

AIPGMEE

Sample 2005 Paper



Subject - Anaesthesiology

Question 1: The laryngeal mask airway used for securing airway of a patient in all of the following conditions except ?

- A) In a difficult intubation
- B) In cardiopulmonary resuscitation
- C) In a child undergoing an elective/routine eye surgery
- D) In a patient with a large tumor in the oral cavity

Answer: D) In a patient with a large tumor in the oral cavity

Question 2: The following are used for treatment of postoperative nausea and vomiting following squint surgery in children except ?

- A) Ketamine
- B) Ondansetron
- C) Propofol
- D) Dexamethasone

Answer: A) Ketamine

Question 3: Which one of the following anaesthetic agents cause a rise in the Intracranial pressure ?

- A) Sevoflurane
- B) Thiopentone sodium
- C) Lignocaine
- D) Propofol

Answer: A) Sevoflurane

Question 4: The following modes of ventilation may be used for weaning off patients from mechanical ventilation except ?

- A) Controlled Mechanical ventilation (CMV)
- B) Synchronized intermittent mandatory ventilation (SIMV)
- C) Pressure support ventilation (PSV)
- D) Assist - control ventilation (ACV)

Answer: A) Controlled Mechanical ventilation (CMV)

Question 5: A Lower Segment Caesarean Section (LSCS) can be carried out under all of the following techniques of anaesthesia except ?

- A) General anaesthesia
- B) Spinal anaesthesia
- C) Caudal anaesthesia
- D) Combined Spinal Epidural anaesthesia

Answer: C) Caudal anaesthesia

Question 6: The most appropriate circuit for ventilating a spontaneously breathing infant during anaesthesia is ?

- A) Jackson Rees' modification of Ayers' T Piece
- B) Mapleson A or Magill's circuit
- C) Mapleson C or Waters' to and fro canister
- D) Bains circuit

Answer: A) Jackson Rees' modification of Ayers' T Piece

Question 7: The abnormal preoperative pulmonary function test in a patient with severe kyphoscoliosis includes ?

- A) Increased RV/TLC
- B) Reduced FEV1/FVC
- C) Reduced FEV 25-75
- D) Increased FRC

Answer: A) Increased RV/TLC

Subject - Anatomy

Question 8: All of the following are branches of the external carotid artery except ?

- A) Superior thyroid artery
- B) Anterior Ethmoidal artery
- C) Occipital artery
- D) Posterior auricular artery

Answer: B) Anterior Ethmoidal artery

Question 9: Paralysis of 3rd, 4th 6th nerves with involvement of ophthalmic division of 5th nerve, localizes the lesion to ?

- A) Cavernous sinus
- B) Apex of orbit
- C) Brainstem
- D) Base of skull

Answer: A) Cavernous sinus

Question 10: The carpal tunnel contains all of the following important

structures except ?

- A) Median nerve
- B) Flexor pollicis longus
- C) Flexor carpi radialis
- D) Flexor digitorum superficialis

Answer: C) Flexor carpi radialis

Question 11: The femoral ring is bounded by the following structures except ?

- A) Femoral vein
- B) Inguinal ligament
- C) Femoral artery
- D) Lacunar ligament

Answer: C) Femoral artery

Question 12: All of the following statements regarding vas deference are true except ?

- A) The terminal part is dilated to form ampulla
- B) It crosses ureter in the region of ischial spine
- C) It passes lateral to inferior epigastric artery at deep inguinal ring
- D) It is separated from the base of bladder by the peritoneum

Answer: D) It is separated from the base of bladder by the peritoneum

Question 13: The following statements concerning chorda tympani nerve are true except that it ?

- A) Carries secretomotor fibers to submandibular gland
- B) Joins lingual nerve in infratemporal fossa

- C) Is a branch of facial nerve
- D) Contains postganglionic parasympathetic fibers

Answer: D) Contains postganglionic parasympathetic fibers

Question 14: The type of joint between the sacrum and the coccyx is a ?

- A) Symphysis
- B) Syostosis
- C) Synchondrosis
- D) Syndesmosis

Answer: A) Symphysis

Question 15: The prostatic urethra is characterized by all of the following features, except that it ?

- A) Is the widest and most dilatable part
- B) Presents a concavity posteriorly
- C) Lies closer to anterior surface of prostate
- D) Receives prostatic ductules along its posterior wall

Answer: B) Presents a concavity posteriorly

Question 16: The following group of lymph nodes receives lymphatics from the uterus except ?

- A) External iliac
- B) Internal iliac
- C) Superficial inguinal
- D) Deep inguinal

Answer: D) Deep inguinal

Question 17: All of the following physiological processes occur during the growth at the epiphyseal plate except ?

- A) Proliferation and hypertrophy
- B) Calcification and ossification
- C) Vasculogenesis and erosion
- D) Replacement of red bone marrow with yellow bone marrow

Answer: D) Replacement of red bone marrow with yellow bone marrow

Question 18: Benign prostatic hypertrophy results in obstruction of the urinary tract. The specific condition is associated with enlargement of the ?

- A) Entire prostate gland
- B) Lateral lobes
- C) Median lobe
- D) Posterior lobes

Answer: C) Median lobe

Question 19: In an adult male, on per rectal examination, the following structures can be felt anteriorly except ?

- A) internal iliac lymph nodes
- B) bulb of the penis
- C) prostate
- D) seminal vesicle when enlarged

Answer: A) internal iliac lymph nodes

Subject - Biochemistry

Question 21: The predominant isozyme of LDH in cardiac muscle is ?

- A) LD-1
- B) LD-2
- C) LD-3
- D) LD-5

Answer: A) LD-1

Question 22: Both Vitamin K and C are involved in ?

- A) The synthesis of clotting factors
- B) Post translational modifications
- C) Antioxidant mechanisms
- D) The microsomal hydroxylation reactions

Answer: B) Post translational modifications

Question 23: Enzymes that move a molecular group from one molecule to another are known as ?

- A) Ligases
- B) Oxido-reductases
- C) Transferases
- D) Dipeptidases

Answer: C) Transferases

Question 24: The membrane protein, clathrin is involved in ?

- A) Cell motility

B) Receptor mediated endocytosis

C) Exocytosis

D) Cell shape

Answer: B) Receptor mediated endocytosis

Question 25: The amino acid residue having an imino side chain is ?

A) Lysine

B) Histidine

C) Tyrosine

D) Proline

Answer: D) Proline

Question 26: Which one of the following molecules is used for cell signalling ?

A) CO₂

B) O₂

C) NO

D) N₂

Answer: C) NO

Question 27: All of the following hormones have cell surface receptors except ?

A) Adrenalin

B) Growth hormone

C) Insulin

D) Thyroxine

Answer: D) Thyroxine

Question 28: Fluoride, used in the collection of blood samples for glucose estimation, inhibits the enzyme ?

- A) Glucokinase
- B) Hexokinase
- C) Enolase
- D) Glucose-6-phosphatase

Answer: C) Enolase

Subject - Community Medicine

Question 29: 'Endemic Disease' means that a disease ?

- A) Occurs clearly in excess of normal expectancy
- B) Is constantly present in a given population group
- C) Exhibits seasonal patterns
- D) Is prevalent among animals

Answer: B) Is constantly present in a given population group

Question 30: Which one of the following is a good index of the severity of an acute disease ?

- A) Cause specific death rate
- B) Case fatality rate
- C) Standardized mortality ratio
- D) Five year survival

Answer: B) Case fatality rate

Question 31: Which one of the following statements about influence of smoking on risk of coronary heart disease (CHD) is not true ?

- A) Influence of smoking is independent of other risk factors for CHD
- B) Influence of smoking is only additive to other risk factors for CHD
- C) Influence of smoking is synergistic to other risk factors for CHD
- D) Influence of smoking is directly related to number of cigarettes smoked per day

Answer: B) Influence of smoking is only additive to other risk factors for CHD

Question 34: The recommended daily energy intake of an adult woman with heavy work is ?

- A) 1800
- B) 2100
- C) 2300
- D) 2900

Answer: D) 2900

Question 35: All of the following methods are anti-larval measures except ?

- A) Intermittent irrigation
- B) Paris green
- C) Gambusia affinis
- D) Malathion

Answer: D) Malathion

(Single Best Answer) Question 36: All of the following are true about the Herd Immunity for infectious diseases except ?

- A) It refers to group protection beyond what is afforded by the protection of immunized individuals
- B) It is likely to be more for infections that do not have a sub-clinical phase
- C) It is affected by the presence and distribution of alternative animal hosts
- D) In the case of tetanus it does not protect the individual

Answer: B) It is likely to be more for infections that do not have a sub-clinical phase

Question 37: The best indicator for monitoring the impact of Iodine Deficiency Disorders control programme is ?

- A) Prevalence of goiter among school children
- B) Urinary iodine levels among pregnant women
- C) Neonatal Hypothyroidism
- D) Iodine level in soil

Answer: C) Neonatal Hypothyroidism

Question 38: What is the color-coding of bag in hospitals to dispose off human anatomical wastes such as body parts ?

- A) Yellow
- B) Black
- C) Red
- D) Blue

Answer: A) Yellow

Question 39: WHO defines adolescent age between ?

- A) 10 - 19 years of age

B) 10 - 14 years of age

C) 10 - 25 years of age

D) 9 - 14 years of age

Answer: A) 10 - 19 years of age

Question 40: In a village having population of 1000, we found patients with certain disease. The results of a new diagnostic test on that disease are as follows.

Test Result Disease

Present Absent

+ 180 400

- 20 400

What is the percent prevalence of disease ?

A) 0.20

B) 2

C) 18

D) 20

Answer: D) 20

Question 41: The following tests are used to check the efficiency of pasteurization of milk except ?

A) Phosphatase test

B) Standard plate count

C) Coliform count

D) Methylene blue reduction test

Answer: D) Methylene blue reduction test

Question 42: What will be the BMI of a male whose weight is 89 kg and height is 172 cm ?

- A) 27
- B) 30
- C) 33
- D) 36

Answer: B) 30

Question 45: A 2-year-old female child was brought to a PHC with a history of cough and fever for 4 days with inability to drink for last 12 hours. On examination, the child was having weight of 5 kg, and respiratory rate of 45/minute with fever. The child will be classified as suffering from ?

- A) Very severe disease
- B) Severe Pneumonia
- C) Pneumonia
- D) No Pneumonia

Answer: A) Very severe disease

Question 46: The information technology has revolutionized the world of medical sciences. In which of the following year the Information Technology Act was passed by the Government of India ?

