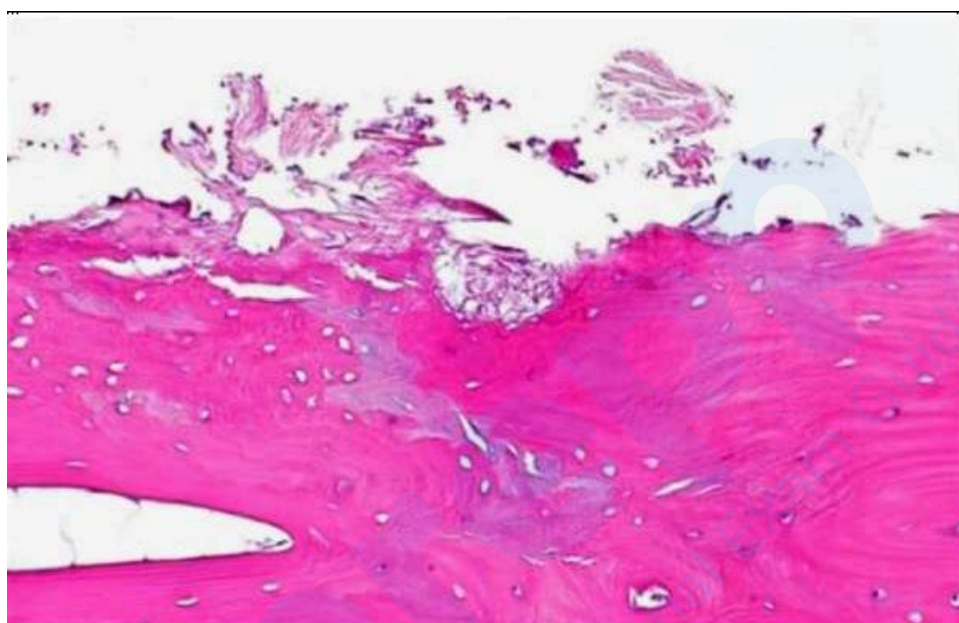
O3: Huntington's disease

O4: Tuberous sclerosis

Q67.

Subject: Orthopaedics

A 72-year-old man came with complaints of unilateral knee pain. X-ray examination showed reduced joint space. Pathological findings shown below are of:



O1: Osteoarthritis

O2: Tuberculosis of the knee

O3: Rheumatoid arthritis

O4: Lyme disease

Q68.

Subject: Neurology

Which of the following is not a feature of Brown Sequard syndrome?

O1: Complete transection of spinal cord

O2: Ipsilateral loss of vibration & touch

O3: Contralateral loss of pain & temperature

O4: Ipsilateral loss of proprioception

Q69.

Subject: Medicine

A patient was treated for peptic ulcer with an H. pylori regimen. Which of the following is used to assess the success of treatment?

O1: Endoscopy

O2: IgG antibody study

O3: Urea breath test

O4: Urease test of biopsy

Q70.

Subject: Anaesthesia

Topic: Oxygen Therapy and Airway

Identify the incorrect statement in rapid sequence intubation.

O1: Preoxygenation with 100% oxygen for 3 min is done

O2: High – volume, low-pressure cuff is used

O3: It is the method of choice in cardiac arrest patient

O4: The induction agent and muscle relaxant are given simultaneously

Q71.

Subject: Ophthalmology

Topic: Glaucoma

In which of the following is atropine contraindicated?

O1: Acute congestive glaucoma

O2: Acute anterior uveitis

O3: Malignant glaucoma

O4: Corneal ulcer

Q72.

Subject: Ophthalmology

Topic: Community Ophthalmology

What is the most common cause of moderate–severe visual impairment according to the National Blindness and Visual Impairment Survey 2015–19?

O1: Refractive error

O2: Untreated cataract

O3: Glaucoma

O4: Diabetic retinopathy

Q73.

Subject: Pathology

Which of the following features is not observed in pleomorphic adenoma?

O1: Myoepithelial cells

O2: Keratin pearls

O3: Chondroid differentiation

O4: Perineural invasion

Q74.

Subject: Surgery

Topic: Gastrointestinal Surgery

Which investigation is not necessary for the following condition?



- O1: Timed barium study
- O2: Endoscopy
- O3: Esophageal manometry
- O4: 24-h pH monitoring

Q75.

Subject: Pediatrics

Topic: Pediatric Nephrology

A 4-year-old male child with a body weight of 15 kg and height of 100 cm is admitted with renal failure. His blood urea was 100 mg/dL, and serum creatinine was 1 mg/dL. What is the closest calculated eGFR in the patient?

- O1: 33 ml/min/1.73 m<sup>2</sup> BSA
- O2: 40 ml/min/1.73 m<sup>2</sup> BSA
- O3: 55 ml/min/1.73 m<sup>2</sup> BSA
- O4: 80 ml/min/1.73 m<sup>2</sup> BSA

Q76.

Subject: Surgery

Topic: Neurosurgery

A 34-year-old woman was brought to the AIIMS emergency following a road traffic accident. She was hemodynamically stable and her GCS score was 3. She was intubated and sent for non-contrast CT which was found to be normal. What is the most likely diagnosis?

- O1: Subdural hemorrhage
- O2: Extradural hemorrhage
- O3: Diffuse axonal injury
- O4: Cerebral contusion

Q77.

Subject: Gynaecology & Obstetrics

Topic: Gynecology

The non-contraceptive uses of oral contraceptives include all of the following except:

- O1: Reduction in the risk of ovarian cancer

O2: Ectopic pregnancy

O3: Protection against sexually transmitted diseases, including HIV

O4: Reduction in the risk of endometrial cancer

Q78.

Subject: Microbiology

Topic: General Microbiology

Which agents can be used as a disinfectant but not a sanitizer?

O1: Hydrogen peroxide

O2: Penicillin

O3: Methyl paraben

O4: Bleaching powder

Q79.

Subject: Statistics

What is the branch of statistics dealing with describing the internal collection of data?

O1: Theoretical statistics

O2: Descriptive statistics

O3: Analytical statistics

O4: Inferential statistics

Q80.

Subject: Pediatrics

Topic: Genetics and Genetic Disorders

Choose the most appropriate answer:

Assertion: In phenylketonuria, the urine has a mousy odor.

Reason: The serum levels of tyrosine, dopamine, and norepinephrine decrease in phenylketonuria.

O1: Both assertion and reason are independently false statements.

O2: The assertion is a true statement, but the reason is a false statement.

O3: Both assertion and reason are independently true statements, but the reason is not the correct explanation for the assertion.

O4: Both assertion and reason are independently true statements, and the reason is the correct explanation for the assertion.

Q81.

Subject: Physiology

Topic: Excretory System

Macula densa is made of specialized cells located at:

O1: Junction of thick descending limb and DCT

O2: Junction of thick descending limb and PCT

O3: Junction of thick ascending limb and DCT

O4: Junction of DCT and collecting duct

Q82.

Subject: Medicine

Topic: Nephrology / Kidney Disease

An elderly female patient with a history of severe vomiting was treated aggressively for severe dehydration at an outside hospital. One week later, she became mute, quadriplegic, and rigid. What is the most likely reason?

O1: Malignant hyperthermia

O2: Severe catatonia

O3: Rapid sodium correction

O4: Neuroleptic malignant syndrome

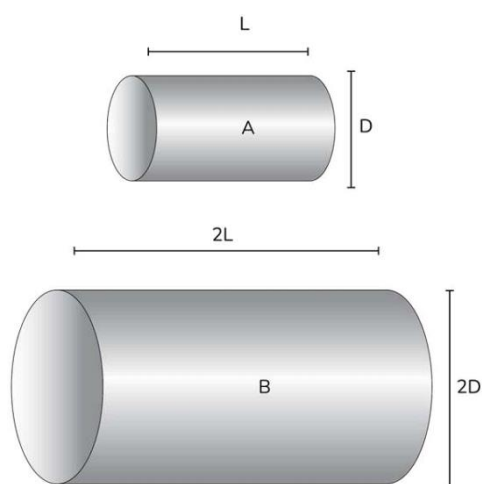
Q83.

