PG-2011

## **MEDICAL**

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**Question Booklet Version Code** 

B

(Write this Code on your OMR Answer Sheet

Question Booklet Sr. No.

2230

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### MEDICAL

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- 1. Sheehan's Syndrome is due to:
  - a) Puerperal infection
  - b) Postpartum pituitary necrosis
  - c) Antepartum hemorrhage
  - d) Mastitis
- 2. Particulate inclusion from red cells are removed by spleen is called:
  - a) Pitting
  - b) Filtering
  - c) Phagocytosis
  - d) Culling
- 3. Which of the following is usually not a feature of peripheral neuropathy?
  - a) Pins and needles sensation
  - b) Impaired joint-position sense
  - c) Brisk tendon reflexes
  - d) Erectile dysfunction
- 4. A typical relaxed sarcomere is about 2.3  $\mu m$  in length and contracts to about 2  $\mu m$  in length. Within the sarcomere, the thin filaments are about 1  $\mu m$  long and the thick filments are about 1.5  $\mu m$  long. What would be the overlaps of thick and thin filaments in the relaxed and contracted sarcomere?
  - a) 0.6 µm on each side in relaxed state; and in contracted it would be 0.75µm
  - b) 0.75 µm on each side in relaxed state; in contracted it would be about 0.6µm
  - c) 1.2 µm on each side in relaxed state; and in contracted it would be 1.5µm
  - d) None of the above
- 5. In a random sampling from a population chance of selecting a unit is:
  - a) Same and not known
  - b) Same and known
  - c) Not same
  - d) Not same and known
- 6. Tuberculin test was discovered by:
  - a) Von Pirquet
  - b) Heaf
  - c) Robert Koch
  - d) Ehrlich



- 7. The Estimated Average Requirement (EAR) of a nutrient is:
  - a) The same as the RDA of that nutrient
  - b) An amount that should meet the requirement of half of the healthy individuals of a particular group
  - c) Based on the observed nutrient intake of a particular group
  - d) The highest level of nutrient deemed to pose no risk or adverse health effects on the particular population.
- 8. The property of cellular immortality refers to a cell's ability to:
  - a) Grow new blood vessels
  - b) Invade through the basement membrane of its tissue
  - c) Resist apoptosis
  - d) Continue to divide indefinitely without limit to the number of cell generations
- 9. The transitional epithelium lining the urinary bladder is derived from
  - a) Ectoderm
  - b) Endoderm
  - c) Mesoderm
  - d) Endoderm and Mesoderm
- 10. Ankyrin of the human erythrocyte membrane is a:
  - a) Peripheral protein
  - b) Integral protein
  - c) Dimeric protein
  - d) None of the above
- 11. The neurotoxin Tetrodotoxin:
  - a) Binds to voltage gated Na+ channel and blocks Na+ influx
  - b) Binds to nicotinic- ACh activated channels and blocks Na+ influx
  - c) Binds to Ca++ channels blocking Ca++ influx
  - d) Binds to voltage gated K+ channel and blocks K+ efflux
- 12. The drug used in treating inoperable insulinomas is:
  - a) Diazoxide
  - b) Hydralazine
  - c) Metyrosine
  - d) Fenoldopam

- 13. Human viruses characterized by helical symmetry of viral nucleic acid are:
  - a) All enveloped viruses
  - b) All DNA viruses
  - c) Empty helical particles containing no nucleic acid produced in infected cells
  - d) All classified into same virus family
- 14. Dry Submarine is a type of torture, which means:
  - a) Tying of a plastic bag over the head
  - b) Forced immersion of head in water
  - c) Hitting with palms on both the ears
  - d) Hitting to the soles of the feet
- 15. Relatively sensitive biomarker for heart failure with depressed ejection fraction is:
  - a) Troponin T
  - b) Troponin I
  - c) C-Reactive protein
  - d) B-Type natriuretic peptide
- 16. Which of the following is true in case of a compensated shock?
  - a) Lactic acidosis
  - b) Anuria
  - c) Hypotension
  - d) Increased respiratory rate
- 17. A high FSH (Follicle Stimulating Hormone) level denotes:
  - a) Primary gonadal failure
  - b) Obstructive lesion in the vasa epididymis
  - c) Pitutary or hypothalamic failure
  - d) Leydig cell dysfunction
- 18. All are features of Epidemic Dropsy **EXCEPT**:
  - a) Convulsions
  - b) Glaucoma
  - c) Diarrhea
  - d) Heart failure
- 19. J shaped population growth curve should be associated with:
  - a) Exponential growth
  - b) Biotic potential
  - c) No environmental resistance
  - d) All of the above

- 20. An infant born to alcoholic mother had microcephaly, cardiac abnormalities and died despite resuscitative efforts. During which period of pregnancy is alcohol most teratogenic:
  - a) First two weeks
  - b) Third to ninth week
  - c) Ninth to twelveth week
  - d) Twelve to sixteenth week
- 21. Normal Anion Gap is generally observed in:
  - a) Renal Tubular Acidosis
  - b) Methanol Toxicity
  - c) Lactic Acidosis
  - d) None of the above
- 22. Trientine is used in:
  - a) Alzheimer's disease
  - b) Parkinsonism
  - c) Wilson's disease
  - d) Huntington's disease
- 23. Most specific test for organophosphorus poisoning is:
  - a) RBC Cholinesterase level
  - b) Plasma cholinesterase level
  - c) RBC Uroporphyrin level
  - d) Serum organophosphorus level
- 24. Hypofluorescence in Fundus Fluorescein Angiography is seen in:
  - a) Macular hole
  - b) Drusen
  - c) Subhyaloid hemorrhage
  - d) Choroidal neovascularisation
- 25. Cystoid macular edema is associated with the following ocular condition **EXCEPT:** 
  - a) Macular dystrophy
  - b) Panretinal Photocoagulation
  - c) Retinitis pigmentosa
  - d) Following Penetrating Keratoplasty