- A) 1998
- B) 2000
- C) 2001
- D) 2003

Answer: B) 2000

Question 47: Transplantation of Human Organs Act was passed by Government of India in ?

A) 1996

B) 1993

C) 1998

D) 1994

Answer: D) 1994

Question 48: Which one of the following is not source of manager's power ?

A) Reward

B) Coercive

C) Legitimate

D) Efferent

Answer: D) Efferent

Question 49: The standard normal distribution ?

A) Is skewed to the left

B) Has mean = 1.0

C) Has standard deviation = 0.0

D) Has variance = 1.0

Answer: D) Has variance = 1.0

(Single Best Answer) Question 50: The PEFR of a group of 11 year old girls follow a normal distribution with mean 300 l/min and standard deviation 20 l/min ?

A) About 95% of the girls have PEFR between 260 and 340 l/min

B) The girls have healthy lungs

C) About 5% of girls have PEFR below 260 l/min

D) All the PEFR must be less than 340 l/min

Answer: A) About 95% of the girls have PEFR between 260 and 340 l/min

Question 51: The events A and B are mutually exclusive, so ?

A) Prob (A or B) = Prob (A) + Prob (B)

B) Prob (A and B) = Prob (A).Prob (B)

C) Prob (A) = Prob (B)

D) Prob (A) + Prob (B) = 1

Answer: A) Prob (A or B) = Prob (A) + Prob (B)

Question 52: Total Cholesterol level = $a + b$ (calorie intake) + c (physical activity) + d (body mass index); is an example of ?

A) Simple linear regression

B) Simple curvilinear regression

C) Multiple linear regression

D) Multiple logistic regression

Answer: C) Multiple linear regression

Question 53: The Hb level in healthy women has mean 13.5 g/dl and standard deviation 1.5 g/dl, what is the Z score for a woman with Hb level 15.0 g/dl ?

A) 9.0

B) 10.0

C) 2.0

D) 1.0

Answer: D) 1.0

Question 54: The diagnostic power of a test to correctly exclude the disease is reflected by ?

- A) Sensitivity
- B) Specificity
- C) Postivity predictivity
- D) Negative predictivity

Answer: D) Negative predictivity

Question 55: Infant mortality does not include ?

- A) Early neonatal mortality
- B) Perinatal mortality
- C) Post neonatal mortality
- D) Late neonatal mortality

Answer: B) Perinatal mortality

Question 56: A cardiologist found a highly significant correlation coefficient ($r=0.90$, $p=0.01$) between the systolic blood pressure values and serum cholesterol values of the patients attending his clinic. Which of the following statements is a wrong interpretation of the correlation coefficient observed ?

- A) Since there is a high correlation, the magnitudes of both the measurements are likely to be close to each other
- B) A patient with a high level of systolic BP is also likely to have a high level of serum cholesterol
- C) A patient with a low level of systolic BP is also likely to have a low level of serum cholesterol
- D) About 80% of the variation in systolic blood pressure among his patients can be explained by their serum cholesterol values and vice a versa

Answer: A) Since there is a high correlation, the magnitudes of both the measurements are likely to be close to each other

Question 115: Which of the following viral infections is transmitted by tick ?

- A) Japanese encephalitis
- B) Dengue fever
- C) Kyasanur forest disease (KFD)
- D) Yellow fever

Answer: C) Kyasanur forest disease (KFD)

Question 268: The most common cancer, affecting Indian urban women in Delhi, Mumbai and Chennai, is ?

- A) Cervical Cancer
- B) Ovarian Cancer
- C) Breast Cancer
- D) Uterine Cancer

Answer: C) Breast Cancer

Subject - Dermatology

Question 57: All of the following drugs are effective in the treatment of pityriasis versicolor except ?

- A) Selenium sulphide
- B) Ketoconazole
- C) Griseofulvin
- D) Clotrimazole

Answer: C) Griseofulvin

Question 58: A 36-year-old factory worker developed itchy, annular scaly plaques in both groins. Application of a corticosteroid ointment led to temporary relief but the plaques continued to extend at the periphery. The most likely diagnosis is ?

- A) Erythema annulare centrifugum
- B) Granuloma annulare
- C) Annular lichen planus
- D) Tinea cruris

Answer: D) Tinea cruris

Question 59: A 16-year-old boy presented with asymptomatic, multiple, erythematous, annular lesions with a collarette of scales at the periphery of the lesions present on the trunk. The most likely diagnosis is ?

- A) Pityriasis versicolor
- B) Pityriasis alba
- C) Pityriasis rosea
- D) Pityriasis rubra pilaris

Answer: C) Pityriasis rosea

Question 60: The only definite indication for giving systemic corticosteroids in pustular psoriasis is ?

- A) Psoriatic erythroderma with pregnancy
- B) Psoriasis in a patient with alcoholic cirrhosis
- C) Moderate arthritis
- D) Extensive lesions

Answer: D) Extensive lesions

Question 61: A 40-year-old woman presents with a 2 year history of erythematous papulopustular lesions on the convexities of the face. There is a background of erythema and telangiectasia. The most likely diagnosis in the patient is ?

- A) Acne vulgaris
- B) Rosacea
- C) Systemic lupus erythematosus
- D) Polymorphic light eruption

Answer: B) Rosacea

Question 62: An 8-year-old boy from Bihar presents with a 6 months history of an illdefined hypopigmented slightly atrophic macule on the face. The most likely diagnosis is ?

- A) Pityriasis alba
- B) Indeterminate leprosy
- C) Morphoea
- D) Calcium deficiency

Answer: B) Indeterminate leprosy

Question 63: A 27-year old sexually active male develops a vesiculobullous lesion on the glans soon after taking tablet paracetamol for fever. The lesion healed with hyperpigmentation. The most likely diagnosis is ?

- A) Behcet's syndrome
- B) Herpes genitalis
- C) Fixed drug eruption
- D) Pemphigus vulgaris

Answer: C) Fixed drug eruption

Subject - Forensic Medicine & Toxicology

Question 64: In a firearm injury, there is burning, blackening, tattooing around the wound, along with cherry red colour of the surrounding tissues and is cruciate in shape, the injury is ?

- A) Close shot entry
- B) Close contact exit
- C) Contact shot entry
- D) Distant shot entry

Answer: C) Contact shot entry

Question 65: In methyl alcohol poisoning there is CNS depression, cardiac depression and optic nerve atrophy. These effects are produced due to ?

- A) Formaldehyde and formic acid
- B) Acetaldehyde
- C) Pyridine
- D) Acetic acid

Answer: A) Formaldehyde and formic acid

Question 66: In chronic arsenic poisoning the following samples can be sent for laboratory examination, except ?

- A) Nail clippings
- B) Hair samples
- C) Bone biopsy
- D) Blood sample

Answer: D) Blood sample

Question 67: Which of the following statements is not correct regarding diatom ?

- A) Diatoms are aquatic unicellular plant
- B) Diatoms has an extracellular coat composed of magnesium
- C) Acid digestion technique is used to extract diatoms
- D) Presence of diatoms in the femoral bone marrow is an indication of antemortem inhalation of water

Answer: B) Diatoms has an extracellular coat composed of magnesium

Question 68: In India, magistrate inquest is done in the following cases, except ?

- A) Exhumation cases
- B) Dowry deaths within 5 years of marriage
- C) Murder cases
- D) Death of a person in police custody

Answer: C) Murder cases

Question 69: At autopsy, the cyanide poisoning case will show the following features, except ?

- A) Characteristic bitter lemon smell
- B) Congested organs
- C) The skin may be pinkish or cherry red in colour
- D) Erosion and haemorrhages in oesophagus and stomach

Answer: A) Characteristic bitter lemon smell

Question 70: The most reliable criteria in Gustafson's method of identification is ?

- A) Cementum apposition
- B) Transparency of root
- C) Attrition
- D) Root resorption

Answer: B) Transparency of root

Question 71: The minimum age at which an individual is responsible for his criminal act is ?

- A) 7 years
- B) 12 years
- C) 16 years
- D) 21 years

Answer: A) 7 years

Question 72: The most reliable method of identification of an individual is ?

- A) Dactylography
- B) Scars
- C) Anthropometry
- D) Handwriting

Answer: A) Dactylography

Question 73: The most common pattern of fingerprint is ?

- A) Arch
- B) Loop
- C) Whorl

D) Composite

Answer: B) Loop

Subject - Gynaecology

Question 43: The most common side effect of IUD insertion is ?

A) Bleeding

B) Pain

C) Pelvic infection

D) Ectopic pregnancy

Answer: A) Bleeding

Question 75: All of the following appear to decrease hot flushes in menopausal women except ?

A) Androgens

B) Raloxifene

C) Isoflavones

D) Tibolone

Answer: B) Raloxifene

Question 77: The most common cause of secondary amenorrhoea in India is ?

A) Endometrial tuberculosis

B) Premature ovarian failure

C) Polycystic ovarian syndrome

D) Sheehan's syndrome

Answer: A) Endometrial tuberculosis

Question 79: Which one of the following is the ideal contraceptive for a patient with heart disease ?

- A) IUCD
- B) Depoprovera
- C) Diaphragm
- D) Oral contraceptive pills

Answer: C) Diaphragm

Question 80: The karyotype of a Patient with Androgen Insensitivity Syndrome is ?

- A) 46XX
- B) 46XY
- C) 47XXY
- D) 45X0

Answer: B) 46XY

Question 286: Patients of Rectovaginal fistula should be initially treated with ?

- A) Colostomy
- B) Primary repair
- C) Colporrhaphy
- D) Anterior resection

Answer: B) Primary repair

Subject - Medicine

Question 32: Antibiotic treatment of choice for treating cholera in an adult is a single dose of ?

- A) Tetracycline
- B) Co-trimoxazole
- C) Doxycycline
- D) Furazolidone

Answer: C) Doxycycline

Question 44: For the treatment of case of class III dog bite, all of the following are correct except ?

- A) Give Immunoglobins for positive immunity
- B) Give ARV
- C) Immediately stitch wound under antibiotic coverage
- D) Immediately wash wound with soap and water

Answer: C) Immediately stitch wound under antibiotic coverage

Question 81: A 59 year old man with severe myxomatous mitral regurgitation is asymptomatic, with a left ventricular ejection fraction of 45% and an end-systolic diameter index of 2.9 cm/m². The most appropriate treatment is ?