Subject: Physiology

Topic: General Physiology

Vessel A has a length of  $L$  and a diameter of  $D$ , and vessel B has  $2L$  and  $2D$ . Considering the flow is laminar through both cylinders, the flow through B is how many times as much as the flow through A?





O1: 4 times

O2: 8 times

O3: 16 times

O4: 32 times

Q84.

Subject: Biochemistry

Topic: Molecular Biology

Which of the following are true regarding sirtuins?

1. Increases insulin sensitivity and thus glucose metabolism
2. Promotes genes that increase longevity
3. They are of 7 types
4. They are one of the types of histone deacetylases

O1: 1,2,3

O2: 1,2,3,4

O3: 2,3

O4: 2,4

Q85.

Subject: Biochemistry

Topic: Lipid Metabolism

Refsum disease is due to:

- O1: Absence of alpha oxidation in peroxisomes
- O2: Absence of beta-oxidation in peroxisomes
- O3: Absence of alpha oxidation in lysosomes
- O4: Absence of beta-oxidation in lysosomes

Q86.

Subject: Medicine

A female patient presents to the AIIMS emergency department with severe fatigue and prostration. She is a known case of chronic stable angina. While collecting a blood sample, you notice the blood has a brownish hue. What is the underlying diagnosis?

- O1: Carboxy-hemoglobinemia
- O2: Sideroblastic anaemia
- O3: Methemoglobinemia
- O4: Sulfhemoglobinemia

Q87.

Subject: Pathology

Topic: Hematology: Red Blood Cells

All of the following are seen in anemia of chronic disease except:

- O1: High serum hepcidin
- O2: Low serum ferritin
- O3: Chronic infection
- O4: Normal iron stores

Q88.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Which of the following statements regarding MgSO<sub>4</sub> is false?

- O1: MgSO<sub>4</sub> causes uterine relaxation, but is dose dependent
- O2: MgSO<sub>4</sub> is continued up to 24 hours after delivery or last attack of seizure
- O3: It has an inhibitory effect on cerebral cortex thereby preventing seizures and lowering the BP

O4: In renal failure,  $\text{MgSO}_4$  loading dose can be given, but maintenance dose should be adjusted based on renal function

Q89.

Subject: Psychiatry

Topic: Child Psychiatry

Which of the following diseases is exclusively seen in females?

O1: Rett syndrome

O2: Asperger syndrome

O3: Selective mutism

O4: Atypical autism

Q90.

Subject: Medicine

Topic: Cardiology

A patient with heart disease has breathlessness on going to the bathroom. What grade does he belong to?

O1: NYHA 3

O2: NYHA 4

O3: MMRC 4

O4: MMRC 5

Q91.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Which of the following cerclage procedures would be done in a nonpregnant female?

O1: Lash and Lash cerclage

O2: Benson and Durfee cerclage

O3: Wurms cerclages

O4: Laparoscopic cerclage

Q92.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Urinary tract infection in a pregnant lady in her 2nd trimester is best defined as:

- O1: Growth of  $10^3$  coliform in suprapubic sample
- O2: Growth of  $10^5$  coliform in voided urine sample
- O3: Frequency with dysuria with  $>3$  WBC/HPF
- O4: Frequency with dysuria with positive nitrite and leukoesterase dipstick test

Q93.

Subject: Medicine

Which of the following electrolyte abnormalities is seen in methanol intoxication?

- O1: Metabolic alkalosis with high anion gap
- O2: Metabolic acidosis with high anion gap
- O3: Metabolic acidosis with normal anion gap
- O4: Metabolic alkalosis with normal anion gap

Q94.

Subject: Medicine

Topic: Infectious Diseases

A patient presents with cough, cold, fever and malaise associated with weight loss and ascites. A radiograph of the chest is shown below. Ascitic fluid analysis showed elevated adenosine deaminase. Which of the following is the next step in management?



- O1: Biopsy
- O2: Start ATT after laparotomy stricture removal
- O3: Start anti-tubercular therapy
- O4: Conservative management

Q95.

Subject: Ophthalmology

Topic: Uveitis

The most common ocular manifestation of COVID-19 is:

- O1: Uveitis
- O2: Mucormycosis
- O3: Follicular conjunctivitis
- O4: Papillary conjunctivitis

Q96.

Subject: Forensic Medicine

Topic: Forensic Toxicology

Which of the following are seen in patients with chronic arsenic poisoning?

- 1. Raindrop pigmentation
- 2. Peripheral neuritis
- 3. Mees line
- 4. Luminous vomit

O1: 1,2,3 are correct

O2: 2,3 are correct

O3: 1,4 are correct

O4: Only 1 is correct

Q97.

Subject: Dermatology

Topic: Connective Tissue Disorders

A 10-year-old boy has weakness in his lower limbs and a rash over the eyelids. The biopsy shows inflammation of the muscle. What is the finding shown in the image below?



O1: Gottron's papules

O2: Shawl sign

O3: Heliotrope rash

O4: Scleroderma

Q98.

Subject: Physiology

Topic: Gastrointestinal System

The second phase of saliva secretion involves:

O1: Active  $\text{Na}^+$  reabsorption, passive  $\text{Cl}^-$  reabsorption, passive  $\text{K}^+$  secretion, active secretion of  $\text{HCO}_3^-$

O2: Passive  $\text{Na}^+$  reabsorption, active  $\text{Cl}^-$  reabsorption, passive  $\text{K}^+$  secretion, active secretion of  $\text{HCO}_3^-$

O3: Passive  $\text{Na}^+$  secretion, active  $\text{Cl}^-$  reabsorption, active  $\text{K}^+$  secretion, passive secretion of  $\text{HCO}_3^-$

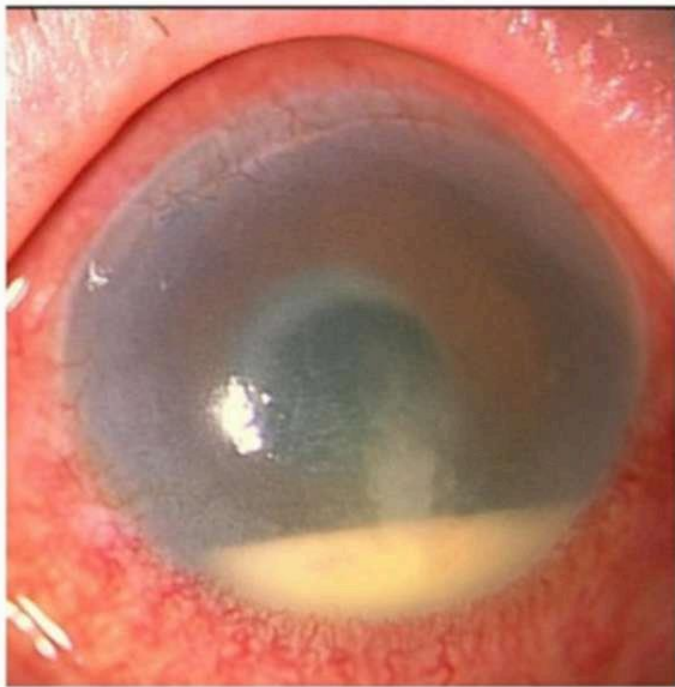
O4: Active  $\text{Na}^+$  reabsorption, passive  $\text{Cl}^-$  reabsorption, active  $\text{K}^+$  secretion, passive secretion of  $\text{HCO}_3^-$

Q99.

Subject: Ophthalmology

Topic: Cornea

A farmer presents with pain and discharge in his left eye. He says that he sustained an injury caused by a leaf a few days back. What is the finding seen in the image?



O1: Hyphema

O2: Aqueous flare

O3: Arlt line

O4: Hypopyon

Q100.

