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OPSC

Previous Year Paper
Medical Officer
20 Feb, 2023



1. Select the correct statement about the Cricothyroid joint.
 - (A) It is a synovial joint.
 - (B) It is a primary cartilaginous joint.
 - ☒ (C) It is a secondary cartilaginous joint.
 - (D) It is a fibrous joint.
2. Select the incorrect statement about the ciliary ganglion:
 - (A) It lies between the optic nerve and medial rectus near the apex of the orbit.
 - ☒ (B) It lies between the optic nerve and lateral rectus near the apex of the orbit.
 - (C) Topographically it is connected to the nasociliary nerve.
 - (D) It is functionally connected to the oculomotor nerve.
3. Circumvallate papillae of tongue are supplied by:
 - (A) Lingual nerve
 - (B) Hypoglossal nerve
 - (C) Facial nerve
 - ☒ (D) Glossopharyngeal nerve
4. Lower lateral cutaneous nerve of arm is a branch of:
 - ☒ (A) Musculocutaneous nerve
 - (B) Supraclavicular nerve
 - (C) Axillary nerve
 - (D) Radial nerve
5. Root value of genitofemoral nerve is:
 - ☒ (A) L_{1, 2}
 - (B) L_{2, 3}
 - (C) L_{1, 2, 3}
 - (D) L_{2, 3, 4}
6. Hyperosmolar coma is associated with:
 - (A) Cellular overhydration
 - ☒ (B) Increased colloid osmotic pressure of the interstitial fluid
 - (C) Cellular dehydration
 - (D) Increased hydrostatic pressure of the plasma
7. Normal bone marrow contains% proerythroblast and early normoblast, and% of intermediate and late normoblast cells.
 - (A) 30 ; 70
 - ☒ (B) 70 ; 30
 - (C) 50 ; 50
 - (D) 80 ; 20

JS - 1A/67

(2)

Contd.

8. Occlusion of both carotid arteries between the heart and the carotid sinuses would be expected to produce:
- (A) Increased blood pressure as measured in the femoral artery
 - (B) Decreased heart rate
 - (C) Increased activity in the afferent nerves from the carotid sinuses
 - (D) Decreased activity of the vasomotor centre
9. Which of the following factor has direct stimulatory effect on the medullary respiratory centre?
- (A) Changes in arterial $p\text{CO}_2$
 - (B) Changes in arterial pH
 - (C) Changes in arterial $p\text{O}_2$
 - (D) Changes in the nervous output from the joint proprioceptors
10. Cardiovascular function in neonate is different from that in embryo in that in neonates:
- (A) Left atrial pressure becomes lower than the right atrial pressure
 - (B) Pressure in all cardiac chambers is same through out the cardiac cycle
 - (C) Pulmonary vascular resistance is higher than in embryo
 - (D) Pulmonary vascular resistance is lower than in embryo
11. Which amino acid acts as a buffer at the physiological pH of human body?
- (A) Histidine
 - (B) Lysine
 - (C) Cysteine
 - (D) Threonine
12. Hypokalaemia occurs in all conditions except
- (A) Rapid correction of acidosis
 - (B) Infusion of insulin and glucose
 - (C) Use of loop diuretics
 - (D) Polycythemia
13. The following alteration in enzyme activities can be seen in organophosphorous poisoning: OP
- (A) An increase in acetyl choline esterase activity
 - (B) A decrease in acetyl choline esterase activity
 - (C) A decrease in pseudocholine esterase activity
 - (D) Both (B) and (D)