- A) Mitral valve repair or replacement
- B) No treatment
- C) ACE inhibitor therapy
- D) Digoxin and diuretic therapy

Answer: A) Mitral valve repair or replacement

Question 82: Palpable purpura could occur in the following conditions, except ?

- A) Thrombocytopenia
- B) Small-vessel vasculitis
- C) Disseminated gonococcal infection
- D) Acute meningococcemia

Answer: A) Thrombocytopenia

Question 83: A 30 years old male patient presents with complaints of weakness in right upper and both lower limbs for last 4 months. He developed digital infarcts involving 2nd and 3rd fingers on right side and 5th finger on left side. On examination, BP was 160/140 mm Hg, all peripheral pulses were palpable and there was asymmetrical neuropathy. Investigations showed a Hb-12gm, TLC-12000Cu mm, Platelets 4,30,000, ESR-49 mm. Urine examination showed proteinuria and RBC 10 - 15 /hpf with no casts. Which of the following is the most likely diagnosis ?

- A) Polyarteritis nodosa
- B) Systemic lupus erythematosus
- C) Wegener's granulomatosis
- D) Mixed cryoglobulinemia

Answer: A) Polyarteritis nodosa

Question 84: Which of the following infestation leads to malabsorption ?

- A) Giardia lamblia
- B) Ascaris lumbricoides
- C) Necator americana
- D) Ancylostoma duodenale

Answer: A) Giardia lamblia

Question 85: All of the following can cause osteoporosis, except ?

- A) Hyperparathyroidism
- B) Steroid use
- C) Fluorosis
- D) Thyrotoxicosis

Answer: C) Fluorosis

Question 86: Serum angiotensin converting enzyme may be raised in all of the following except ?

- A) Sarcoidosis
- B) Silicosis
- C) Berylliosis
- D) Bronchogenic carcinoma

Answer: D) Bronchogenic carcinoma

Question 87: Hypercalcemia associated with malignancy is most often mediated by ?

- A) Parathyroid hormone (PTH)
- B) Parathyroid hormone related protein (PTHrP)
- C) Interleukin - 6 (IL-6)
- D) Calcitonin

Answer: B) Parathyroid hormone related protein (PTHrP)

Question 88: All of the following are the causes of relative polycythemias except ?

- A) Dehydration
- B) Dengue haemorrhagic fever

C) Gaisbock syndrome

D) High altitude

Answer: D) High altitude

Question 89: All of the following may cause ST segment elevation on EKG, except ?

A) Early repolarization variant

B) Constrictive pericarditis

C) Ventricular aneurysm

D) Prinzmetal angina

Answer: B) Constrictive pericarditis

Question 90: 5' - Nucleotidase activity is increased by ?

A) Bone diseases

B) Prostate cancer

C) Chronic renal failure

D) Cholestatic disorders

Answer: D) Cholestatic disorders

Question 91: Normal CSF glucose level in a normoglycemic adult is ?

A) 20 - 40 mg/dL

B) 40 - 70 mg/dL

C) 70 - 90 mg/dL

D) 90 - 110 mg/dL

Answer: B) 40 - 70 mg/dL

Question 92: Bart's hydrops fetalis is lethal because ?

- A) Hb Bart's cannot bind oxygen
- B) The excess Hb^- - globin form insoluble precipitates
- C) Hb Bart's cannot release oxygen to fetal tissues
- D) Microcytic red cells become trapped in the placenta

Answer: C) Hb Bart's cannot release oxygen to fetal tissues

Question 93: Cluster headache is characterized by all, except ?

- A) Affects predominantly females
- B) Unilateral headache
- C) Onset typically in 20 - 50 years of life
- D) Associated with conjunctival congestion

Answer: A) Affects predominantly females

Question 94: The most sensitive test for the diagnosis of myasthenia gravis is ?

- A) Elevated serum Ach-receptor binding antibodies
- B) Repetitive nerve stimulation test
- C) Positive edrophonium test
- D) Measurement of jitter by single fibre electromyography

Answer:

Question 95: Vitamin B12 deficiency can give rise to all of the following except ?

- A) Myelopathy

- B) Optic atrophy
- C) Peripheral neuropathy
- D) Myopathy

Answer: D) Myopathy

Question 96: EEG is usually abnormal in all of the following except ?

- A) Subacute sclerosing panencephalitis
- B) Locked - in state
- C) Creutzfeldt - Jakob disease
- D) Hepatic encephalopathy

Answer: B) Locked - in state

Question 97: All of the following are neurologic channelopathies except ?

- A) Hypokalemic periodic paralysis
- B) Episodic ataxia type I
- C) Familial hemiplegic migraine
- D) Spinocerebellar ataxia I

Answer: D) Spinocerebellar ataxia I

Question 98: All of the following conditions are known to cause diabetes insipidus except ?

- A) Multiple sclerosis
- B) Head injury
- C) Histiocytosis
- D) Viral encephalitis

Answer: A) Multiple sclerosis

Question 99: Antipsychotic drug-induced parkinsonism is treated by ?

- A) Anticholinergics
- B) Levodopa
- C) Selegiline
- D) Amantadine

Answer: A) Anticholinergics

Question 100: Which one of the following is used in therapy of Toxoplasmosis ?

- A) Artensenuate
- B) Thiacetazone
- C) Ciprofloxacin
- D) Pyrimethamine

Answer: D) Pyrimethamine

Question 101: Which of the following drugs is useful in prophylaxis of migraine ?

- A) Propranolol
- B) Sumatriptan
- C) Domperidone
- D) Ergotamine

Answer: A) Propranolol

Question 102: The most common pathogens responsible for nosocomial pneumonias in the ICU are ?

A) Gram positive organisms

B) Gram negative organisms

C) Mycoplasma

D) Virus infections

Answer: B) Gram negative organisms

Question 103: A 50 year old man, an alcoholic and a smoker presents with a 3 hour history of severe retrosternal chest pain and increasing shortness of breath. He started having this pain while eating, which was constant and radiated to the back and interscapular region. He was a known hypertensive. On examination, he was cold and clammy with a heart rate of 130/min, and a BP of 80/40 mm Hg. JVP was normal. All peripheral pulses were present and equal. Breath sounds were decreased at the left lung base and chest x-ray showed left pleural effusion. Which one of the following is the most likely diagnosis ?

A) Acute aortic dissection

B) Acute myocardial infarction

C) Rupture of the esophagus

D) Acute pulmonary embolism

Answer: A) Acute aortic dissection

Question 104: Which of the following is a cause of reversible dementia ?

A) Subacute combined degeneration

B) Pick's disease

C) Creutzfeldt - Jakob disease

D) Alzheimer's disease

Answer: A) Subacute combined degeneration

Question 107: The following bacteria are most often associated with acute neonatal meningitis except ?

- A) Escherichia coli
- B) Streptococcus agalactiae
- C) Neisseria meningitidis
- D) Listeria monocytogenes

Answer: C) Neisseria meningitidis

Question 116: Atypical pneumonia can be caused by the following microbial agents except ?

- A) Mycoplasma pneumoniae
- B) Legionella pneumophila
- C) Human Corona virus
- D) Klebsiella pneumoniae

Answer: D) Klebsiella pneumoniae

Question 120: The most common organism amongst the following that causes acute meningitis in an AIDS patient is ?

- A) Streptococcus pneumoniae
- B) Streptococcus agalactiae
- C) Cryptococcus neoformans
- D) Listeria monocytogenes

Answer: C) Cryptococcus neoformans

Question 121: A bacterial disease that has been associated with the 3

- A) Leptospirosis
- B) Plague
- C) Melioidosis

D) Rodent-bite fever

Answer: A) Leptospirosis

Question 238: Which one of the following is true of adrenal suppression due to steroid therapy ?

- A) It is not associated with atrophy of the adrenal glands
- B) It does not occur in patients receiving inhaled steroids
- C) It should be expected in anyone receiving > 5mg, Prednisolone daily
- D) Following cessation, the stress response normalises after 8 weeks

Answer: C) It should be expected in anyone receiving > 5mg, Prednisolone daily

Question 262: Pancreatitis, pituitary tumor and phaeochromocytoma may be associated with ?

- A) Medullary carcinoma of thyroid
- B) Papillary carcinoma of thyroid
- C) Anaplastic carcinoma of thyroid
- D) Follicular carcinoma of thyroid

Answer: A) Medullary carcinoma of thyroid

Subject - Microbiology

Question 105: With reference to infections with Escherichia coli the following are true except ?

- A) Enteropathogenic E.coli is associated with Persistent diarrhoea
- B) Enterohemorrhagic E.coli can cause haemolytic uraemic syndrome
- C) Enteroinvasive E.coli produces a disease similar to salmonellosis

D) Enterotoxigenic E.coli is a common cause of traveler's diarrhoea

Answer: C) Enteroinvasive E.coli produces a disease similar to salmonellosis

Question 106: The following statements are true regarding melioidosis except ?

- A) It is caused by Burkholderia mallei
- B) The agent is a gram negative aerobic bacteria
- C) Bipolar staining of the aetiological agent is seen with methylene blue stain
- D) The most common form of melioidosis is pulmonary infection

Answer: A) It is caused by Burkholderia mallei

Question 108: All of the following Vibrio sp. are halophilic, except ?

- A) V.cholerae
- B) V.parahaemolyticus
- C) V.alginolyticus
- D) V.fluvialis

Answer: A) V.cholerae

Question 109: All of the following organisms are known to survive intracellularly except ?

- A) Neisseria meningitidis
- B) Salmonella typhi
- C) Streptococcus pyogenes
- D) Legionella pneumophila

Answer: C) Streptococcus pyogenes

Question 110: The capsule of Cryptococcus neoformans in a CSF sample is best seen by ?

- A) Grams stain
- B) India ink preparation
- C) Giemsa stain
- D) Methanamine - Silver stain

Answer: B) India ink preparation

Question 111: Viruses can be isolated from clinical samples by cultivation in the following except ?

- A) Tissue culture
- B) Embryonated eggs
- C) Animals
- D) Chemically defined media

Answer: D) Chemically defined media

Question 112: It is true regarding the normal microbial flora present on the skin and mucous membranes that ?