Subject: Radiology

Topic: Gastrointestinal Radiology

An elderly lady presents with abdominal pain and distension. She has a history of scoliosis. Given below is the erect X-ray abdomen radiograph of the lady. What is the most likely diagnosis?



- O1: Large bowel obstruction due to sigmoid volvulus
- O2: Large bowel obstruction due to fecolith
- O3: Cecal volvulus
- O4: Small bowel obstruction due to bowel perforation

Q101.

Subject: Orthopaedics

Topic: Pediatric Orthopedics

You visit a newborn near your house and notice that the baby has CTEV, as shown below. When would you advise the baby's parents for a consultation to put on a cast?



- O1: 1 month
- O2: In 6 months
- O3: In a few days
- O4: When the child starts walking

Q102.

Subject: PSM

Topic: Communicable and Non-communicable Diseases

The drug shown in the image below is administered for:





O1: Malaria

O2: Dengue

O3: Sexually transmitted infections

O4: AIDS

Q103.

Subject: Anatomy

Topic: Head and Neck

Which skull foramen is formed by 3 bones?

O1: Foramen lacerum

O2: Foramen magnum

O3: Foramen rotundum

O4: Foramen jugulare

Q104.

Subject: Anatomy

Topic: Head and Neck

Which is not a branch of the facial artery in the face?

O1: Lateral nasal

O2: Mental

O3: Superior labial

O4: Inferior labial

Q105.

Subject: Histology

Match the following cells with their locations:

1. Kupffer cells

2. Parietal cells

3. Dust cells

4. Clara cells

A. Stomach

B. Liver

C. Alveoli

D. Bronchioles

O1: 1-a, 2-b, 3-c, 4-d

O2: 1-c, 2-d, 3-a, 4-b

O3: 1-d, 2-a, 3-d, 4-c

O4: 1-b, 2-a, 3-c, 4-d

Q106.

Subject: Orthopaedics

Topic: General + Upper Limb Traumatology

Anterior dislocation of the shoulder is likely to result in the damage of which of the following nerves?

O1: Axillary nerve

O2: Median nerve

O3: Radial nerve

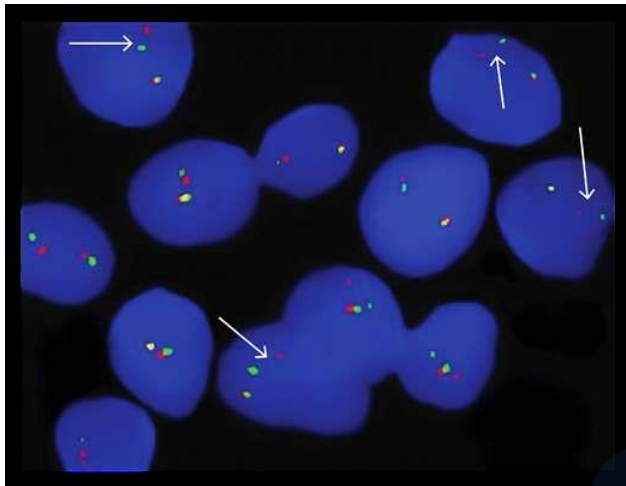
O4: Suprascapular nerve

Q107.

Subject: Biochemistry

Topic: Genetics

A patient was diagnosed with Ewing sarcoma with EWSR1 gene mutation. The technique shown in the image was performed to confirm the diagnosis. Identify the technique shown in the image.



O1: Fluorescent in situ hybridisation

O2: Karyotyping

O3: Immunohistochemistry

O4: Sanger's technique

Q108.

Subject: PSM

Topic: Epidemiology

Attributable risk calculated to understand the relation between smoking and lung cancer is 90%. Which of the following is true?

O1: 10% of lung cancers in smokers is not associated with smoking

O2: 90% cases of lung cancer can be eliminated in population if smoking is eliminated

O3: 90% cases of lung cancer can be eliminated in smokers if smoking is eliminated

O4: 10% cases of lung cancer can be eliminated in population if smoking is eliminated

Q109.

Subject: PSM

Topic: Communicable and Non-communicable Diseases

Isolation in a separate room is mandatory for which of the following air-borne infections?

- O1: Measles
- O2: Rabies
- O3: Nipah
- O4: Aseptic meningitis

Q110.

Subject: Pharmacology

A 40-year-old chronic alcoholic presented with withdrawal symptoms. His liver function tests showed AST 140 IU/L, ALT 110 IU/L, and GGT 500 IU/L. Which of the following benzodiazepines can be safely administered to this patient?

- O1: Diazepam
- O2: Alprazolam
- O3: Clonazepam
- O4: Lorazepam

Q111.

Subject: Gynaecology & Obstetrics

Topic: Gynecology

Which of the following patients would be classified as having primary amenorrhea?

- O1: 11-year-old girl with Tanner stage 1 breasts
- O2: 14-year-old girl with Tanner stage 1 breasts
- O3: 13-year-old girl with Tanner stage 5 breasts
- O4: 12-year-old with Tanner stage 4 breasts

Q112.

Subject: Medicine

Topic: Infectious Diseases

A young man is brought to the hospital with high-grade fever and altered consciousness. On examination, he had neck rigidity and pain when bending the neck. A lumbar puncture was performed, which showed a WBC count of 45 cells/ $\mu$ L, majorly being neutrophils, elevated pressure with protein of 120 mg/dL, and glucose level of 70 mg/dL. How will you manage the index case?

- O1: Piperacillin + tazobactam

O2: Vancomycin + ceftriaxone

O3: Amphotericin B + flucytosine

O4: Antitubercular therapy

Q113.

Subject: Biochemistry

Topic: Genetics

Which of the following techniques is used to detect DNA-protein interaction?

O1: DNA foot printing

O2: DNA fingerprinting

O3: ELISA

O4: Northern blotting

Q114.

Subject: Biochemistry

Topic: Amino Acids and Proteins Chemistry

A baby is brought to the OPD complaining of lethargy and poor feeding. On examination, it was noted that the urine smelled of burnt sugar. A defect in which of the following enzymes causes this disease?

O1: Branched-chain ketoacid dehydrogenase

O2: Branched-chain amino acid dehydrogenase

O3: Branched-chain ketoacid oxidase

O4: Branched-chain amino acid

Q115.

Subject: Pediatrics

Topic: Pediatric Cardiology

A child presents with cold feet and a history of wearing socks even in the summers. On examination, lower limb pulses are diminished compared to the radial pulse. Prominent radio-femoral delay is present. What is the underlying condition?

O1: There is hypertrophy of ductus arteriosus.

O2: Coarctation distal to the origin of the left subclavian artery

O3: Supply is from the posterior to the anterior thoracic artery.

O4: Collaterals develop to supply the upper limb.

Q116.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Identify the wrong statement regarding the period of gestation calculation:

O1: 1st-trimester USG is the best assessment

O2: Calculated from the last day of the last menstrual period

O3: In an IVF pregnancy, day of embryo transfer/day of fertilization is needed to calculate POG

O4: Crown-rump length is the best measure of the period of gestation in the first trimester

Q117.

Subject: Surgery

Topic: Neurosurgery

An old lady sustained a fall and developed a headache and neurological symptoms a few days later. What is your diagnosis?

O1: Multi-infarct dementia

O2: Frontal lobe meningioma

O3: Korsakoff disease

O4: Subdural hematoma

Q118.

Subject: Biochemistry

Topic: Genetics

Misincorporation of uracil into DNA is seen in deficiency of:

O1: Vitamin B12

O2: Folate

O3: Vitamin B6

O4: Vitamin E

Q119.

Subject: Dermatology

Topic: Mycobacterial Infections

A patient presents to the outpatient department with a satellite skin lesion. On examination, he has one hypopigmented lesion and one thickened nerve. Images of two blister packs are given below. The treatment best suited for this patient would be:



O1: Packet 1 for 12 months

O2: Packet 2 for 12 months

O3: Packet 2 for 6 months

O4: Packet 1 for 6 months

Q120.