- 26. Buspirone acts selectively on the:
  - a) 5HT 2C receptor
  - b) 5HT 1D receptor
  - c) 5HT 1A receptor
  - d) 5HT 2A receptor
- 27. The following are Cluster B Personality disorders **EXCEPT**:
  - a) Antisocial Personality Disorder
  - b) Borderline Personality Disorder
  - c) Paranoid Personality Disorder
  - d) Histrionic Personality Disorder
- 28. Acute Physiology And Chronic Health Evaluation II (APACHE II) includes all of the following **EXCEPT:** 
  - a) Rectal temperature in degree Celsius
  - b) Mean blood pressure in mm of Hg
  - c) Blood urea
  - d) Heart rate
- 29. Systemic Inflammatory Response Syndrome (SIRS) is diagnosed by following EXCEPT:
  - a) Fever (oral temperature of more than 38 °C)
  - b) Tachypnea (respiratory rate more than 24 breaths / minute)
  - c) Bradycardia (heart rate less than 50 / minute)
  - d) Leukopenia (total leucocyte count less than 4000 / micro litre)
- 30. In Crohns disease all are true **EXCEPT**:
  - a) Can affect any part of gastrointestinal tract
  - b) Affects full thickness of bowel wall
  - c) Recurrence uncommon after resection
  - d) Causes stricture and fistulation
- 31. Which of the following benign breast condition has increased risk of developing cancer
  - a) Adenosis
  - b) Apocrine metaplasia
  - c) Squamous metaplasia
  - d) Atypical hyperplasia
- 32. Disseminated intravascular coagulation is commonly seen in:
  - a) Placenta Praevia
  - b) Abruption Placenta
  - c) Vasa Praevia
  - d) Succenturiate Lobe

- 33. Estrogen content of 3<sup>rd</sup> generation oral contraceptive pills is:
  - a) 20-30 microgram
  - b) 40-50 microgram
  - c) 60 microgram
  - d) 100 microgram
- 34. Conversion of the cell to an acidophilic opaque "Tombstone" is seen in:
  - a) Caseous Necrosis
  - b) Liquifaction Necrosis
  - c) Fat Necrosis
  - d) Coagulation Necrosis
- 35. The Muscles of the Tongue developed from:
  - a) Pre-occipital myotomes
  - b) Occipital myotomes
  - c) Cervical myotomes
  - d) Mesenchyme locally
- 36. The most appropriate laboratory findings in Type IV Renal Tubular Acidosis:
  - a) The urine pH<5.5; with K<sup>+</sup> normal or low
  - b) The urine pH>5.5; with hypokalemia
  - c) The urine pH<5.5; with hyperkalemia
  - d) None of the above
- 37. Among the Oncofetal Antigens as tumour markers; The Tennessee Antigen is a:
  - a) Glyco protein with molecular weight 600 KD
  - b) Glyco protein with molecular weight 100 KD
  - c) Glyco protein with molecular weight 40 KD
  - d) Cytokeratins
- 38. In which of the following parasites all the stages are infectious for man:
  - a) Cryptosporidium parvum
  - b) Blastocystis
  - c) Toxoplasma gondii
  - d) Sarcocystis
- 39. The media used for cultivation of Legionella pneumophila:
  - a) Skirrow's media
  - b) 20% horse serum & yeast extract
  - c) Buffered charcoal yeast extract media
  - d) Ellinghausen, McCullough, Johnson, Harris media

- 40. Non vascular soft tissue calcification and hypocalcaemia occurs in:
  - a) Hypoparathyroidism
  - b) Secondary hyperparathyroidism
  - c) Sarcoidosis
  - d) Pseudo hyperparathyroidism
- 41. Clinical features of miliary tuberculosis include all of the following **EXCEPT:** 
  - a) Night sweats
  - b) Bronchial breathing
  - c) Headache
  - d) Hepatosplenomegaly
- 42. In hypertrophic ventricular myopathy the loudness of the mid-systolic crescendo decrescendo murmur:
  - a) Increases during Valsalva manoeuvre due to increased venous return
  - b) Decreases on standing due to decreased venous return
  - c) Decreases on standing due to increased ventricular filling
  - d) Increases on squatting due to increased venous return
- 43. Homologous recombination in E.coli forms heteroduplex regions of DNA containing mismatched bases. Why are these mismatches not eliminated by mismatch repair system?
  - a) Because both the strands are methylated
  - b) Because one of the strands methylated
  - c) Because both strands are acetylated
  - d) None of the above
- 44. Amyloid stroma is charcteristically seen in:
  - a) Papillary carcinoma
  - b) Follicular carcinoma
  - c) Medullary carcinoma
  - d) Anaplastic carcinoma
- 45. Gastrinomas are commonly seen in:
  - a) Sherren's Triangle
  - b) Passaro Triangle
  - c) Calot's Triangle
  - d) Cardio-oesophageal junction