- A) It cannot be eradicated by antimicrobial agents
- B) It is absent in the stomach due to the acidic pH
- C) It establishes in the body only after the neonatal period
- D) The flora in the small bronchi is similar to that of the trachea

Answer: A) It cannot be eradicated by antimicrobial agents

Question 113: An army jawan posted in a remote forest area had fever and headache. His fever was 104°C and pulse was 70 per min. He had an

erythematous lesion of about 1 cm on the leg surrounded by small vesicles, along with generalized lymphadenopathy at the time of presentation to the referral hospital. His blood sample was collected to perform serology for the diagnosis of Rickettsial disease. Which one of the following results in Weil-felix reaction will be diagnostic in this clinical setting ?

- A) High OX-2
- B) High OX-19
- C) High OX-K
- D) High OX-19 and OX-2

Answer: C) High OX-K

Question 114: Adenosine deaminase (enzyme) deficiency is associated with ?

- A) Severe combined immunodeficiency (SCID)
- B) X-linked agammaglobulinemia
- C) Transient hypogammaglobulinemia of infancy
- D) Chronic granulomatous disease

Answer: A) Severe combined immunodeficiency (SCID)

Question 117: The serum concentration of which of the following human IgG subclass is maximum ?

- A) IgG1
- B) IgG2
- C) IgG3
- D) IgG4

Answer: A) IgG1

Question 118: Chlamydia trachomatis is associated with the following except ?

- A) Endemic trachoma
- B) Inclusion conjunctivitis
- C) Lymphogranuloma venereum
- D) Community acquired pneumonia

Answer: D) Community acquired pneumonia

Question 119: The following statements are true regarding Clostridium perfringens except ?

- A) It is the commonest cause of gas gangrene
- B) It is normally present in human faeces
- C) The principal toxin of C.perfringens is the alpha toxin
- D) Gas gangrene producing strains of C.perfringens produce heat resistant spores

Answer: D) Gas gangrene producing strains of C.perfringens produce heat resistant spores

Question 122: A child was diagnosed to be suffering from diarrhoea due to Camplyobacter jejuni. Which of the following will be the correct environmental conditions of incubation of the culture plates of the stool sample ?

- A) Temperature of 42°C and microaerophilic
- B) Temperature of 42°C and 10% carbondioxide
- C) Temperature of 37°C and microaerophilic
- D) Temperature of 37°C and 10% carbondioxide

Answer: A) Temperature of 42°C and microaerophilic

Question 123: Which one of the following statements is true regarding Chlamydia pneumoniae ?

- A) Fifteen serovars have been identified as human pathogens

- B) Mode of transmission is by the airborne bird excreta
- C) The cytoplasmic inclusions present in the sputum specimen are rich in glycogen
- D) The group specific antigen is responsible for the production of complement fixing antibodies

Answer: D) The group specific antigen is responsible for the production of complement fixing antibodies

Question 125: Virus mediated transfer of host DNA from one cell to another is known as ?

- A) Transduction
- B) Transformation
- C) Transcription
- D) Integration

Answer: A) Transduction

Question 126: HIV can be detected and confirmed by ?

- A) Polymerase Chain Reaction (PCR)
- B) Reverse Transcriptase - PCR
- C) Real Time PCR
- D) Mimic PCR

Answer: B) Reverse Transcriptase - PCR

Question 127: In the small intestine, cholera toxin acts by ?

- A) ADP-ribosylation of the G regulatory protein
- B) Inhibition of adenyl cyclase
- C) Activation of GTPase

D) Active absorption of NaCl

Answer: A) ADP-ribosylation of the G regulatory protein

Subject - Obstetrics

Question 74: Misoprostol has been found to be effective in all of the following except ?

- A) Missed Abortion
- B) Induction of labour
- C) Menorrhagia
- D) Prevention of post-partum hemorrhage (PPH)

Answer: C) Menorrhagia

Question 128: Use of one of the following vaccination is absolutely contraindicated in pregnancy ?

- A) Hepatitis-B
- B) Cholera
- C) Rabies
- D) Yellow fever

Answer: D) Yellow fever

Question 129: The highest incidence of Gestational Trophoblastic Disease is in ?

- A) Australia
- B) Asia
- C) North America

D) Western Europe

Answer: B) Asia

Question 130: The smallest diameter of the true pelvis is ?

A) Interspinous diameter

B) Diagnal conjugate

C) True conjugate

D) Intertuberous diameter

Answer: A) Interspinous diameter

Question 131: Infants of diabetic mother are likely to have the following cardiac anomaly ?

A) Coarctation of aorta

B) Fallot's tetralogy

C) Ebstein's anomaly

D) Transposition of great arteries

Answer: D) Transposition of great arteries

Question 132: The following drug is not helpful in the treatment of ectopic Pregnancy ?

A) Methotrexate

B) Misoprostol

C) Actinomycin-D

D) RU 486

Answer: B) Misoprostol

Question 133: The best period of gestation to carry out chorion villous biopsy for prenatal diagnosis is ?

- A) 8 - 10 weeks
- B) 10 - 12 weeks
- C) 12 - 14 weeks
- D) 14 - 16 weeks

Answer: B) 10 - 12 weeks

Question 134: Which one of the following biochemical parameters is the most sensitive to detect open spina bifida ?

- A) Maternal serum alpha fetoprotein
- B) Amniotic fluid alpha fetoprotein
- C) Amniotic fluid acetyl cholinesterase
- D) Amniotic fluid glucohexaminase

Answer: C) Amniotic fluid acetyl cholinesterase

Question 135: Risk of preterm delivery is increased if cervical length is ?

- A) 2.5 cm
- B) 3.0 cm
- C) 3.5 cm
- D) 4.0 cm

Answer: A) 2.5 cm

Question 136: All are the risk factors associated with macrosomia except ?

- A) Maternal obesity
- B) Prolonged Pregnancy

C) Previous large infant

D) Short stature

Answer: D) Short stature

Question 137: Which of the following statements is incorrect in relation to pregnant women with epilepsy ?

A) The rate of congenital malformation is increased in the offspring of women with epilepsy

B) Seizure frequency increases in approximately 70% of women

C) Breast feeding is safe with most anticonvulsants

D) Folic acid supplementation may reduce the risk of neural tube defect

Answer: B) Seizure frequency increases in approximately 70% of women

Question 138: All of the following are causes of intrauterine growth retardation except ?

A) Anemia

B) Pregnancy induced hypertension

C) Maternal heart disease

D) Gestational diabetes

Answer: D) Gestational diabetes

Question 139: The protective effects of breast milk are known to be associated with ?

A) IgM antibodies

B) Lysozyme

C) Mast cells

D) IgA antibodies

Answer: D) IgA antibodies

Subject - Oncology

Question 76: In a case of Dysgerminoma of ovary one of the following tumor markers is likely to be raised ?

- A) Serum HCG
- B) Serum alphafetoprotein
- C) Serum lactic dehydrogenase
- D) Serum inhibin

Answer: A) Serum HCG

Question 78: The most common pure germ cell tumor of the ovary is ?

- A) Choriocarcinoma
- B) Dysgerminoma
- C) Embryonal cell tumor
- D) Malignant Teratoma

Answer: B) Dysgerminoma

Question 166: In which one of the following perineural invasion in head and neck cancer is most commonly seen ?

- A) Adenocarcinoma
- B) Adenoid cystic carcinoma
- C) Basal Cell Adenoma
- D) Squamous cell carcinoma

Answer: B) Adenoid cystic carcinoma

Subject - Ophthalmology

Question 140: An 18 year old boy comes to the eye casualty with history of injury with a tennis ball. On examination there is no perforation but there is hyphaema. The most likely source of the blood is ?

- A) Iris vessels
- B) Circulus iridis major
- C) Circulus iridis minor
- D) Short posterior ciliary vessels

Answer: A) Iris vessels

Question 141: A 25 year old male gives history of sudden painless loss of vision in one eye for the past 2 weeks. There is not history of trauma. On examination the anterior segment is normal but there is no fundal glow. Which one of the following is the most likely cause ?

- A) Vitreous haemorrhage
- B) Optic atrophy
- C) Developmental cataract
- D) Acute attack of angle closure glaucoma

Answer: A) Vitreous haemorrhage

Question 142: The mother of a one and a half year old child gives history of a white reflex from one eye for the past 1 month. On computed tomography scan of the orbit there is calcification seen within the globe. The most likely diagnosis is ?

- A) Congenital cataract
- B) Retinoblastoma
- C) Endophthalmitis

D) Coats disease

Answer: B) Retinoblastoma

Question 143: Enlarged corneal nerves may be seen in all of the following except ?

A) Keratoconus

B) Herpes simplex keratitis

C) Leprosy

D) Neurofibromatosis

Answer: B) Herpes simplex keratitis

Question 144: Under the WHO 'Vision 2020' programme, the 'SAFE' strategy is adopted for which of the following diseases ?

A) Trachoma

B) Glaucoma

C) Diabetic retinopathy

D) Onchocerciasis

Answer: A) Trachoma

Question 145: Horner's syndrome is characterized by all of the following except ?

A) Miosis

B) Enophthalmos

C) Ptosis

D) Cycloplegia

Answer: D) Cycloplegia

Question 146: The superior oblique muscle is supplied by ?

- A) 3rd cranial nerve
- B) 4th cranial nerve
- C) 5th cranial nerve
- D) 6th cranial nerve

Answer: B) 4th cranial nerve

Question 147: Which of the following statement is true regarding Acanthamoeba keratitis ?

- A) For the isolation of the causative agent, corneal scraping should be cultured on a nutrient agar plate
- B) The causative agent, Acanthamoeba is a helminth whose normal habitat is soil
- C) Keratitis due to Acanthamoeba is not seen in the immunocompromised host
- D) Acanthamoeba does not depend upon a human host for the completion of its life-cycle

Answer: D) Acanthamoeba does not depend upon a human host for the completion of its life-cycle

Question 148: A 30 year old man has 6/5 vision each eye, unaided. His cycloplegic retinoscopy is +1.0 D sph. at 1 metre distance. His complaints are blurring of newsprint at 30 cm, that clears up in about two minutes. The most probable diagnosis is ?

- A) Hypermetropia
- B) Presbyopia
- C) Accomodative inertia
- D) Cycloplegia

Answer: C) Accomodative inertia

Question 149: Contact lens wear is proven to have deleterious effects on the corneal physiology. Which of the following statements is incorrect in connection with contact lens wear ?

- A) The level of glucose availability in the corneal epithelium is reduced
- B) There is a reduction in hemidesmosome density
- C) There is increased production of CO₂ in the epithelium
- D) There is a reduction in glucose utilization by corneal epithelium

Answer: A) The level of glucose availability in the corneal epithelium is reduced

Subject - Orthopaedics

Question 150: In Klippel-Feil syndrome, the patient has all of the following clinical features except ?