Subject: Gynaecology & Obstetrics

Topic: Gynecology

The daughter of a woman who received diethylstilbestrol during her pregnancy is at higher risk for:

O1: Squamous cell carcinoma

O2: Clear cell carcinoma

O3: Adenocarcinoma

O4: Sarcoma botryoides

Q121.

Subject: Surgery

Topic: Endocrine Surgery

A 25-year-old woman presents with a breast lump, no skin changes, and no indurations. On histology, there was a fibroadenoma appearance. Which of the following categories does it fall under?

O1: BIRADS 1 and 2

O2: BIRADS 2 or 4

O3: BIRADS 2,3,4

O4: BIRADS 2

Q122.

Subject: Statistics

Identify the formula given below:

$$\sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}$$

O1: Standard deviation

O2: Standard error

O3: Median

O4: Variance

Q123.

Subject: Pharmacology

Topic: General Pharmacology

Which of the following statements is correct regarding clinical trials?

O1: New drug application is done after phase 4

O2: Phase 4 is also called post marketing surveillance

O3: Phase 3 is always double blinded

O4: Phase 2 is done on healthy individuals

Q124.

Subject: Forensic Medicine

Topic: Forensic Traumatology

The image given below is a type of:





- O1: Contusion
- O2: Abrasion
- O3: Laceration
- O4: Stab wound

Q125.

Subject: Pathology

Topic: Hematology: White Blood Cells

The given peripheral smear is associated with which of the following leukemias?

\*(Note: Refer to a typical CLL smear showing smudge cells)\*

- O1: Acute lymphoblastic leukemia
- O2: Chronic lymphocytic leukemia
- O3: Acute myeloid leukemia
- O4: Chronic myelogenous leukemia

Q126.

Subject: Psychiatry

Topic: Sexual Disorders

Match the following:

- 1. Eonism
- 2. Exhibitionism
- 3. Frotteurism
- 4. Necrophilia

- A. Exposure of one's genitals to an unsuspecting stranger
- B. Sexual gratification by intercourse with dead bodies
- C. Sexual pleasure by wearing clothes of the opposite sex
- D. Sexual gratification by rubbing private parts against another person

O1: 1-B, 2-A, 3-D, 4-C

O2: 1-C, 2-A, 3-D, 4-B

O3: 1-C, 2-D, 3-A, 4-B

O4: 1-C, 2-B, 3-D, 4-A

Q127.

Subject: Surgery

Topic: Gastrointestinal Surgery

Match the following:

- A. Nylon 3-0
- B. Polyglactin
- C. Polypropylene 1-0
- D. Polypropylene 2-0

1. Bowel anastomosis
2. Suturing linea alba in the midline
3. Midline laparotomy skin wound closure
4. Fixing mesh in hernia surgery

O1: A-4, B-1, C-4, D-2

O2: A-3, B-1, C-4, D-2

O3: A-3, B-1, C-2, D-4

O4: A-1, B-4, C-3, D-4

Q128.

Subject: Pharmacology

Topic: Endocrine Pharmacology

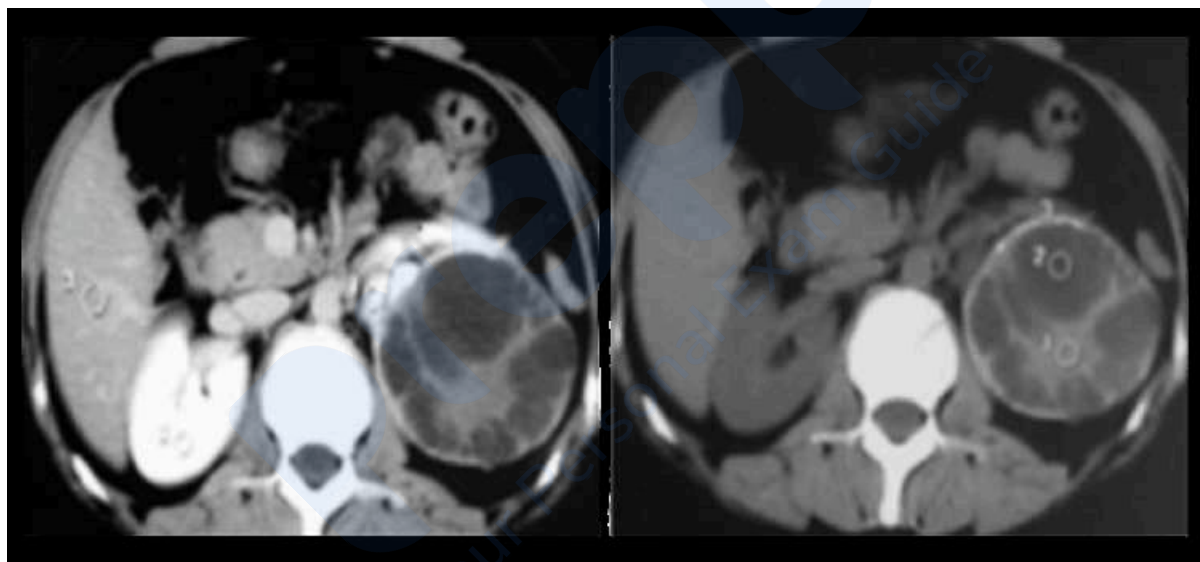
The half-life of letrozole is:

- O1: 46 hours
- O2: 70 hours
- O3: 90 hours
- O4: 120 hours

Q129.

Subject: Surgery

A patient presents to you with left-sided flank pain. A CT scan was done. Which of the following statements is incorrect regarding the condition?



- O1: Albendazole can be started preoperatively
- O2: Cyst contents can produce anaphylactic reaction
- O3: A segmented dog tapeworm is the causative agent
- O4: FNAC or biopsy to be done before nephrectomy

Q130.

Subject: Anatomy

Topic: Head and Neck

Fracture of the jugular canal can present as:

- O1: Loss of taste sensation in anterior 2/3rd of tongue

O2: Loss of taste sensation in posterior 1/3rd of tongue

O3: Loss of general sensation in anterior 2/3rd of tongue

O4: Loss of motor sensation in anterior 2/3rd of tongue

Q131.

Subject: Microbiology

Topic: Systemic Bacteriology

Which of the following is an example of mollicutes?

O1: Ureaplasma urealyticum

O2: Orientia tsutsugamushi

O3: Chlamydophila pneumoniae

O4: Chlamydia trachomatis

Q132.

Subject: Pharmacology

Topic: Autacoids

NAPQI is the metabolite of which of the following drug toxicity?

O1: Aspirin

O2: Paracetamol

O3: Diclofenac

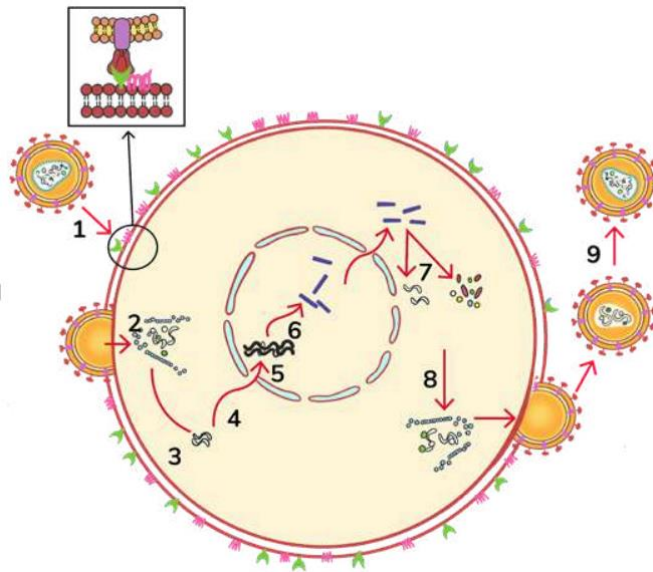
O4: Ketorolac

Q133.