46.	Tubal	patency	can	be	detected	by	the	foll	owing	test:
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- a) Colposcopy
- b) Hysterosalpingogram
- c) Hysteroscopy
- d) None of the above
- 47. What statistical test of hypothesis could be used to compare the difference in mean of two independent samples:
  - a) Chisquare test
  - b) Unpaired or independent t-test
  - c) Analysis of variance
  - d) Paired t-test
- 48. The intrinsic pathway of coagulation includes all the following **EXCEPT:** 
  - a) Factor VII
  - b) Factor VIII
  - c) Factor IX
  - d) Factor XI
- 49. The vascular type of Ehlers Danlos syndrome results from abnormalities of:
  - a) Type I Collagen
  - b) Type II Collagen
  - c) Type III Collagen
  - d) Type IV Collagen
- 50. All of the following are derivatives of Neural Crest **EXCEPT**:
  - a) Melanocyte
  - b) Adrenal medulla
  - c) Sympathetic ganglion
  - d) Cauda equina
- 51. Grains containing gluten to be omitted in diet in celiac disease are all **EXCEPT**:
  - a) Wheat
  - b) Rye
  - c) Barley
  - d) Corn

- 52. Progressive mental and physical debilitation beginning at age one with corneal opacity as well as with an enzyme deficiency of alpha-L-Iduronidase is suggestive of a lysosomal storage disease:
  - a) Gaucher's disease
  - b) Krabbe's disease
  - c) Fabry's disese
  - d) Hurler's disease
- 53. Methoxsalen is used in all these conditions EXCEPT:
  - a) Vitiligo
  - b) Psoriasis
  - c) T-cell lymphoma
  - d) Melanoma
- 54. Sickle cell anaemia is an important predisposing feature in the development of osteomyelitis caused by:
  - a) Staphylococcus aureus
  - b) Salmonella typhi
  - c) Escherichia coli
  - d) Pseudomonas aeruginosa
- 55. Tribadism is:
  - a) Having sexual intercourse with an animal
  - b) Female homosexuality
  - c) Anal intercourse
  - d) A desire to be identified with opposite sex
- 56. A 35 years old lady was operated for conductive deafness 2 years back. She had dramatic improvement in hearing following the surgery. However, she developed deafness in the operated ear since 1 week. She also complained of disequilibrium, and tinnitus in the affected ear and fullness in the affected ear. Above symptoms started 1 week back following severe sneezing while shifting heavy and dusty luggage in her house. On examination, there was no external scar, the tympanic membrane was intact, and audiogram showed mixed hearing loss. Patient had nystagmus on using seigle's pneumatic ear speculum.

The most likely diagnosis is:

- a) Menieres disease
- b) Cochlear otosclerosis
- c) Perilymph Fistula
- d) Lermoyez syndrome

- 57. Retinal Pigment Epithelium is embryologically derived from:
  - a) Neural crest cells
  - b) Neural ectoderm
  - c) Surface ectoderm
  - d) Mesoderm
- 58. Which of the following has maximum MAC(Minimum Alveolar Concentration) value:
  - a) Sevoflurane
  - b) Ether
  - c) Xenon
  - d) Desflurane
- 59. The commonest precipitating factor for recurrent Erythema multiforme is:
  - a) NSAID's
  - b) Streptococcal infection
  - c) Herpes simplex infection
  - d) Histoplasmosis
- 60. Which of the following statements is false regarding congenital renal anomalies?
  - a) Incidence of unilateral renal agenesis is 1 in 1000 to 1 in 2000
  - b) Thoracic kidney can present as a posterior mediastinal mass
  - c) Horse-shoe kidney is associated with increased risk of neuroblastoma
  - d) There is increased incidence of vesico-ureteric reflux in crossed, fused and ectopic kidneys
- 61. The following apply for Factitious disorder **EXCEPT**::
  - a) Previously known by the eponym Munchausen syndrome
  - b) The symptoms are intentionally produced
  - c) The patients have clear-cut motives that drive them to feign the symptoms
  - d) High rates of substance abuse, mood disorder and borderline personality disorder seen in such patients
- 62. In a child with suspected neck and spine trauma, to open the airway the following manouvre is done:
  - a) Head tilt
  - b) Chin lift
  - c) Jaw thrust
  - d) Finger sweep

- 63. Absent thumb and hyperpigmentation in a child with anemia are clues to the diagnosis of:
  - a) Dyskeratosis congenita
  - b) Myelodysplastic anemia
  - c) Pure red cell aplasia
  - d) Fanconi's anemia
- 64. A young man suffered third degree burns over much of his body and is hospitalized in a severe catabolic state. An individual in this state requires about 40 kcal kg -¹ day -¹ and 2 g protein kg-¹ day-¹ to be in positive caloric and nitrogen balance. This young man weighs 140 lb (64 kg). Total parenteral nutrition (TPN) is started with a solution containing 20% glucose and 4.25% amino acids (the form in which protein is supplied).

If 3000 g. of solution is infused per day:

- a) The patient would not be getting sufficient protein
- b) The calories supplied would be inadequate
- c) Both protein and calories would be adequate to meet requirements
- d) This is too much protein being infused
- 65. Transjugular Intrahepatic Porto Systemic Stent (TIPSS) shunt involves creation of shunt between:
  - a) Portal vein and vena cava
  - b) Portal vein and hepatic vein
  - c) Hepatic vein and vena cava
  - d) Portal vein and hepatic artery
- 66. Cystic glandular hyperplasia of the endometrium is characteristic of:
  - a) Polymenorrhoea
  - b) Hypometrorrhagia
  - c) Metropathica hemorrhagica
  - d) Ammenorhoea
- 67. The drug of choice for suppression of lactation is:
  - a) Combined oral contraceptive
  - b) Cabergolin
  - c) Progesterone only pill
  - d) Mifepristone
- 68. Basic measure of disease frequency is:
  - a) Rate
  - b) Ratio
  - c) Both of the above

d) None of the above

#### 69. "FRAMINGHAM STUDY" is about:

- a) Risk factors of Coronary Heart Disease
- b) Risk Factors of Schizophrenia
- c) Risk Factors of Diabetes
- d) Risk Factors of Road Traffic Accidents