- A) Low hair line
- B) Bilateral Neck webbing
- C) Bilateral shortness of sterno mastoid muscles
- D) Gross limitations of neck movements

Answer: C) Bilateral shortness of sterno mastoid muscles

(Single Best Answer) Question 151: The most common sequelae of tuberculous spondylitis in an adolescent is ?

- A) Fibrous Ankylosis
- B) Bony-Ankylosis
- C) Pathological dislocation
- D) Chronic osteomyelitis

Answer: B) Bony-Ankylosis

Question 152: In Radionuclide imaging the most useful radiopharmaceutical for skeletal imaging is ?

- A) Gallium 67 (67Ga)
- B) Technetium-sulphur-colloid ($^{99m}\text{Tc-Sc}$)
- C) Technetium-99m (^{99m}Tc)
- D) Technetium-99m linked to Methylene disphosphonate ($^{99m}\text{Tc-MDP}$)

Answer: D) Technetium-99m linked to Methylene disphosphonate ($^{99m}\text{Tc-MDP}$)

Question 153: Heberden's arthropathy affects ?

- A) Lumbar spine
- B) Symmetrically large joints
- C) Sacroiliac joints
- D) Distal interphalangeal joints

Answer: D) Distal interphalangeal joints

Question 154: Subtrochanteric fractures of femur can be treated by all of the following methods except ?

- A) Skeletal traction on Thomas' splint
- B) Smith Petersen Nail
- C) Condylar blade plate
- D) Ender's nail

Answer: B) Smith Petersen Nail

Question 155: All of the following are true about fracture of the atlas vertebra, except ?

- A) Jefferson fracture is the most common type

- B) Quadriplegia is seen in 80% cases
- C) Atlantooccipital fusion may sometimes be needed
- D) CT Scans should be done for diagnosis

Answer: B) Quadriplegia is seen in 80% cases

Question 156: A 30 year old man had road traffic accident and sustained fracture of femur. Two days later he developed sudden breathlessness. The most probable cause can be ?

- A) Pneumonia
- B) Congestive heart failure
- C) Bronchial asthma
- D) Fat Embolism

Answer: D) Fat Embolism

Question 157: A 45 year old was given steroids after renal transplant. After 2 years he had difficulty in walking and pain in both hips. Which one of the following is most likely cause ?

- A) Primary Osteoarthritis
- B) Avascular necrosis
- C) Tuberculosis
- D) Aluminium Toxicity

Answer: B) Avascular necrosis

Question 158: The gold standard for the diagnosis of osteoporosis is ?

- A) Dual energy X-ray absorptiometry
- B) Single energy X-ray absorptiometry
- C) Ultrasound

D) Quantitative computed tomography

Answer: A) Dual energy X-ray absorptiometry

Question 159: Which one of the following is the investigation of choice for evaluation of suspected Perthes' disease ?

A) Plain X-Ray

B) Ultrasonography (US)

C) Computed Tomography (CT)

D) Magnetic Resonance Imaging (MRI)

Answer: D) Magnetic Resonance Imaging (MRI)

Question 160: All of the following areas are commonly involved sites in pelvic fracture except ?

A) Pubic rami

B) Alae of ileum

C) Acetabula

D) Ischial tuberosities

Answer: D) Ischial tuberosities

Question 161: Osteoclasts are inhibited by ?

A) Parathyroid hormone

B) Calcitonin

C) 1,25-dihydroxycholecalciferol

D) Tumor necrosis factor

Answer: B) Calcitonin

Question 287: A young woman met with an accident and had mild quadriplegia. Her lateral X-ray cervical spine revealed C5-C6 fracture dislocation. Which of the following is the best line of management ?

- A) Immediate anterior decompression
- B) Cervical traction followed by instrument fixation
- C) Hard cervical collar and bed rest
- D) Cervical Laminectomy

Answer: B) Cervical traction followed by instrument fixation

Subject - Otorhinolaryngology

Question 162: All are true for Gradenigo's syndrome except ?

- A) It is associated with conductive hearing loss
- B) It is caused by an abscess in the petrous apex
- C) It leads to involvement of the Cranial nerves V and VI
- D) It is characterized by retro-orbital pain

Answer: A) It is associated with conductive hearing loss

Question 163: The most common and earliest manifestation of carcinoma of the glottis is ?

- A) Hoarseness
- B) Haemoptysis
- C) Cervical lymph nodes
- D) Stridor

Answer: A) Hoarseness

Question 165: Androphonia can be corrected by doing ?

- A) Type 1 Thyroplasty
- B) Type 2 Thyroplasty
- C) Type 3 Thyroplasty
- D) Type 4 Thyroplasty

Answer: D) Type 4 Thyroplasty

Question 167: Use of seigel's speculum during examination of the ear provides all except ?

- A) Magnification
- B) Assessment of movement of the tympanic membrane
- C) Removal of foreign body from the ear
- D) As applicator for the powdered antibiotic of ear

Answer: C) Removal of foreign body from the ear

Subject - Paediatrics

Question 33: All of the following statements are true about Congenital Rubella except ?

- A) It is diagnosed when the infant has IgM antibodies at birth
- B) It is diagnosed when IgG antibodies persist for more than 6 months
- C) Most common congenital defects are deafness, cardiac malformations and cataract
- D) Infection after 16 weeks of gestation results in major congenital defects

Answer: D) Infection after 16 weeks of gestation results in major congenital defects

Question 168: Blood specimen for neonatal thyroid screening is obtained on ?

- A) Cord blood
- B) 24 hours after birth
- C) 48 hours after birth
- D) 72 hours after birth

Answer: A) Cord blood

Question 169: A child with recurrent urinary tract infections is most likely to show ?

- A) Posterior urethral valves
- B) Vesicoureteric reflux
- C) Neurogenic bladder
- D) Renal and ureteric calculi

Answer: B) Vesicoureteric reflux

Question 170: The appropriate approach to a neonate presenting with vaginal bleeding on day 4 of life is ?

- A) Administration of Vitamin K
- B) Investigation for bleeding disorder
- C) No specific therapy
- D) Administration of 10 ml/kg of fresh frozen plasma over 4 hours

Answer: C) No specific therapy

Question 171: Which one of the following drugs is used for fetal therapy of congenital adrenal hyperplasia ?

- A) Hydrocortisone

B) Prednisolone

C) Fludrocortisone

D) Dexamethasone

Answer: D) Dexamethasone

Question 172: The coagulation profile in a 13-year old girl with Menorrhagia having von Willebrands disease is ?

A) Isolated prolonged PTT with a normal PT

B) Isolated prolonged PT with a normal PTT

C) Prolongation of both PT and PTT

D) Prolongation of thrombin time

Answer: A) Isolated prolonged PTT with a normal PT

Question 173: All of the following are true about manifestations of vitamin E deficiency, except ?

A) Hemolytic anemia

B) Posterior column abnormalities

C) Cerebellar ataxia

D) Autonomic dysfunction

Answer: D) Autonomic dysfunction

Question 176: All of the following therapies may be required in a 1-hour-old infant with severe birth asphyxia except ?

A) Glucose

B) Dexamethasone

C) Calcium gluconate

D) Normal Saline

Answer: B) Dexamethasone

Question 177: The most common cause of renal scarring in a 3 year old child is ?

A) Trauma

B) Tuberculosis

C) Vesicoureteral reflux induced pyelonephritis

D) Interstitial nephritis

Answer: C) Vesicoureteral reflux induced pyelonephritis

Question 178: Which one of the following is the common cause of congenital hydrocephalus is ?

A) Craniosynostosis

B) Intra uterine meningitis

C) Aqueductal stenosis

D) Malformations of great vein of Galen

Answer: C) Aqueductal stenosis

Question 179: In a child, non-functioning kidney is best diagnosed by ?

A) Ultrasonography

B) IVU

C) DTPA renogram

D) Creatinine clearance

Answer: C) DTPA renogram

Question 180: The most common malignant neoplasm of infancy is ?

- A) Malignant teratoma
- B) Neuroblastoma
- C) Wilm's tumor
- D) Hepatoblastoma

Answer: B) Neuroblastoma

Question 181: The most common presentation of a child with Wilm's tumor is ?

- A) An asymptomatic abdominal mass
- B) Haematuria
- C) Hypertension
- D) Hemoptysis due to pulmonary secondary

Answer: A) An asymptomatic abdominal mass

Question 182: Eisenmenger syndrome is characterized by all except ?

- A) Return of left ventricle & right ventricle to normal size
- B) Pulmonary veins not distended
- C) Pruning of peripheral pulmonary arteries
- D) Dilatation of central pulmonary arteries

Answer: A) Return of left ventricle & right ventricle to normal size

Question 183: The most common site of leak in CSF rhinorrhoea is ?

- A) Sphenoid sinus
- B) Frontal sinus
- C) Cribiform plate

D) Tegmen tympani

Answer: C) Cribiform plate

Question 184: Which of the following is the most common renal cystic disease in infants is ?

A) Polycystic Kidney

B) Simple renal cyst

C) Unilateral renal dysplasia

D) Calyceal cyst

Answer: C) Unilateral renal dysplasia

Question 185: The most common type of total anomalous pulmonary venous connection is ?

A) Supracardiac

B) Infracardiac

C) Mixed

D) Cardiac

Answer: A) Supracardiac

Question 186: Diagnosis of beta Thalassemia is established by ?

A) NESTROFT Test

B) HbA1 C estimation

C) Hb electrophoresis

D) Target cells in peripheral smear

Answer: C) Hb electrophoresis

Subject - Parasitology

Question 124: Which of the following is not a neuroparasite ?

- A) *Taenia solium*
- B) *Acanthamoeba*
- C) *Naegleria*
- D) *Trichinella spiralis*

Answer: D) *Trichinella spiralis*

Subject - Pathology

Question 174: Differential expression of same gene depending on parent of origin is referred to as ?

- A) Genomic imprinting
- B) Mosaicism
- C) Anticipation
- D) Nonpenetrance

Answer: A) Genomic imprinting

Question 175: The chances of having an unaffected baby, when both parents have achondroplasia, are ?