Subject: Pharmacology

Topic: Chemotherapy of Specific Microbial Diseases

The image below shows the life cycle of a virus. Which of the following drugs acts at step 5?



O1: Raltegravir

O2: Enfuvirtide

O3: Tenofovir

O4: Zidovudine

Q134.

Subject: Medicine

Topic: Infectious Diseases

A 40-year-old man presents with 15 days of fever and altered sensorium for 1 day. Rapid diagnostic test was done, and *Plasmodium falciparum* was diagnosed. Which of the following is not a complication?

O1: Blood glucose <40 mg/dL

O2: Arterial pH >7.2

O3: Serum creatinine - 5.2

O4: Unarousable coma

Q135.

Subject: Dermatology

Topic: Papulosquamous Disorders

A female patient came to the hospital with a history of relapsing, remitting, mildly itchy erythematous plaques over the scalp, sacral area, and knees. She has a history of joint pain, and her nail changes are shown in the image below. What is your diagnosis?



O1: Adult-onset Still's disease

O2: Pachyonychia congenita

O3: Psoriasis

O4: Lichen planus

Q136.

Subject: Pharmacology

Topic: Antimicrobials: Anti Bacterial Drugs

The given diagram shows the steps in bacterial cell wall formation. Identify the site of action of beta-lactam antibiotics.



O1: 1

O2: 2

O3: 3

O4: 4

Q137.

Subject: Gynaecology &amp; Obstetrics

Topic: Gynecology

All of the following are risk factors of vulval cancer except:

O1: Vulval dystrophy

O2: Vulval hamartoma

O3: Smoking

O4: Vulval warts

Q138.

Subject: Physiology

Topic: Respiratory System

If the pH is reduced from 7.4 to 7.3 with the PO<sub>2</sub> being constant at 100 mmHg, which line would PCO<sub>2</sub> follow?

O1: 1

O2: 2

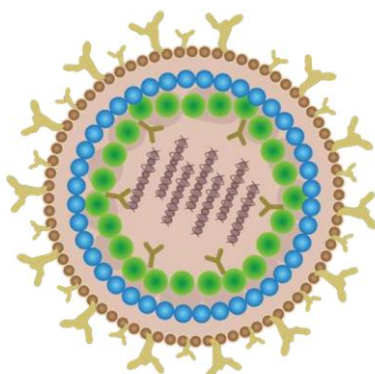
O3: 3

O4: 4

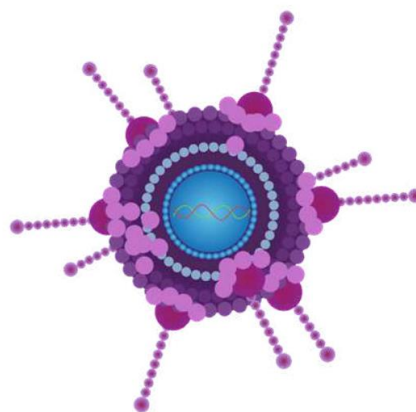
Q139

Subject: Microbiology

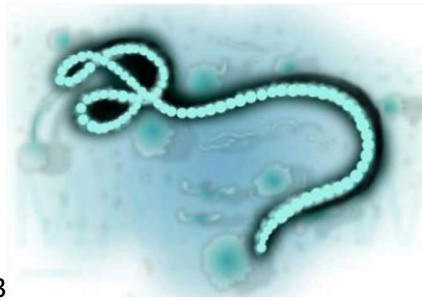
Which of the following viruses exhibits genetic reassortment similar to that of influenza virus?



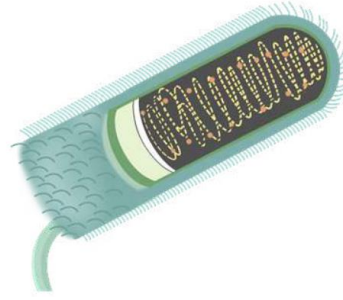
1



2



3



4

O1: 1

O2: 2

O3: 3

O4: 4

Q140.

Subject: Biochemistry

Topic: Genetics

The banding technique used for dicentric chromosomes is:

O1: G banding

O2: C banding

O3: NOR

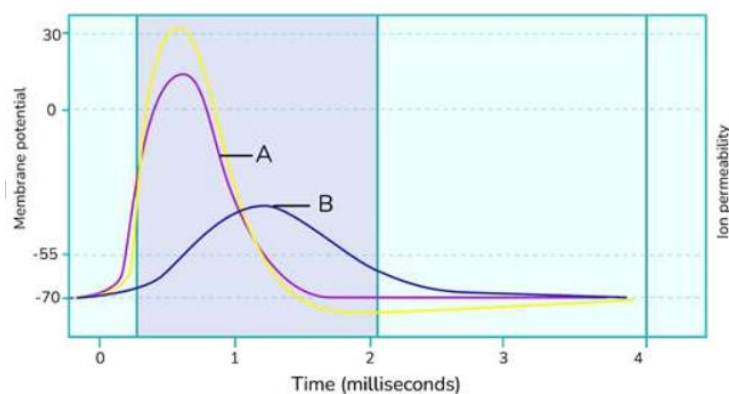
O4: R banding

Q141.

Subject: Physiology

Topic: Nerve Muscle Physiology

A and B in the graph below represent which of the following ions, in terms of permeability for action potential generation?





O1: A is Na<sup>+</sup>, B is K<sup>+</sup>

O2: A is Na<sup>+</sup>, B is Ca<sup>2+</sup>

O3: A is K<sup>+</sup>, B is Ca<sup>2+</sup>

O4: A is Ca<sup>2+</sup>, B is K<sup>+</sup>

Q142.

Subject: Surgery

Topic: Cardiothoracic Vascular Surgery

A patient presents with multiple stab injuries to the chest. On examination, there is reduced chest movement on the right side and tracheal deviation to the left side. Additionally, the neck veins are distended. What is the next step in the management of this patient?

O1: Resuscitative thoracotomy

O2: ICD placement

O3: Needle thoracocentesis

O4: Finger thoracotomy

Q143.

Subject: Physiology

Topic: General Physiology

What is the value of normal tissue oncotic pressure?

O1: 12 mmHg

O2: 25 mmHg

O3: 32 mmHg

O4: 54 mmHg

Q144.

Subject: Pediatrics

Topic: Infectious Diseases

Which of the following statements are true regarding cytomegalovirus (CMV) infection?

1. Neonates who are asymptomatic at birth have a lesser risk of later sequelae.
2. 20–40% are symptomatic at birth.

3. In developing countries, the transmission rate of CMV infection to the infant is more common from primary maternal infection than reactivation.
4. Diagnosis by urine specimen at 4 weeks of age.

O1: 3, 4

O2: 1, 2

O3: 2, 4

O4: 1, 3

Q145.

Subject: Anaesthesia

Topic: Intravenous Anesthetic Agents

Which of the following is required for the cannulation of a newborn?

1. 22G needle
2. 24G needle
3. 5-mL syringe
4. Adhesive tape
5. Normal saline

O1: 1, 3, 4, 5

O2: 2, 3, 4, 5

O3: 2, 4

O4: 1, 4

Q146.

Subject: ENT

Topic: Nose and Paranasal Sinuses

Which of the following tests cannot be used to assess nasal mucociliary clearance?

- O1: Saccharine test
- O2: Electron microscopy
- O3: Charcoal powder method

O4: Scintigraphy

Q147.

Subject: Surgery

Topic: Pathology

Match the following:

A. Marjolin ulcer over dorsum of foot (3cm x 2cm)

B. 1.5 cm cervical lymph node in neck

C. Soft tissue sarcoma over mid-thigh

D. Solitary thyroid nodule

1. Excision biopsy

2. Core needle biopsy

3. USG-guided FNAC

4. Wedge biopsy

O1: A-1, B-2, C-3, D-4

O2: A-4, B-1, C-2, D-3

O3: A-3, B-2, C-1, D-4

O4: A-4, B-3, C-2, D-1

Q148.