## 70. Ovariectomy before 6 weeks of pregnancy:

- a) Does not affect pregnancy as it dependents on placental hormones
- b) Affects pregnancy as it dependents on corpus luteum
- c) Affects pregnancy as it dependents on Gonadotropins
- d) Does not affect pregnancy as it does not dependent on ovary

### 71. Decreased extracellular calcium is associated with increased:

- a) Clotting tendency
- b) Nerve excitability
- c) Muscle flaccidity
- d) Bone deposition

### 72. Establishment of latent infection frequently occurs in:

- a) Filo viruses
- b) Herpes viruses
- c) Calci viruses
- d) Pox viruses

#### 73. Non-oncogenic retroviruses (Lenti viruses)

- a) Have related sequences endogenous in normal cells
- b) Contain DNA genome
- c) Cause rapidly progressive neurologic disease
- d) Infect cells of immune system

#### 74. Paltauf's Haemorrhage occurs in:

- a) Strangulation
- b) Hanging
- c) Drowning
- d) Choking

75. A 45 years old man presented with hoarseness of voice of 3 months duration. Laryngoscopy showed an ulceroproliferative growth involving (Rt.) vocal cord and anterior commissure. (Rt.) vocal cord was fixed. Biopsy showed squamous carcinoma. There was no erosion of the thyroid cartilage.

The treatment of choice would be:

- a) Radiotherapy + Salvage Surgery
- b) Concurrent Radiotherapy + Chemotherapy
- c) Neo adjuvant Chemotherapy + Surgery
- d) Neo adjuvant Chemotherapy followed by Radiotherapy
- 76. Multiple ovarian cysts are features of:
  - a) Infantile polycystic kidney disease
  - b) Stein Leventhal syndrome
  - c) Gardner's syndrome
  - d) Metropathia hemorrhage
- 77. The deformity in club foot is:
  - a) Equinus
  - b) Equino valgus
  - c) Equino varus
  - d) Calcaneo valgus
- 78. In a patient who has sustained multiple fractures following RTA, the first thing to do is:
  - a) Splint all fracture
  - b) Get x-ray done
  - c) Open reduction of fractures
  - d) Secure airway and treat shock
- 79. Bronchial Asthma is best diagnosed by:
  - a) Wheeze
  - b) Cough and Dyspnea
  - c) FEV<sub>1</sub> values (Forced expiratory volume in one second)
  - d) Demonstration of reversible obstruction
- 80. A 28 years old female, has diarrhea, mild cough with slightly productive sputum, high grade fever, confusion with bilateral wide spread pulmonary infiltrates on X-ray chest, the diagnosis is:
  - a) Haemophilus influenza
  - b) Mycoplasma pneumonia
  - c) Streptococcal pneumonia

- d) Legionnair's disease
- 81. All are true about Congenital Hereditary Endothelial Dystrophy (CHED) **EXCEPT**:
  - a) Bilateral, edematous cloudy corneas
  - b) Increased corneal thickness
  - c) Occurs in an otherwise healthy term infant
  - d) Increased horizontal corneal diameter
- 82. Majority cases of Eczema herpeticum is caused by:
  - a) Coxsackie A 16 virus
  - b) Vaccinia virus
  - c) Hepatitis virus
  - d) Herpes simplex virus
- 83. Epidermolytic hyperkeratosis on histopathology of skin is seen in:
  - a) Ichthyosis Vulgaris
  - b) Lamellar Ichthyosis
  - c) Bullous Ichthyosiform erythroderma
  - d) Non Bullous Ichthyosiform erythroderma
- 84. HbS polymerizes because:
  - a) The structure shifts to bury valine in the interior of the protein
  - b) The C-terminal end of the chain has been modified
  - c) A positive charge has been introduced on the surface to attract negative charges
  - d) The hydrophobic group on the surface is attracted to other hydrophobic groups.
- 85. Malignant cancer cells have all of the following properties **EXCEPT:** 
  - a) Unregulated cell division
  - b) Inhibition of angiogenesis
  - c) Resistance to apoptosis
  - d) Cellular immortality
- 86. Which of the following heart disease is the most dangerous during pregnancy:
  - a) Aortic stenosis
  - b) Mitral regurgitation
  - c) Pulmonary stenosis
  - d) Mitral valve prolapse

- 87. Torsion of ovarian cyst during pregnancy is commonly seen in:
  - a) Dermoid cyst
  - b) Serous cyst adenoma
  - c) Mucinous cyst adenoma
  - d) Theca luetin cyst
- 88. Helicobacter pylori colonization is implicated in all of the following **EXCEPT**:
  - a) Gastro-oesophageal reflux
  - b) Duodenal ulcer disease
  - c) Peptic ulcer disease
  - d) Gastric Mucosa Associated Lymphoid Tissue lymphoma
- 89. Which of the following anti-mycobacterial drugs require dose reduction in a patient with an estimated glomerular filtration rate of 25ml/min?
  - a) Isoniazid
  - b) Ethambutol
  - c) Streptomycin
  - d) Rifampicin
- 90. Which one of the following is true about primary oocyte:
  - a) All primary oocyte are formed in prenatal life
  - b) All primary oocyte are formed at puberty
  - c) All primary oocyte are formed after menarche
  - d) Primary oocyte are formed continuously from puberty until menopause
- 91. An 18 months old boy was brought to the casualty with bouts of cough and respiratory distress, which started during sleep at night. There was history of nasal discharge and low grade fever for 3 days duration. On auscultation, there was strider both during inspiration and expiration. The treatment of choice would be:
  - a) Tracheostomy
  - b) Intra venous Hydrocortisone
  - c) Salbutamol Nebulization
  - d) Epinephrine Nebulization + Budesonide Nebulization
- 92. Atropine as Pre-Anaesthetic medication has all effects **EXCEPT**:
  - a) Decreases secretion
  - b) Bronchoconstriction
  - c) Prevent Hypotension
  - d) Prevent Bradycardia