- A) 0 %
- B) 25 %
- C) 50 %
- D) 100 %

Answer: B) 25 %

Question 187: Study the following carefully:

$\neg^\circ\%$ $\sqrt{a}\%$
 $\%, \%\%$
 $\%\%, \%\%, \%\%, \%\%$
 $\neg^\circ\% \quad \sqrt{a}\% \quad \neg^\circ\% \quad \neg^\dagger\% \quad \sqrt{a}\% \quad \neg^\circ\%$
 $\%\%, \%\%, \%\%, \%\%$ $\%, \%\%$
 $\neg^\dagger\% \quad \neg^\dagger\% \quad \neg^\dagger\% \quad \neg^\circ\% \quad \sqrt{a}\% \quad \sqrt{a}\%$

Read the pedigree. Inheritance pattern of the disease in the family is ?

- A) Autosomal recessive type
- B) Autosomal dominant type
- C) X Linked dominant type
- D) X Linked recessive type

Answer: D) X Linked recessive type

Question 188: An example of a tumor suppressor gene is ?

- A) myc
- B) fos
- C) ras
- D) Rb

Answer: D) Rb

Question 189: Which one of the following conditions commonly predisposes to

colonic carcinoma ?

- A) Ulcerative colitis
- B) Crohn's disease
- C) Diverticular disease
- D) Ischaemic colitis

Answer: A) Ulcerative colitis

Question 190: Fibrinoid necrosis may be observed in all of the following except ?

- A) Malignant hypertension
- B) Polyarteritis nodosa
- C) Diabetic glomerulosclerosis
- D) Aschoff's nodule

Answer: C) Diabetic glomerulosclerosis

Question 191: All of the following statements are true regarding reversible cell injury, except ?

- A) Formation of amorphous densities in the mitochondrial matrix
- B) Diminished generation of adenosine triphosphate (ATP)
- C) Formation of blebs in the plasma membrane
- D) Detachment of ribosomes from the granular endoplasmic reticulum

Answer: A) Formation of amorphous densities in the mitochondrial matrix

Question 192: Which of the following statements pertaining to leukemia is correct ?

- A) Blasts of acute myeloid leukemia are typically sudan black negative
- B) Blasts of acute lymphoblastic leukemia are typically myeloperoxidase

positive

- C) Low leucocyte alkaline phosphatase score is characteristically seen in blastic phase of chronic myeloid leukemia
- D) Tartarate resistant acid phosphatase positivity is typically seen in hairy cell leukemia

Answer: D) Tartarate resistant acid phosphatase positivity is typically seen in hairy cell leukemia

Question 193: In which of the following conditions bilateral contracted kidneys are characteristically seen ?

- A) Amyloidosis
- B) Diabetes mellitus
- C) Rapidly progressive (crescentic) glomerulonephritis
- D) Benign nephrosclerosis

Answer: D) Benign nephrosclerosis

Question 194: All of the following CSF findings are present in tuberculous meningitis, except ?

- A) Raised protein levels
- B) Low chloride levels
- C) Cob web formation
- D) Raised sugar levels

Answer: D) Raised sugar levels

Question 195: All of the following vascular changes are observed in acute inflammation, except ?

- A) Vasodilation
- B) Stasis of blood

C) Increased vascular permeability

D) Decreased hydrostatic pressure

Answer: D) Decreased hydrostatic pressure

Question 196: The subtype of Hodgkin's disease, which is histogenetically distinct from all the other subtypes, is ?

A) Lymphocyte predominant

B) Nodular sclerosis

C) Mixed cellularity

D) Lymphocyte depleted

Answer: A) Lymphocyte predominant

Question 197: In apoptosis, Apaf-1 is activated by release of which of the following substances from the mitochondria ?

A) Bcl-2

B) Bax

C) Bcl-XL

D) Cytochrome C

Answer: D) Cytochrome C

Question 198: Which type of amyloidosis is caused by mutation of the transthyretin protein ?

A) Familial Mediterranean fever

B) Familial amyloidotic polyneuropathy

C) Dialysis associated amyloidosis

D) Prion protein associated amyloidosis

Answer: B) Familial amyloidotic polyneuropathy

Question 199: In familial Mediterranean fever, the gene encoding the following protein undergoes mutation ?

- A) Pyrin
- B) Perforin
- C) Atrial natriuretic factor
- D) Immunoglobulin light chain

Answer: A) Pyrin

Question 200: Which of the following statements is not true ?

- A) Patients with IgD myeloma may present with no evident M-spike on serum electrophoresis
- B) A diagnosis of plasma cell leukemia can be made if circulating peripheral blood plasmablasts comprise 14% of peripheral blood white cells in a patient with white blood cell count of $11 \times 10^9 /L$ and platelet count of $88 \times 10^9 /L$
- C) In smoldering myeloma plasma cells constitute 10 - 30% of total bone marrow cellularity
- D) In a patient with multiple myeloma, a monoclonal light chain may be detected in both serum and urine

Answer: B) A diagnosis of plasma cell leukemia can be made if circulating peripheral blood plasmablasts comprise 14% of peripheral blood white cells in a patient with white blood cell count of $11 \times 10^9 /L$ and platelet count of $88 \times 10^9 /L$

Question 201: In-situ DNA nick end labeling can quantitate ?

- A) Fraction of cells in apoptotic pathways
- B) Fraction of cells in S phase
- C) p53 gene product
- D) bcr/abl gene

Answer: A) Fraction of cells in apoptotic pathways

Question 202: Which one of the following serum levels would help in distinguishing an acute liver disease from chronic liver disease ?

- A) Aminotransferase
- B) Alkaline phosphatase
- C) Bilirubin
- D) Albumin

Answer: D) Albumin

Question 203: Which one of the following stains is specific for Amyloid ?

- A) Periodic Acid Schiff (PAS)
- B) Alzerian red
- C) Congo red
- D) Von - Kossa

Answer: C) Congo red

Question 204: Which one of the following diseases characteristically causes fatty change in liver ?

- A) Hepatitis B virus infection
- B) Wilson's disease
- C) Hepatitis C virus infection
- D) Chronic alcoholism

Answer: D) Chronic alcoholism

Question 205: A 48 year old woman was admitted with a history of weakness

for two months. On examination, cervical lymph nodes were found enlarged and spleen was palpable 2 cm below the costal margin. Her hemoglobin was 10.5 g/dl, platelet count $237 \times 10^9 / L$ and total leukocyte count $40 \times 10^9 / L$, which included 80% mature lymphoid cells with coarse clumped chromatin. Bone marrow revealed a nodular lymphoid infiltrate. The peripheral blood lymphoid cells were positive for CD19, CD5, CD20, CD23 and were negative for CD79B and FMC-7. The histopathological examination of the lymph node in this patient will most likely exhibit effacement of lymph node architecture by ?

- A) A pseudofollicular pattern with proliferation centers
- B) A monomorphic lymphoid proliferation with a nodular pattern
- C) A predominantly follicular pattern
- D) A diffuse proliferation of medium to large lymphoid cells with high mitotic rate

Answer: D) A diffuse proliferation of medium to large lymphoid cells with high mitotic rate

Question 206: The most common leukocytoclastic vasculitis affecting children is ?

- A) Takayasu disease
- B) Mucocutaneous lymph node syndrome (Kawasaki disease)
- C) Henoch Schonlein purpura
- D) Polyarteritis nodosa

Answer: C) Henoch Schonlein purpura

Question 207: A four year old boy was admitted with a history of abdominal pain and fever for two months, maculopapular rash for ten days, and dry cough, dyspnea and wheezing for three days. On examination, liver and spleen were enlarged 4 cm and 3 cm respectively below the costal margins. His hemoglobin was 10.0 g/dl, platelet count $37 \times 10^9 / L$ and total leukocyte count $70 \times 10^9 / L$, which included 80% eosinophils. Bone marrow examination revealed a cellular marrow comprising 45% blasts and 34% eosinophils and eosinophilic precursors. The blasts stained negative for myeloperoxidase and non-specific esterase/ and were positive for CD 19, CD 10, CD22 and CD20. Which one of the following statements in not true about this disease ?

- A) Eosinophils are not part of the neoplastic clone
- B) t(5; 14) rearrangement may be detected in blasts
- C) Peripheral blood eosinophilia may normalize with chemotherapy
- D) Inv (16) is often detected in the blasts and the eosinophils

Answer: D) Inv (16) is often detected in the blasts and the eosinophils

Question 208: Kidney biopsy from a child with hemolytic uremic syndrome characteristically most likely presents features of ?

- A) Thrombotic microangiopathy
- B) Proliferative glomerulonephritis
- C) Focal segmental glomerulosclerosis
- D) Minimal change disease

Answer: A) Thrombotic microangiopathy

Question 209: The classification proposed by the International Lymphoma Study Group for non-Hodgkin's lymphoma is known as ?

- A) Kiel Classification
- B) REAL Classification
- C) WHO Classification
- D) Rappaport Classification

Answer: B) REAL Classification

Question 210: One of the intestinal enzymes that is generally deficient in children following an attack of severe infectious enteritis is ?

- A) Lactase
- B) Trypsin

C) Lipase

D) Amylase

Answer: A) Lactase

Question 211: A new born presented with bloated abdomen shortly after birth with passing of less meconium. A full-thickness biopsy of the rectum was carried out. Which one of the following is most likely to be present ?

A) Fibrosis of submucosa

B) Hyalinisation of the muscular coat

C) Thickened muscularis propria

D) Lack of ganglion cells

Answer: D) Lack of ganglion cells

Question 212: All of the following features are seen in the viral pneumonia except ?

A) Presence of interstitial inflammation

B) Predominance of alveolar exudates

C) Bronchiolitis

D) Multinucleate giant cells in the bronchilar wall

Answer: B) Predominance of alveolar exudates

Question 213: Type I hypersensitivity is mediated by which of the following immunoglobulins ?

A) Ig A

B) Ig G

C) Ig M

D) Ig E

Answer: D) Ig E

Question 214: Which of the following is the most common location of hypertensive bleed in the brain ?

A) Putamen / External capsule

B) Pons

C) Ventricles

D) Lobar white matter

Answer: A) Putamen / External capsule

Question 215: A woman with infertility receives an ovary transplant from her sister who is an identical Twin. What type of graft it is ?

A) Xenograft

B) Autograft

C) Allograft

D) Isograft

Answer: D) Isograft

Question 216: The following is not a feature of malignant transformation by cultured cells ?

A) Increased cell density

B) Increased requirements for growth factors

C) Alterations of cytoskeletal structures

D) Loss of anchorage

Answer: B) Increased requirements for growth factors

Question 217: A simple bacterial test for mutagenic carcinogens is ?