Subject: Pathology

"Cell-in-cell" appearance is seen in:

O1: Necrosis

O2: Apoptosis

O3: Necroptosis

O4: Entosis

Q149.

Subject: ENT

Topic: Ear Surgery

Match the following (Wullstein's Classification):

1. Type II
2. Type III
3. Type IV
4. Type V

With procedures:

1. Fenestration tympanoplasty
2. Graft placed over the incus
3. Cavum minor
4. Columella tympanoplasty

O1: A-1, B-2, C-3, D-4

O2: A-2, B-3, C-4, D-1

O3: A-2, B-4, C-1, D-3

O4: A-1, B-3, C-4, D-2

Q150.

Subject: Orthopaedics

Topic: Nerve Injuries

Injury of the lower brachial plexus leads to Klumpke's paralysis. What is the characteristic clinical finding seen in this lesion?

- O1: Policeman tip hand
- O2: Wrist drop
- O3: Claw hand
- O4: Horner's syndrome

Q151.

Subject: Gynaecology & Obstetrics

Topic: Gynecology

A 16-year-old presents with absent menses. Examination shows widely spaced nipples, webbed neck, and Tanner grade 1 breast development. USG shows streak ovaries. Investigation shows raised FSH, raised LH, and reduced estradiol. What is the diagnosis?

- O1: Turner syndrome
- O2: Kallmann syndrome
- O3: Androgen insensitivity syndrome
- O4: Mayer-Rokitansky-Küster-Hauser (MRKH) syndrome

Q152.

Subject: Anatomy / ENT

Foreign body entry into the laryngeal inlet is prevented by the cough reflex. This reflex is sluggish in alcohol ingestion and some other conditions. Which nerve is likely injured?

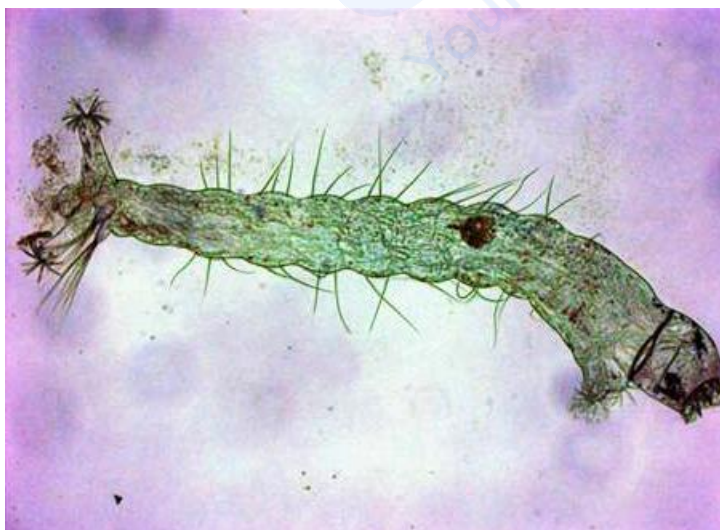
- O1: Internal laryngeal nerve
- O2: Glossopharyngeal nerve
- O3: External laryngeal nerve
- O4: Recurrent laryngeal nerve

Q153.

Subject: PSM

Topic: Environment and Health

Water from a broken septic tank is collected in a container and breeding mosquitoes are seen. The image of the larva is given below. Identify the species of the mosquito.



O1: Anopheles

O2: Aedes

O3: Mansonia

O4: Culex

Q154.

Subject: PSM

Topic: Allied Health Disciplines

Following an earthquake, the building codes were changed to earthquake-resistant buildings. Which of the following steps of disaster management does this fall under?

O1: Disaster response

O2: Disaster reconstruction

O3: Disaster rehabilitation

O4: Disaster mitigation

Q155.

Subject: Pharmacology

Topic: General Pharmacology

Phospholipase C acts via which of the following G protein–coupled receptors?

O1: Gs

O2: Gi

O3: Gq

O4: Go

Q156.

Subject: Psychiatry

Topic: Schizophrenia Spectrum and Other Psychotic Disorders

A patient diagnosed with schizophrenia started on risperidone. After taking the medication last night, the patient rushed to OPD today, complaining of upward rolling of his eyes. What is the management of the condition?

O1: Lorazepam

O2: Promethazine

O3: Olanzapine

O4: Stop antipsychotic.

Q157.

Subject: Forensic Medicine

Topic: Asphyxial Deaths

Spanish windlass is a type of which strangulation method?

O1: Bansdola

O2: Garroting

O3: Mugging

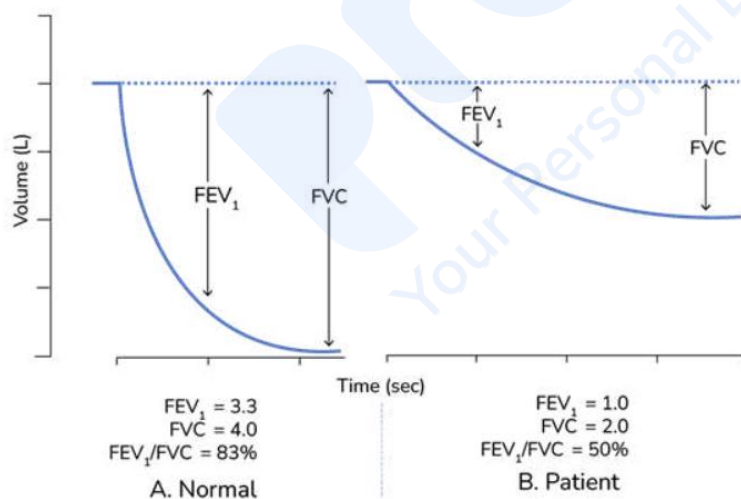
O4: Throttling

Q158.

Subject: Medicine

Topic: Pulmonology

The given image shows a normal graph on the left and the patient's graph on the right. Which of the following diagnosis can be inferred from the graph?



O1: Chest wall neuromuscular disease

O2: Sarcoidosis

O3: Idiopathic pulmonary fibrosis

O4: Bronchiectasis

Q159.

Subject: ENT

Topic: Vestibular Disorders

A patient presents with vertigo associated with horizontal nystagmus. The slow component is towards the left. What is the most likely diagnosis?

O1: Posterior canal BPPV

O2: Superior canal BPPV

O3: Right hypoactive labyrinth

O4: Left hypoactive labyrinth

Q160.

Subject: Physiology

Topic: Cardiovascular System

Which of the following can be used to calculate cardiac output?

A. ECHO

B. Ventilation–perfusion scan

C. Thermodilution

D. Fick's principle

O1: A, B, C, D

O2: B, A, D

O3: B, C, D

O4: A, C, D

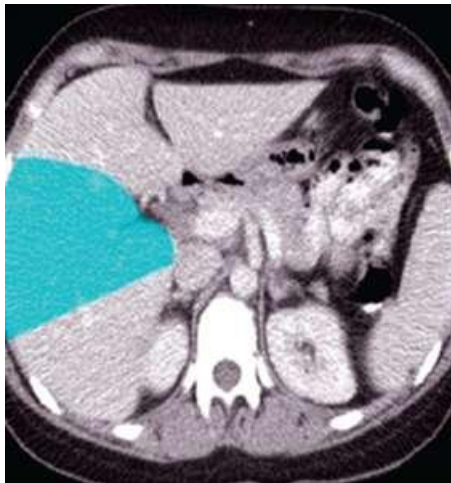
Q161.

Subject: Radiology

Topic: Hepatobiliary Radiology

Identify the liver segment marked in the image below:





O1: V

O2: IVa

O3: VII

O4: III

Q162.

Subject: Biochemistry

Topic: Carbohydrate Metabolism

Fructosamine is obtained by glycation of:

O1: Fructose

O2: Albumin

O3: Urea

O4: Glycosaminoglycan

Q163.