- 93. In Guedels stages of Anaesthesia, light reflex is lost in which stage:
  - a) Stage III-Plane 2
  - b) Stage III-Plane 3
  - c) Stage III-Plane 4
  - d) Stage IV
- 94. Acute hyperkalemia is associated with one of the following change in electrocardiography:
  - a) Small T waves
  - b) QRS widening
  - c) QRS shortening
  - d) Decreased PR interval
- 95. The deep tendon reflex requires all of the following structures to be functional **EXCEPT**:
  - a) Alpha motor neurons
  - b) Gamma motor neurons
  - c) Spindle afferent neurons
  - d) Pyramidal neurons
- 96. Which of the following is cut in medio-lateral episiotomy:
  - a) Transverse perineal muscle
  - b) Transverse perineal and bulbospongiosus
  - c) Transverse perineal, bulbospongiosus and levator ani
  - d) Transverse perineal, bulbospongiosus, levator ani and external anal sphincter
- 97. Carcinoma cervix stage III B is treated by:
  - a) Chemo Radiation
  - b) Surgery
  - c) Chemotherapy
  - d) Palliative Radiotherapy
- 98. Contraction of the ciliary muscles:
  - a) Relaxes the lens ligaments and increases the anterior curvature of lens
  - b) Contracts the lens ligaments and increases the anterior curvature of lens
  - c) Relaxes the lens ligaments and decreases the anterior curvature of lens
  - d) Contracts the lens ligaments and decreases the anterior curvature of lens
- 99. All are vasoconstrictor peptides **EXCEPT**:
  - a) Endothelin
  - b) Neuropeptide Y
  - c) Urotensin

- d) Neurotensin
- Leber's hereditary optic neuropathy, which leads to sudden blindness in early adulthood is due to:
  - a) Mutation of nuclear DNA
  - b) Mutation of mitochondrial DNA
  - c) Excision repair defect in nuclear DNA
  - d) None of the above
- 101. K-Complexes are seen in:
  - a) Stage 1 NREM sleep
  - b) Stage 2 NREM sleep
  - c) Stage 3 & 4 NREM sleep
  - d) REM sleep
- 102. Legg-Calve-Perthes disease is commonly seen in age group of:
  - a) 1-5 years
  - b) 5-10 years
  - c) 10-15 years
  - d) 15-20 years
- 103. Sequestered lobe of lung is commonly supplied by:
  - a) Pulmonary artery
  - b) Inter costal artery
  - c) Descending aorta
  - d) Bronchial artery
- 104. World breast feeding week is celebrated:
  - a) From 1<sup>st</sup> to 7<sup>th</sup> of August

  - b) From 1<sup>st</sup> to 7<sup>th</sup> of September
    c) From 15<sup>th</sup> to 22<sup>nd</sup> of August
    d) From 15<sup>th</sup> to 22<sup>nd</sup> of September
- A clinical use of recombinant DNA technology is to have rapidly replicating bacteria to produce large amounts of specific proteins (e.g., hormones). Expression of a eukaryotic gene in prokaryotes involves:
  - a) A Shine-Delgarno (SD) sequence in mRNA
  - b) Absence of introns
  - c) Regulatory elements upstream of the gene
  - d) All of the above

- 106. The primary effect of the consumption of excess protein beyond the body's immediate needs will be:
  - a) Excretion of the excess as protein in the urine
  - b) An increase in the "storage pool" of protein
  - c) An increased synthesis of muscle protein
  - d) An increase in the amount of adipose tissue
- 107. All are risk factors of early onset sepsis **EXCEPT**:
  - a) Choriocamnionitis
  - b) PROM of 2 hours
  - c) Prematurity
  - d) Very low birth weight infant
- 108. In Monteggia fracture dislocation is:
  - a) Fracture of olecranon
  - b) Fracture of radium and ulna
  - c) Distal radioulnar joint dislocation
  - d) Dislocation of radial head with fracture of proximal ulna
- 109. Obsessive-Compulsive Disorder is characterized by possible abnormalities of which of the following brain structures?
  - a) Orbital frontal cortex
  - b) Caudate nucleus
  - c) Globus pallidus
  - d) All of the above
- 110. The commonest complication of Herpes zoster is:
  - a) Scar sarcoid
  - b) Encephalitis
  - c) Guillian Barre Syndrome
  - d) Post herpetic neuralgia
- 111. The procedure rarely done in the management of Recurrent corneal erosion is:
  - a) Phototherapeutic Keratectomy
  - b) Lamellar Keratoplasty
  - c) Anterior stromal puncture
  - d) Superficial Keratectomy