- A) Ames test
- B) Redox test
- C) Bacteriophage
- D) Gene splicing

Answer: A) Ames test

Question 218: In Von Hippel-Lindau Syndrome, the retinal vascular tumors are often associated with intracranial hemangioblastoma. Which one of the following regions is associated with such vascular abnormalities in this syndrome ?

- A) Optic radiation
- B) Optic tract
- C) Cerebellum
- D) Pulvinar

Answer: C) Cerebellum

Question 244: Aschoff's nodules are seen in ?

- A) Subacute bacterial endocarditis
- B) Libman-Sacks endocarditis
- C) Rheumatic carditis
- D) Non-bacterial thrombotic endocarditis

Answer: C) Rheumatic carditis

Question 264: Which one of the following is not a feature of liver histology in Non cirrhotic portal fibrosis (NCPF) ?

- A) Fibrosis in and around the portal tracts
- B) Thrombosis of the medium and small portal vein branches

- C) Non specific inflammatory cell infiltrates in the portal tracts
- D) Bridging fibrosis

Answer: D) Bridging fibrosis

Question 271: Which one of the following soft tissue sarcomas frequently metastasizes to lymph nodes ?

- A) Fibrosarcoma
- B) Osteosarcoma
- C) Embryonal Rhabdomyosarcoma
- D) Alveolar soft part sarcoma

Answer: C) Embryonal Rhabdomyosarcoma

Subject - Pharmacology

Question 219: A highly ionized drug ?

- A) Is excreted mainly by the kidney
- B) Can cross the placental barrier easily
- C) Is well absorbed from the intestine
- D) Accumulates in the cellular lipids

Answer: A) Is excreted mainly by the kidney

Question 220: Nevirapine is a ?

- A) Protease inhibitor
- B) Nucleoside reverse transcriptase inhibitor
- C) Non-nucleoside reverse transcriptase inhibitor

D) Fusion inhibitor

Answer: C) Non-nucleoside reverse transcriptase inhibitor

Question 221: Which one of the following drugs is 'Topoisomerase I inhibitor' ?

A) Doxorubicin

B) Irinotecan

C) Etoposide

D) Vincristine

Answer: B) Irinotecan

Question 222: The following drugs have significant drug interaction with digoxin, except ?

A) Cholestyramine

B) Thiazide diuretics

C) Quinidine

D) Amlodipine

Answer: D) Amlodipine

Question 223: One of the following is not true about nesiritide ?

A) It is a brain natriuretic peptide analogue

B) is used in acutely decompensated heart failure

C) It has significant oral absorption

D) It has a short half-life

Answer: C) It has significant oral absorption

Question 224: The following statements regarding finasteride are true except ?

- A) It is used in the medical treatment of benign prostatic hypertrophy (BPH)
- B) Impotence is well documented after its use
- C) It blocks the conversion of dihydrotestosterone to testosterone
- D) It is a 5- α -reductase inhibitor

Answer: C) It blocks the conversion of dihydrotestosterone to testosterone

Question 225: Eternacept acts by one of the following mechanisms ?

- A) By blocking tumor necrosis factor
- B) By blocking bradykinin synthesis
- C) By inhibiting cyclo-oxygenase-2
- D) By blocking lipoxygenase

Answer: A) By blocking tumor necrosis factor

Question 226: All of the following are the disadvantages of anesthetic ether, except ?

- A) Induction is slow
- B) Irritant nature of ether increases salivary and bronchial secretions
- C) Cautery can not be used
- D) Affects blood pressure and is liable to produce arrhythmias

Answer: D) Affects blood pressure and is liable to produce arrhythmias

Question 227: In unconjugated hyperbilirubinemia, the risk of kernicterus increases with the use of ?

- A) Ceftriaxone

- B) Phenobarbitone
- C) Ampicillin
- D) Sulphonamide

Answer: D) Sulphonamide

Question 228: All of the following are topically used sulphonamides except ?

- A) Sulphacetamide
- B) Sulphadiazine
- C) Silver sulphadiazine
- D) Mafenide

Answer: B) Sulphadiazine

Question 229: Oculogyric crisis is known to be produced by all of the following drugs except ?

- A) Trifluoperazine
- B) Atropine
- C) Perchlorperazine
- D) Perphenazine

Answer: B) Atropine

Question 230: Inverse agonist of benzodiazepine receptor is ?

- A) Phenobarbitone
- B) Flumazenil
- C) Beta-carboline
- D) Gabapentin

Answer: C) Beta-carboline

Question 231: The group of antibiotics which possess additional anti-inflammatory and immunomodulatory activities is ?

- A) Tetracyclines
- B) Polypeptide antibiotics
- C) Fluoroquinolones
- D) Macrolides

Answer: D) Macrolides

Question 232: With which of the following theophylline has an antagonistic interaction ?

- A) Histamine receptors
- B) Bradykinin receptors
- C) Adenosine receptors
- D) Imidazoline receptors

Answer: C) Adenosine receptors

Question 233: One of the following is not penicillinase susceptible ?

- A) Amoxicillin
- B) Penicillin G
- C) Piperacillin
- D) Cloxacillin

Answer: D) Cloxacillin

Question 234: Which one of the following is best associated with Lumefantrine ?

A) Antimycobacterial

B) Antifungal

C) Antimalarial

D) Antiamoebic

Answer: C) Antimalarial

Question 235: Which one of the following drugs increases gastro-intestinal motility ?

A) Glycopyrrolate

B) Atropine

C) Neostigmine

D) Fentanyl

Answer: C) Neostigmine

Question 236: Which one of the following is the fastest acting inhalational agent ?

A) Halothane

B) Isoflurane

C) Ether

D) Sevoflurane

Answer: D) Sevoflurane

Question 237: Which one of the following drugs has been shown to offer protection from gastric aspiration syndrome in a patient with symptoms of reflux ?

A) Ondansetron

B) Metoclopramide

C) Sodium citrate

D) Atropine

Answer: B) Metoclopramide

Question 265: Dry mouth during antidepressant therapy is caused by blockade of ?

A) Muscarinic acetyl choline receptors

B) Serotonergic receptors

C) Dopaminergic receptors

D) GABA receptors

Answer: A) Muscarinic acetyl choline receptors

Question 266: All of the following are hallucinogens, except ?

A) LSD

B) Phencyclidine

C) Mescaline

D) Methylphenidate

Answer: D) Methylphenidate

Question 267: The major difference between typical and atypical antipsychotics is that ?

A) The latter cause minimal or no increase in prolactin

B) The former cause tardive dyskinesia

C) The former are available as parenteral preparations

D) The latter cause substantial sedation

Answer: B) The former cause tardive dyskinesia

Subject - Physiology

Question 239: CO₂ is primarily transported in the arterial blood as ?

- A) Dissolved CO₂
- B) Carbonic Acid
- C) Carbamino-hemoglobin
- D) Bicarbonate

Answer: D) Bicarbonate

Question 240: Barr body is found in the following phase of the cell cycle ?

- A) Interphase
- B) Metaphase
- C) G1 phase
- D) Telophase

Answer: A) Interphase

Question 241: The type of hemoglobin that has least affinity for 2,3-Diphosphoglycerate (2,3 DPG) or (2,3-BPG) is ?

- A) Hb A
- B) Hb F
- C) Hb B
- D) Hb A2

Answer: B) Hb F

Question 242: Cellular and flagellar movement is carried out by all of the following except ?

- A) Intermediate filaments
- B) Actin
- C) Tubulin
- D) Myosin

Answer: A) Intermediate filaments

Question 243: Heme is converted to bilirubin mainly in ?

- A) Kidney
- B) Liver
- C) Spleen
- D) Bone Marrow

Answer: C) Spleen

Question 245: Pulmonary surfactant is secreted by ?

- A) Type I pneumocytes
- B) Type II pneumocytes
- C) Clara cells
- D) Bronchial epithelial cells

Answer: B) Type II pneumocytes

Question 246: The parvocellular pathway from lateral geniculate nucleus to visual cortex is most sensitive for the stimulus of ?

- A) Color contrast
- B) Luminance contrast

- C) Temporal frequency
- D) Saccadic eye movements

Answer: A) Color contrast

Question 247: The fibers from the contralateral nasal hemiretina project to the following layers of the lateral geniculate nucleus ?

- A) Layers 2, 3 & 5
- B) Layers 1, 2 & 6
- C) Layers 1, 4 & 6
- D) Layers 4, 5 & 5

Answer: C) Layers 1, 4 & 6

Question 248: All endothelial cells produce thrombomodulin except those found in ?

- A) Hepatic circulation
- B) Cutaneous circulation
- C) Cerebral circulation
- D) Renal circulation

Answer: C) Cerebral circulation

Question 249: S.A. node acts as a pacemaker of the heart because of the fact that it ?

- A) Is capable of generating impulses spontaneously
- B) Has rich sympathetic innervations
- C) Has poor cholinergic innervations
- D) Generates impulses at the highest rate

Answer: D) Generates impulses at the highest rate

Question 250: The first physiological response to high environmental temperature is ?

- A) Sweating
- B) Vasodilation
- C) Decreased heat production
- D) Non-shivering thermogenesis

Answer: B) Vasodilation

Question 251: All of the following factors normally increase the length of the ventricular cardiac muscle fibres except ?

- A) Increased venous tone
- B) Increased total blood volume
- C) Increased negative intrathoracic pressure
- D) Lying-to-standing change in posture

Answer: D) Lying-to-standing change in posture

Question 252: The vasodilatation produced by carbondioxide is maximum in one of the following ?

- A) Kidney
- B) Brain
- C) Liver
- D) Heart

Answer: B) Brain

Question 253: Which one of the following statements is true regarding water reabsorption in the tubules ?

- A) The bulk of water reabsorption occurs secondary to Na⁺ reabsorption
- B) Majority of facultative reabsorption occurs in proximal tubule
- C) Obligatory reabsorption is ADH dependent
- D) 20% of water is always reabsorbed irrespective of water balance

Answer: A) The bulk of water reabsorption occurs secondary to Na⁺ reabsorption

Question 254: Urinary concentrating ability of the kidney is increased by ?

- A) ECF volume contraction
- B) Increase in RBF
- C) Reduction of medullary hyperosmolarity
- D) Increase in GFR

Answer: A) ECF volume contraction

Question 255: Distribution of blood flow is mainly regulated by the ?