Subject: Surgery

Topic: Clinical Essentials

Which of the following causes maximum malnutrition?

O1: Pancreatic fistula

O2: Duodenal fistula

O3: Distal ileal fistula

O4: Colonic fistula

Q164.

Subject: Radiology

Topic: Basics of Radiology

Whole-body CT scan protocol for a trauma patient includes all, except:

O1: CT Head

O2: CT Cervical spine

O3: CT Limbs

O4: CT Abdomen

Q166.

Subject: Surgery

Topic: Gastrointestinal Surgery

Which of the following statements about Psoas abscess are true?

1. Fluctuant swelling in the hip

2. Cold abscess can develop from Pott's abscess

3. Pain on passive extension of hip joint is seen

4. It develops more commonly through hematogenous route in immunocompromised patients and elderly

O1: 1 and 2

O2: 1, 3 and 4

O3: 1, 2, 3 and 4

O4: 2, 3 and 4

Q167.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Which of the following is incorrect regarding the innervation of the uterus?

O1: Sensory level is from T10 to L1

O2: Uterine contractility is mediated by innervations from level T7–T8

O3: In the 1st stage of labor, pain is due to the fibers at level of T10–L1

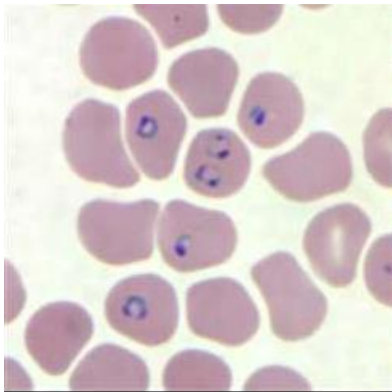
O4: In early labor, pain is usually because of the uterine contraction

Q168.

Subject: Medicine

Topic: Infectious Diseases

A patient comes with a history of high fever for 5 days and altered sensorium. On further probing, it was found that he had two seizures one day ago. Peripheral smear shows the following findings. How will you manage this patient?



O1: Doxycycline 100 mg intravenously for 7 days

O2: Clindamycin 600 mg intravenously 8 hourly for 7 days

O3: Artesunate 2.4 mg/kg intravenously at 12 and 24 hours, followed by daily once

O4: Chloroquine intramuscularly 8 hourly for 3 days

Q169.

Subject: Surgery

Topic: Trauma Surgery

Which of the following is not a part of damage control surgery?

O1: Control of hemorrhage

O2: Resuscitation

O3: Decontamination

O4: Vascular anastomosis

Q170.

Subject: Dermatology

Topic: Skin Tumors

A 60-year-old diabetic female patient presents with progressive skin lesions, as shown in the image.  
What is the diagnosis?



- O1: Squamous cell carcinoma
- O2: Basal cell carcinoma
- O3: Melasma
- O4: Discoid lupus erythematosus

Q171.

Subject: Pharmacology

Topic: Drugs Affecting Blood and Blood Formation

A young boy with a history of multiple blood transfusions presents with bone pain for the past 6 months. A peripheral smear showed sickle-shaped RBCs. Which of the following drugs are not used in the treatment of his condition?

- O1: Bebtelovimab
- O2: Voxelotor
- O3: Hydroxyurea
- O4: L-glutamine

Q172.

Subject: Forensic Medicine

Topic: Forensic Identification

Match the following: Tooth — Age of eruption

- A. Canine
- B. Lateral incisor
- C. First molar
- D. Third molar

- 1. 6–7 years
- 2. 8–9 years
- 3. 11–12 years
- 4. 17–25 years

O1: A-1, B-3, C-2, D-4

O2: A-3, B-4, C-1, D-2

O3: A-3, B-2, C-1, D-4

O4: A-2, B-3, C-4, D-1

Q173.

Subject: Respiratory Medicine

Topic: Aspiration Syndromes

Which of the following lobes of the lung is affected when there is aspiration in supine position?

- O1: Lingula
- O2: Upper part of right inferior lobe
- O3: Right superior lobe
- O4: Right middle lobe

Q174.

Subject: Surgery

Topic: Gastrointestinal Surgery

A 32-year-old male presents to the surgical emergency with a history of peptic ulcer disease and symptoms of obstruction (pain, bloating, obstipation). What is the next line in management?



1. IV fluids
2. CECT abdomen
3. Exploratory laparotomy
4. Upper GI endoscopy

O1: A and B

O2: A and C

O3: A and D

O4: A, B and C

Q175.

Subject: Anatomy

Topic: Neuroanatomy

Which of the following are a part of the limbic system?

1. Amygdala
2. Hippocampus
3. Thalamus

O1: 1, 2

O2: 1, 3

O3: 2, 3

O4: 1, 2, 3

Q176.

Subject: Medicine

Topic: Physiology

Which of the following is true regarding shock?

O1: Anaerobic respiration produces carbon dioxide

O2: Low pH mainly activates lysosomal enzymes

O3: Peripheral vasoconstriction

O4: Renal perfusion is maintained

Q177.

Subject: PSM

Topic: Communicable and Non-communicable Diseases

False statement regarding rabies immunoglobulin is?

O1: It is exclusively given in the deltoid

O2: The dose is 20 IU/kg

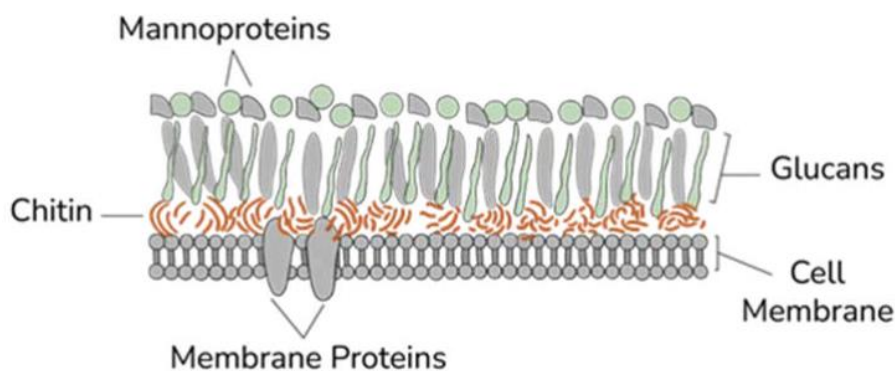
O3: Not given after 7 days

O4: If human RIG is unavailable, equine is preferred

Q178.

Subject: Microbiology

The cell wall depicted below is most likely to belong to which of the following organisms?



O1: Aspergillus fumigatus

O2: Mycobacterium tuberculosis

O3: Mycoplasma pneumoniae

O4: Rhinosporidium seeberi

Q179.

Subject: Ophthalmology

Topic: Introduction to Ophthalmology

Oculocephalic reflex assesses the integrity of which of the following cranial nerves?

A. III

B. IV

C. VI

D. VIII

E. VII

O1: A and C

O2: A and E

O3: A and D

O4: A, C and D

Q180.

Subject: Surgery

Topic: Gastrointestinal Surgery

Identify the correct statement regarding gastric carcinoma:

1. It is mostly hereditary

2. E-cadherin adhesion defect is seen in diffuse type of gastric carcinoma

3. Wnt signaling pathway defect is seen in intestinal-type gastric carcinoma

4. Depth of cancer has no role in prognosis

O1: A, C, D

O2: B, C



O3: B, C, D

O4: A, D

Q181.

Subject: Anatomy

Topic: Pelvis and Perineum

Which of the following muscles form the pelvic diaphragm?

A. Iliococcygeus

B. Pubococcygeus

C. Obturator internus

D. Deep transverse perinei

O1: A, B

O2: A, B, C, D

O3: A, B, D

O4: A, D

Q182.

Subject: Surgery

Topic: Hepatobiliary Pancreatic Surgery

A patient presented with large intra-abdominal fluid accumulation and was found to have pancreatic necrosis. Which of the following are included in the management of the condition?