- 112. Preservative used for alcohol estimation in blood is:
  - a) 10% Formalin
  - b) Saturated solution of sodium chloride
  - c) Sodium Fluoride
  - d) Heparin
- 113. Tiagabine is a:
  - a) Inhibitor of GABA aminotransferase
  - b) Act directly on GABA receptors
  - c) Inhibitor of GABA uptake
  - d) Decrease the release of glutamate
- 114. The drug which is a thrombopoietic growth factor is:
  - a) Sargramostim
  - b) Darbepoetin alfa
  - c) Filgrastim
  - d) Oprelvekin
- 115. In different organisms sucrose can be cleaved either by hydrolysis or by phosphorolysis. Calculate the ATP yield per mole of sucrose metabolized by anaerobic glycolysis starting with (i) hydrolytic cleavage and (ii) phosphorolytic cleavage.
  - a) (i) 4 (ii) 5
  - b) (i) 4 (ii) 3
  - c) (i) 4 (ii) 4
  - d) None of the above
- 116. Entry of glucose into skeletal muscle is increased in exercise by:
  - a) Increase secretion of insulin
  - b) Increase transport by insulin dependent GLUT transporters
  - c) Increase transport by insulin independent GLUT transporters
  - d) Increase transport by glucagons dependent GLUT transporters
- 117. While exposing kidney from behind, all of the following nerves are liable to injury **EXCEPT:** 
  - a) Lateral cutaneous nerve of thigh
  - b) Ilioinguinal Nerve
  - c) Subcostal Nerve
  - d) Iliohypogastric Nerve

- 118. All the following hepatitis viruses have a carrier state **EXCEPT**:
  - a) Hepatitis A Virus (HAV)
  - b) Hepatitis B Virus (HBV)
  - c) Hepatitis C Virus (HCV)
  - d) Hepatitis D Virus (HDV)
- 119. Farmer's lung occurs due to
  - a) Sugarcane dust
  - b) Cotton fibre dust
  - c) Mouldy Hay/Grain dust
  - d) Asbestos fibre
- 120. The Primary Health centre in rural areas covers a population of
  - a) 30000
  - b) 40000
  - c) 50000
  - d) 15000
- 121. Peroxisome Biogensis Disorders (PBDs) are of
  - a) Autosomal dominant in nature
  - b) Autosomal recessive in nature
  - c) X-linked recessive in nature
  - d) X-linked dominant in nature
- 122. Characteristic feature of viral pneumonia is:
  - a) Interstitial mononuclear infiltration
  - b) Fibrotic septa
  - c) Intra alveolar proteinaceous exudate
  - d) Hyaline membrane alveolar lining
- 123. Emphysema pathologically involves beyond:
  - a) Bronchii
  - b) Terminal Bronchiole
  - c) Respiratory Bronchiole
  - d) Alveolar Sac

- 124. Analysis of a serum sample provided the following conventional values for urea 40mg/dl and creatinine 1.3mg/dl. The corresponding SI (Systeme International Unit) are:
  - a) 6.6 m mol/L and 120  $\mu$  mol/L
  - b) 3.3 m mol/L and 60  $\mu$  mol/L
  - c) 13.2 m mol/L and 240  $\mu$  mol/L
  - d) None of the above
- 125. Diptheria toxin:
  - a) Acts catalytically
  - b) Releases incomplete polypeptide chains from the ribosome
  - c) Activates translocase
  - d) Prevents release factor from recognizing termination signals
- 126. In which of the following neurological conditions is MRI examination preferred over CT examination?
  - a) Low back pain with focal neurological signs
  - b) Acute head trauma
  - c) Subarachnoid haemorrhage
  - d) Acute parenchymal haemorrhage
- 127. The Platelet Derived Growth Factor (PDGF) is the Oncogene product of:
  - a) sis oncogene
  - b) ras oncogene
  - c) raf oncogene
  - d) flg oncogene
- 128. Which of the following tests is <u>NOT</u> necessary before initiating anticholinesterase and glucocorticoid therapy in a patient diagnosed with myasthenia gravis
  - a) MRI of mediastinum
  - b) Purified Protein Derivative skin test
  - c) Lumbar puncture
  - d) Thyroid function tests
- 129. The strong winged mosquito is:
  - a) Anopheles
  - b) Culex
  - c) Aedes
  - d) Mansonia

- 130. Several studies show that 85% of cases of lung cancer are due to cigarette smoking. It is a measure of:
  - a) Relative risk
  - b) Population-attributable risk
  - c) Attributable risk
  - d) Absolute risk
- 131. Apamine is a peptide toxin present in:
  - a) Viper
  - b) Spider
  - c) Honey bee
  - d) Mushroom
- 132. V-8 protease from Staphylococcus aureus cleaves the peptide bond where N terminal side amino acid present can be:
  - a) Asp, Glu
  - b) Lys, Arg
  - c) Tyr, Trp
  - d) No specificity
- 133. Percentage and dose of thiopentone sodium used for induction of Anaesthesia are:
  - a) 2.5% and 10 milligrams/kg respectively
  - b) 1.5% and 2.5 milligrams/kg respectively
  - c) 2.5% and 2.5 milligrams/kg respectively
  - d) 2.5% and 5 milligrams/kg respectively
- 134. Composition of EMLA (Eutectic Mixture of Local Anaesthetics) is:
  - a) Prilocaine plus lidocaine
  - b) Prilocaine plus procaine
  - c) Procaine plus lidocaine
  - d) Procaine plus tetracaine
- 135. The most common type of lung cancer in Women and Non smokers is:
  - a) Adenocarcinoma
  - b) Squamous cell carcinoma
  - c) Bronchioloalveolar carcinoma
  - d) Large cell carcinoma