- A) Arteries
- B) Arterioles
- C) Capillaries
- D) Venules

Answer: B) Arterioles

Question 256: In which of the following a reduction in arterial oxygen tension occurs ?

- A) Anaemia
- B) CO poisoning
- C) Moderate exercise

D) Hypoventilation

Answer: D) Hypoventilation

Question 257: Neuronal degeneration is seen in all of the following except ?

A) Crush nerve injury

B) Fetal development

C) Senescence

D) Neuropraxia

Answer: D) Neuropraxia

Question 258: With which one of the following Lower motor neuron lesions are associated ?

A) Flaccid paralysis

B) Hyperactive stretch reflex

C) Spasticity

D) Muscular incoordination

Answer: A) Flaccid paralysis

Question 259: Aspermia is the term used to describe ?

A) Absence of semen

B) Absence of sperm in ejaculate

C) Absence of sperm motility

D) Occurrence of abnormal sperm

Answer: A) Absence of semen

Question 260: Which of the following statements can be regarded as primary action of Inhibin ?

- A) It inhibits secretion of prolactin
- B) It stimulates synthesis of estradiol
- C) It stimulates secretion of TSH
- D) It inhibits secretion of FSH

Answer: D) It inhibits secretion of FSH

Question 261: The main site of bicarbonate reabsorption is ?

- A) Proximal convoluted tubule
- B) Distal convoluted tubule
- C) Cortical collecting duct
- D) Medullary collecting duct

Answer: A) Proximal convoluted tubule

Subject - Psychiatry

Question 284: An 18 year old boy come to the Psychiatry OPD with a complaint of feeling changed from inside. He described himself as feeling strange as if he is different from his normal self. He was very tense and anxious yet could not point out the precise change in him. This phenomena is best called as ?

- A) Delusional mood
- B) Depersonalization
- C) Autochthonous delusion
- D) Over valued idea

Answer: B) Depersonalization

Question 295: A 40 year old male, with history of daily alcohol consumption for the last 7 years, is brought to the hospital emergency room with acute onset of seeing snakes all around him in the room, not recognizing family members, violent behaviour and tremulousness for few hours. There is history of his having missed the alcohol drink since 2 days. Examination reveals increased blood pressure, tremors, increased psychomotor activity, fearful affect, hallucinatory behaviour, disorientation, impaired judgement and insight. He is most likely to be suffering from ?

- A) Alcoholic hallucinosis
- B) Delirium tremens
- C) Wernicke encephalopathy
- D) Korsakoff's psychosis

Answer: B) Delirium tremens

Question 296: A 45-year male with a history of alcohol dependence presents with confusion, nystagmus and ataxia. Examination reveals 6th cranial nerve weakness. He is most likely to be suffering from ?

- A) Korsakoff's psychosis
- B) Wernickei encephalopathy
- C) De Clerambault syndrome
- D) Delirium tremens

Answer: B) Wernickei encephalopathy

Question 297: A 25 year old female presents with 2 year history of repetitive, irresistible thoughts of contamination with dirt associated with repetitive hand washing. She reports these thoughts to be her own and distressing, but is not able to overcome them along with medications. She is most likely to benefit from which of the following therapies ?

- A) Exposure and response prevention
- B) Systematic desensitization
- C) Assertiveness training

D) Sensate focusing

Answer: A) Exposure and response prevention

Question 298: An 18 year old student complains of lack of interest in studies for last 6 months. He has frequent quarrels with his parents and has frequent headaches. The most appropriate clinical approach would be to ?

A) Leave him as normal adolescent problem

B) Rule out depression

C) Rule out migraine

D) Rule out oppositional defiant disorder

Answer: D) Rule out oppositional defiant disorder

Question 299: Perseveration is ?

A) Persistent and inappropriate repetition of the same thoughts

B) When a patient feels very distressed about it

C) Characteristic of schizophrenia

D) Characteristic of obsessive compulsive disorder (OCD)

Answer: A) Persistent and inappropriate repetition of the same thoughts

Question 300: One of the following usually differentiates hysterical symptoms from hypochondriacal symptoms ?

A) Symptoms do not normally reflect understandable physiological or pathological mechanism

B) Physical symptoms are prominent which are not explained by organic factors

C) Personality traits are significant

D) Symptoms run a chronic course

Answer: A) Symptoms do not normally reflect understandable physiological or pathological mechanism

Subject - Radiodiagnosis

Question 270: In which one of the following conditions the Sialography is contraindicated ?

- A) Ductal calculus
- B) Chronic parotitis
- C) Acute parotitis
- D) Recurrent sialadenitis

Answer: C) Acute parotitis

Question 285: Which of the following ultrasound marker is associated with greatest increased risk for Trisomy 21 in fetus ?

- A) Echogenic foci in heart
- B) Hyperechogenic bowel
- C) Choroid plexus cysts
- D) Nuchal edema

Answer: D) Nuchal edema

Question 288: Which one of the following is the most preferred route to perform cerebral angiography ?

- A) Transfemoral route
- B) Transaxillary route
- C) Direct carotid puncture
- D) Transbrachial route

Answer: A) Transfemoral route

Question 290: Which one of the following tumor shows calcification on CT Scan ?

A) Ependymoma

B) Medulloblastoma

C) Meningioma

D) CNS Lymphoma

Answer: C) Meningioma

Question 292: Gamma camera in Nuclear Medicine is used for ?

A) Organ imaging

B) Measuring the radioactivity

C) Monitoring the surface contamination

D) RIA

Answer: B) Measuring the radioactivity

Question 294: The most sensitive imaging modality for diagnosis of ureteric stones in a patient with acute colic is ?

A) X-ray KUB region

B) Ultrasonogram

C) Non contrast CT scan of the abdomen

D) Contrast enhanced CT scan of the abdomen

Answer: C) Non contrast CT scan of the abdomen

Subject - Radiotherapy

Question 289: Which one of the following radioisotope is not used as permanent implant ?

- A) Iodine-125
- B) Palladium-103
- C) Gold-198
- D) Caesium-137

Answer: D) Caesium-137

Question 291: The technique employed in radiotherapy to counteract the effect of tumor motion due to breathing is known as ?

- A) Arc technique
- B) Modulation
- C) Gating
- D) Shunting

Answer: C) Gating

Question 293: At $t=0$, there are 6×10^{23} radioactive atoms of a substance, which decay with a disintegration constant (λ) equal to $0.01/\text{sec}$. What would be the initial decay rate ?

- A) 6×10^{23}
- B) 6×10^{22}
- C) 6×10^{21}
- D) 6×10^{20}

Answer: C) 6×10^{21}

Subject - Surgery

Question 20: While doing thoracocentesis, it is advisable to introduce needle along ?

- A) upper border of the rib
- B) lower border of the rib
- C) in the center of the intercostal space
- D) in anterior part of intercostal space

Answer: A) upper border of the rib

Question 164: Abbey-Estlander flap is used in the reconstruction of ?

- A) Buccal mucosa
- B) Lip
- C) Tongue
- D) Palate

Answer: B) Lip

Question 263: Gardner's syndrome is a rare hereditary disorder involving the colon. It is characterized by ?

- A) Polyposis colon, cancer thyroid, skin tumors
- B) Polyposis in jejunum, pituitary adenoma and skin tumors
- C) Polyposis colon, osteomas, epidermal inclusion cysts and fibrous tumors in the skin
- D) Polyposis of gastrointestinal tract, Cholangiocarcinoma and skin tumors

Answer: C) Polyposis colon, osteomas, epidermal inclusion cysts and fibrous tumors in the skin

Question 269: According to the Glasgow Coma Scale (GCS), a verbal score of

1 indicates ?

- A) No response
- B) Inappropriate words
- C) Incomprehensible sounds
- D) Disoriented response

Answer: A) No response

Question 272: In which of the following diseases, the overall survival is increased by screening procedure ?

- A) Prostate cancer
- B) Lung cancer
- C) Colon cancer
- D) Ovarian cancer

Answer: C) Colon cancer

Question 273: Lumbar sympathectomy is of value in the management of ?

- A) Intermittent claudication
- B) Distal ischaemia affecting the skin of the toes
- C) Arteriovenous Fistula
- D) Back pain

Answer: B) Distal ischaemia affecting the skin of the toes

Question 274: A blood stained discharge from the nipple indicates one of the following ?

- A) Breast abscess
- B) Fibroadenoma

- C) Duct papilloma
- D) Fat Necrosis of Breast

Answer: C) Duct papilloma

Question 275: The earliest manifestation of increased intracranial pressure following head injury is ?

- A) Ipsilateral pupillary dilatation
- B) Contralateral pupillary dilatation
- C) Altered mental status
- D) Hemiparesis

Answer: C) Altered mental status

Question 276: In which of the following conditions splenectomy is not useful ?

- A) Hereditary spherocytosis
- B) Porphyria
- C) Thalassemia
- D) Sickle cell disease with large spleen

Answer: B) Porphyria

Question 277: The following is ideal for the treatment with injection of sclerosing agents ?

- A) External hemorrhoids
- B) Internal hemorrhoids
- C) Prolapsed hemorrhoids
- D) Strangulated hemorrhoids

Answer: B) Internal hemorrhoids

Question 278: In which of the following locations, Carcinoid tumor is most common ?

- A) Esophagus
- B) Stomach
- C) Small bowel
- D) Appendix

Answer: C) Small bowel

Question 279: All of the following are true for patients of ulcerative colitis associated with primary sclerosing cholangitis (PSC), except ?

- A) They may develop biliary cirrhosis
- B) May have raised alkaline phosphatase
- C) Increased risk of hilar Cholangiocarcinoma
- D) PSC reverts after a total colectomy

Answer: D) PSC reverts after a total colectomy

Question 280: The most common complication seen in hiatus hernia is ?

- A) Esophagitis
- B) Aspiration pneumonitis
- C) Volvulus
- D) Esophageal stricture

Answer: A) Esophagitis

Question 281: Which of the following catheter materials is most suited for long-term use ?

- A) Latex
- B) Silicone
- C) Rubber
- D) Polyurethane

Answer: D) Polyurethane

Question 282: Which of the following is the most troublesome source of bleeding during a radical retropubic prostatectomy ?

- A) Dorsal venous complex
- B) Inferior vesical pedicle
- C) Superior vesical pedicle
- D) Seminal vesicular artery

Answer: A) Dorsal venous complex

Question 283: Which one of the following is not used as a tumor marker in testicular tumors ?

- A) AFP
- B) LDH
- C) HCG
- D) CEA

Answer: D) CEA