1. Antibiotics IV

2. IV fluids

3. Culture

4. MRI

5. Assisted drainage

6. Laparotomy

O1: 1, 2, 3, 4 and 5

O2: 2, 4, 5 and 6

O3: 1, 2, 3 and 5

O4: 1, 2, 3, 4, 5 and 6

Q183.

Subject: Pediatrics

Topic: Pediatric Nephrology

Which of the following is true regarding children's urinary tract infections (UTIs)?

1. Most common cause of UTI is *Streptococcus pneumoniae*.
2. Bowel bladder dysfunction increases the risk of recurrence.
3. Cotrimoxazole is not given.
4. Micturating cystourethrogram (MCU) is done in children with recurrence of UTI.

O1: 1, 3, 4

O2: 2, 4

O3: 2, 3, 4

O4: 1, 4

Q184.

Subject: Pharmacology

Topic: General Pharmacology

Dorzolamide is a .....

- O1: Topically applied sulfonamide antibacterial
- O2: Topical ocular carbonic anhydrase inhibitor
- O3: Second-generation sulfonylurea
- O4: Opioid receptor agonist

Q185.

Subject: Immunology

Topic: Cytokines

Which of the following cytokines is not involved in Th1 response?

- O1: IFN gamma

O2: IL-2

O3: IL-12

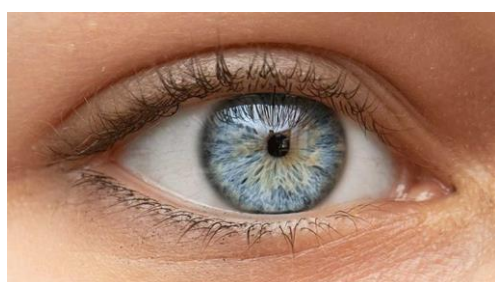
O4: IL-4

Q186.

Subject: Pharmacology

Topic: CNS Pharmacology

A patient who is a known addict is brought to the hospital with the intoxication of an agent. An ocular examination shows the following finding. Which of the following is true regarding this condition?



O1: This action can be reversed by phenylephrine

O2: It cannot be reversed by levallorphan

O3: It is caused by activation of the Edinger-Westphal nucleus

O4: Tolerance develops due to long-term use

Q187.

Subject: Orthopaedics

Topic: Spine + Pelvis + Lower Limb Traumatology

A 60-year-old patient presents with limping gait and left hip pain. What is the likely diagnosis?



- O1: Tuberculosis of the hip
- O2: Rheumatoid arthritis
- O3: Ankylosing spondylitis
- O4: Avascular necrosis

Q188.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

All are causes of uterine dysfunction, except:

- O1: High fetal head station
- O2: Multiparity
- O3: Neuraxial block
- O4: Chorioamnionitis

Q189.

Subject: Pediatrics

Topic: Pediatric Neurology

Which of the following increase the risk of recurrence of febrile seizures?

1. Age <1 year
2. Temperature of 38–39°C
3. Duration of fever <24 h
4. Duration of fever >48 h

O1: 1, 2, 4

O2: 1, 4

O3: 1, 2, 3

O4: 1, 3, 4

Q190.

Subject: PSM

Topic: Communicable and Non-communicable Diseases

A child presents with a dog bite from a street dog. On examination, an abrasion of 1.5 cm is present, with slight oozing. Which of the following statements is correct?

1. Category 3 wound
2. Wash the wound with normal tap water for 15–20 minutes
3. Clean the wound with spirit
4. Loose suturing of the wound with proper dressing
5. Equine immunoglobulin is given at a dose of 40 IU/kg of body weight
6. The intradermal vaccine is administered on day 0, 3, 7, 28

O1: 2, 3, 5, 6

O2: 1, 2, 5, 6

O3: 1, 2, 3, 5

O4: 1, 2, 3, 6

Q191.

Subject: Pediatrics

Topic: Nutrition and Malnutrition

Which alternative to breast milk in low birth weight (LBW) children can be used?

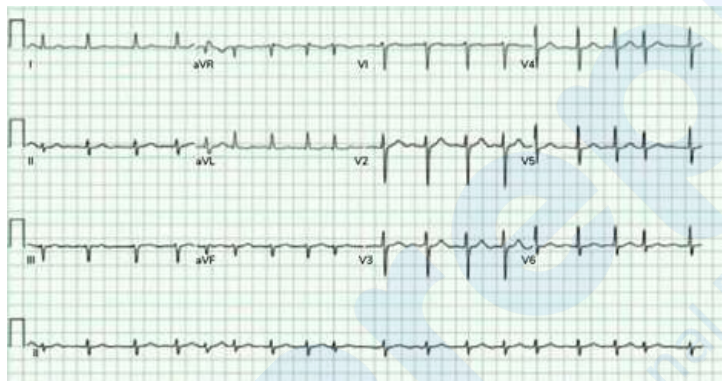
- O1: Cow's milk
- O2: Preterm formula
- O3: Term formula
- O4: Human donor milk

Q192.

Subject: Medicine

Topic: Cardiology

Based on the ECG given below, which of the following drugs is not used in the management of the condition?



- O1: Verapamil
- O2: Propranolol
- O3: Amiodarone
- O4: Diltiazem

Q193.

Subject: Biochemistry

Topic: Carbohydrate Metabolism

Glycogen phosphorylase is activated by:

- O1: Calcium
- O2: Glucose-6-phosphate
- O3: Insulin
- O4: Protein phosphatase

Q194.

Subject: Surgery / Pulmonology

Hamman sign is seen in:

O1: Pneumoperitoneum

O2: Pneumopericardium

O3: Pneumomediastinum

O4: Hydropneumothorax

Q195.

Subject: Gynaecology & Obstetrics

Topic: Obstetrics

Modified biophysical profile includes:

O1: NST and fetal tone

O2: NST and AFI

O3: NST and breathing movements

O4: NST and gross fetal movements

Q196.

Subject: Pharmacology

Topic: Renal Pharmacology

Match the following diuretics in column A to their site of action in column B.

Column A:

A. Acetazolamide

B. Torsemide

C. Chlorthalidone

D. Vasopressin

Column B:

1. Thick ascending loop of Henle

2. Collecting duct

- 3. Distal convoluted tubule
- 4. Proximal convoluted tubule

O1: A-2, B-3, C-1, D-4

O2: A-3, B-4, C-2, D-1

O3: A-1, B-2, C-4, D-3

O4: A-4, B-1, C-3, D-2

Q197.

Subject: Surgery

Topic: Hepatobiliary Pancreatic Surgery

What is true about gall bladder carcinoma?

O1: Palpable abdominal lump is the earliest sign

O2: Earliest sign is jaundice

O3: Clinical presentation of gallstones can be distinguished from gallbladder cancer

O4: Median survival is 6 months

Q198.

Subject: Immunology

Topic: Immune Response

Which of the following is wrong regarding primary and secondary immune response?

| Feature           | Primary            | Secondary   |
|-------------------|--------------------|-------------|
| Lag period        | 4–10days           | 1–3days     |
| Antibody Response | Depends on antigen | More potent |
| Isotype generated | IgM                | IgG         |

Q199.

Subject: ENT

Topic: Hearing Evaluation

Which of the following tests can be used if otoacoustic emissions is absent for screening?

- 1. Pure tone audiometry



2. Tympanometry
3. Free field audiometry
4. Speech audiometry

O1: 2 and 4

O2: 1, 3, 4

O3: 2, 3, 4

O4: 2 and 3

Q200.

Subject: Medicine

Topic: Cardiovascular System

Which of the following are signs of heart failure?

1. Non-pulsatile rise of JVP
2. Orthopnoea
3. Dyspnoea after 2 hours of sleep
4. Right upper quadrant pain/right hypochondrial pain

O1: 1 and 2

O2: 1, 2, 3

O3: 2, 3, 4

O4: 1, 3, 4