- 136. Bilirubin production per Kg/day in a normal new born is:
  - a) 1-3 mg
  - b) 3-6 mg
  - c) 6-10 mg
  - d) 10-15 mg
- 137. Human Transmissible Spongiform Encephalopathies (TSEs) are infectious disease caused by
  - a) RNA Virus
  - b) DNA Virus
  - c) Prion proteins
  - d) None of the above
- 138. The "reattribution model" is primarily suggested for treatment of:
  - a) Somatoform disorders
  - b) Social phobia
  - c) Generalized Anxiety Disorder
  - d) Body Dysmorphic Disorder
- 139. IgG:
  - a) Is found primarily in mucosal secretions
  - b) Has highest molecular weight of all immunoglobulins
  - c) Contains carbohydrate covalently attached to the H chain
  - d) Plays an important role in allergic responses
- 140. Which of the following chemotherapeutic agents works by impairing *de novo* purine synthesis?
  - a) Acyclovir
  - b) 5-fluorouracil
  - c) Methotrexate
  - d) Hydroxyurea
- 141. Short chain fatty acids are produced and absorbed in the:
  - a) Duodenum
  - b) Ileum
  - c) Colon
  - d) Stomach

- 142. A non enzymatic cleave of protein using cynogen bromide specifically cleaves the peptide bond at the carboxyl side of:
  - a) Cysteine
  - b) Leucine
  - c) Methionine
  - d) Tyrosine
- 143. The drug that inhibits the transport of acetylcholine from the cytoplasm in to the vesicles by a vesicle –associated transporter is:
  - a) Reserpine
  - b) Vesamicol
  - c) Cholecystokinin
  - d) Galanin
- 144. A 15 years old girl presented with a midline cystic swelling in the neck of 3 years duration. The swelling was 2 x 3 cms in size and moved on deglutition. Ultrasound scan showed solid and fluid components in the cyst and a normal thyroid gland. FNAC from the cyst showed benign thyroid tissue and clear fluid.

The treatment would be:

- a) Sistrunk's Operation
- b) Excision of the cyst
- c) Aspiration of the cyst
- d) Excision of the cyst and arch of hyoid bone
- 145. All are true about Anterior Ischemic Optic Neuropathy (AION) **EXCEPT::** 
  - a) Most cases are of arteritic type Arteritic AION
  - b) Rapid onset of painless visual loss usually unilateral
  - c) Most common visual field defect is altitudinal visual field defect
  - d) Affected eye shows Relative Afferent Pupillary Defect (RAPD)
- 146. The FAVIC type of Tinea capitis is caused by:
  - a) T. verrucosum
  - b) T. schonleini
  - c) T. mentagrophytes
  - d) T. rubrum

- 147. Regarding schizophrenia and its treatment, the following statements are correct **EXCEPT:** 
  - a) Clozapine is the gold standard drug for treatment-resistant schizophrenia
  - b) Second generation antipsychotics are agonists of 5HT2A and 5HT2C receptors apart from being D2 antagonists
  - c) Schizophrenia patients have higher prevalence of neurological soft signs when compared to healthy subjects
  - d) Disorganized schizophrenia is otherwise referred to as hebephrenic schizophrenia
- 148. In Henoch Schonlein Purpura, the following are true **EXCEPT**:
  - a) Vasculitis of medium size vessels
  - b) Palpable purpura over lower limbs
  - c) Skin biopsy shows leukocytoclastic vasculitis
  - d) Testicular torsion is one of the complication
- 149. Excess dietary protein can cause a rapid excretion of:
  - a) Calcium
  - b) Copper
  - c) Iodine
  - d) Iron
- 150. A human population has a higher than usual percentage of individuals with a genetic disease. The most likely explanation is:
  - a) Natural selection
  - b) Gene flow
  - c) Genetic drift
  - d) All of the above
- 151. Neoadjuvant chemotherapeutic drug of choice in oesophageal carcinoma is:
  - a) Methotrexate
  - b) Doxorubicin
  - c) Cisplatin
  - d) Cyclophosphamide
- 152. Dumping syndrome occurs least with
  - a) Selective vagotomy
  - b) Truncal vagotomy
  - c) Partial gastrectomy
  - d) Highly selective vagotomy

- 153. One of the following is **NOT** a feature of Becker's muscular dystrophy:
  - a) Cardiac involvement
  - b) X-linked inheritance
  - c) Raised Serum Creatinine Kinase levels
  - d) Genetic defect is myosin gene
- 154. The most common feature of pyogenic liver abscess is:
  - a) Fever
  - b) Pain abdomen
  - c) Hepatomegaly
  - d) Jaundice
- 155. Indications for choledochotomy include all **EXCEPT**:
  - a) History of common bile duct stones
  - b) History of jaundice or cholangitis
  - c) Cholecystitis
  - d) Abnormal liver function tests
- 156. Which one of the following is **NOT** Ranson's prognostic criterion in acute Pancreatitis
  - a) Age > 45 years
  - b) White blood cells > 16000/mm<sup>3</sup>
  - c) Blood glucose > 10 mmol/L
  - d) LDH > 700units/L
- 157. Which of the following is not true about target couple?
  - a) They are part of eligible couples
  - b) Couples of reproductive age group
  - c) Eligible couples who have not had children yet
  - d) Couples practicing barrier methods
- 158. Most cases of Ghon's complex progress to:
  - a) Cavitation
  - b) Fibrosis and Calcification
  - c) Tuberculous pneumonia
  - d) Miliary tuberculosis

- 159. The following statements concerning the internal capsule are correct **EXCEPT**:
  - a) It is continuous below with the tectum of the mid Brain
  - b) It has an anterior limb and a posterior limb which are in a straight line
  - c) The Genu and the anterior part of the posterior limb contain the cortico bulbar and cortico spinal fibres
  - d) It is related medially to the lentiform nucleus
- 160. When the neck of the femur is fractured psoas major acts as/to:
  - a) Maintain the vertebral column up right
  - b) Lateral rotators of the femur
  - c) Medial rotators of the femur
  - d) Flexion of the hip joint
- 161. Hepatic lesion diagnosed with high accuracy using nuclear imaging is:
  - a) Hepatocellular carcinoma
  - b) Hepatic adenoma
  - c) Focal nodular hyperplasia
  - d) Cholangiocarcinoma
- 162. Delorme's procedure is used for:
  - a) Solitary rectal ulcer
  - b) Rectal bilharziasis
  - c) Proctalgia fugax
  - d) Rectal prolapse
- 163. Which of the following micronutrient supplementation is recommended during an episode of acute diarrheal illness?
  - a) Iron
  - b) Selenium
  - c) Zinc
  - d) Magnesium
- 164. Chromium containing low molecular protein chromodulin
  - a) Suppresses the effect of insulin
  - b) Competes with calmodulin
  - c) Potentiates the effect of insulin
  - d) None of the above

- 165. Non fluent aphasia is associate with lesions in:
  - a) Wernicke's area
  - b) Broca's area
  - c) Areas 40,41,42
  - d) Angular Gyrus
- 166. A man aged 29 years has an abscess with a strain of beta lactamase positive Staphylococcus aureus. This means that the organism is resistant to:
  - a) Erythromycin, Clarithromycin and Azithromycin
  - b) Penicillin G, Ampicllin and Piperacillin
  - c) Cefazolin, Ceftriaxone and Cefepime
  - d) Vancomycin, Linezolid and Minocycline
- 167. A middle aged man from North East India presented with bilateral neck swellings of 1 ½ months duration. He had 2 episodes of epistaxis last month. Nasopharyngoscopy showed a mass behind the eustachian tube opening.

The most likely diagnosis would be:

- a) Nasopharyngeal Angiofibroma
- b) Nasopharyngeal Bursitis
- c) Nasopharyngeal Carcinoma
- d) Nasopharyngeal minor salivary gland tumour
- 168. Narcolepsy is characterized by all **EXCEPT**:
  - a) Excessive day-time sleeping
  - b) Irresistible non-refreshing sleep episodes
  - c) Sleep Paralysis
  - d) Cataplexy
- 169. Eye-Movement Desensitization and Reprocessing (EMDR) is employed in the treatment of:
  - a) Anorexia Nervosa
  - b) Oculogyric crisis
  - c) Post-traumatic Stress Disorder
  - d) Voyeurism
- 170. Which of the following is not suggestive of rheumatic arthritis:
  - a) Large joints are involved
  - b) Ankylosis of the joint is a frequent complication
  - c) Pain is exquisitely sensitive to aspirin
  - d) Migratory polyarthritis is usual

- All are features of phenylketonuria **EXCEPT**:
  - a) Mental retardation
  - b) Microcephaly
  - c) Hyperpigmentation
  - d) Mousy odour
- 172. All the following are DNA oncogenic viruses, **EXCEPT**:
  - a) Human T-lymphotrophic Virus 1(HTLV-1 virus)
  - b) Papilloma virus
  - c) Epstien Barr Virus (EB Virus)
  - d) Kaposi Sarcoma Herpes Virus (KSHV)
- A 45 year old coal mine worker presents with cutaneous nodules, joint pains and occasional cough with dyspnea. His chest radiograph shows multiple small (1-4 cm) nodules in unilateral lung fields, some of the nodules show cavitations and specks of calcification. Most likely, these features are diagnostic of:
  - a) Sjogren syndrome
  - b) Caplan's syndrome
  - c) Silicosis
  - d) Wegner's granulomatosis
- 174. Causes of transient incontinence in old age are all of the following **EXCEPT:** 
  - a) Acute confusional state
  - b) Detrusor over activity
  - c) Urinary tract infection
  - d) Medication
- 175. The best acceptable operation for a rectal carcinoma at 5 cm from anal verge is:
  - a) Anterior resection
  - b) Abdominal perineal resection
  - c) Posterior resection
  - d) Local resection
- The haemorrhage from ectopic gastric mucosa of Meckels diverticulum is best diagnosed 176. by:
  - a) Barium meal follow through
  - b) Barium enema

  - c) Ultrasonography
     d) Tecnetium <sup>99 m</sup> scanning

- 177. Toxic effect of carbon tetrachloride is due to conversion of CCl <sub>4</sub> to the highly reactive toxic free radical CCl <sub>3</sub> in the:
  - a) Mitochondria
  - b) Smooth endoplasmic reticulum
  - c) Lysosome
  - d) Nucleus
- 178. Specific granules of neutrophil contain all **EXCEPT:** 
  - a) Lysozyme
  - b) Collagenase
  - c) Elastase
  - d) Alkaline phosphatase
- 179. Cataract is produced as an adverse effect by:
  - a) Pilocarpine
  - b) Physostigmine
  - c) Timolol
  - d) Dipivefrin
- 180. The management of acute nicotine poisoning include all **EXCEPT:** 
  - a) Give an alkali
  - b) Gastric lavage
  - c) Activated charcoal
  - d) Induce vomiting