14. Which of these is not synthesized from glycine ?
 (A) Glutathione
 (B) Creatine
 (C) Pyrimidine
 (D) Haem
15. Which parameter gives the most correct estimation of average blood glucose over the previous 14-21 days ?
 (A) HbA1c
 (B) Advanced glycation end products
 (C) Glycated albumin
 (D) HbA1a
16. All of these are features of carnitine deficiency except:
 (A) Muscle weakness
 (B) Mental retardation
 (C) Hypoglycemia
 (D) Delayed motor development
17. Which of these is a characteristic feature of untreated diabetes mellitus regardless of its type ? DM.
 (A) Hyperglycemia
 (B) Ketoacidosis
 (C) Normal level of C-peptide
 (D) Low level of HbA1c
18. Severe Combined Immuno-deficiency Disease (SCID) can result due to defective:
 (A) Non-homologous end joining repair
 (B) Nucleotide excision repair
 (C) Base excision repair
 (D) Mismatch repair
19. Which one of the following statements concerning the ability of acidosis to precipitate a crisis in sickle cell anaemia is correct ?
 (A) Acidosis increases oxygen affinity of haemoglobin
 (B) Acidosis decreases the solubility of haemoglobin S.
 (C) Acidosis shifts the oxygen dissociation curve to left.
 (D) Acidosis decreases the ability of 2, 3-PBG to bind to haemoglobin.
20. Which Vitamin deficiency can cause dementia ?
 (A) Biotin
 (B) Folic acid
 (C) Thiamine
 (D) Pantothenic acid

21. Which of the following drugs is an irreversible non-selective COX inhibitor?

- (A) Diclofenac
- (B) Indomethacin
- (C) Ketorolac
- ☒ (D) Aspirin

22. Which of the following drug you will choose to treat a case of non-invasive diarrhoea?

- (A) Ciprofloxacin
- ☒ (B) Metronidazole
- (C) Sulfasalazine
- (D) ORS

23. All of the following are used as DMARDs for rheumatoid arthritis except:

- (A) Hydroxychloroquine *h c q*
- (B) Methotrexate *m*
- (C) Anakinra
- ☒ (D) Aspirin

24. Drugs used through TDDS:

- (A) Nitroglycerine
- (B) Aspirin
- ☒ (C) Dopamine
- (D) Morphine

25. All of the following are side effects with haloperidol except:

- (A) Hyperprolactinemia

☒ (B) Hyperglycemia

(C) Rabbit syndrome

(D) Extrapyramidal side effect

26. Primaquine is given in patients with P. vivax malaria for:

- (A) Gametocidal action
- (B) Radical cure
- (C) Clinical cure
- ☒ (D) Chloroquine resistance

27. Drugs of first choice for Type 2 diabetes melitus is:

- (A) Glicazide
- (B) Vildagliptin
- ☒ (C) Metformin
- (D) Acarbose

28. Which of the following diuretic reduces mortality in CHF?

- (A) Triamterine
- ☒ (B) Hydrochlorothiazide
- (C) Spironolactone
- (D) Frusemide

29. All of the following drugs are applied locally in case of scabies except:

- (A) Gamma benzene hexachloride
- (B) Permethrin
- (C) Sulfur
- ☒ (D) Ivermectin

30. Acute intoxication with Methanol is treated with :
- (A) Disulfiram
 - (B) Metronidazole
 - (C) Naltrexone
 - ☒ (D) Fomepizole
31. The following are features of apoptosis except
- (A) Nuclear clumping
 - ☒ (B) Cytoplasmic eosinophilia
 - (C) Apoptotic bodies
 - (D) Membrane damage
32. Amyloid is seen in this type of thyroid carcinoma :
- (A) Papillary
 - (B) Follicular
 - (C) Medullary
 - ☒ (D) Anaplastic
33. Tumour marker in Yolk Sac tumour :
- (A) Beta-HCG
 - ☒ (B) AFP
 - (C) CA-125
 - (D) CA 19-9
34. All are features of Crohn disease except :
- (A) Caseous necrosis
- (B) Transmural inflammation
- (C) Skip lesion ✓
- (D) Cobblestone ✓
35. Barr body is absent in:
- (A) Klinefelter syndrome 44,XYY
 - ☒ (B) Turner syndrome 45,XO
 - (C) Superfemale
 - (D) None of these
36. All are stains for reticulocyte except
- (A) Brilliant cresyl blue
 - ☒ (B) Perls stain
 - (C) New methylene blue
 - (D) Acridine orange
37. All are included under Luminal sub-type of Invasive breast carcinoma except :
- (A) Tubular
 - (B) Lobular
 - ☒ (C) Papillary
 - (D) Medullary
38. Dermatofibrosarcoma protuberans is a tumour that is :
- (A) Malignant
 - (B) Benign
 - ☒ (C) Locally aggressive
 - (D) None of these

39. Psammoma bodies are seen in:-
 (A) ☒ Serous papillary carcinoma of the ovary
 (B) Follicular carcinoma of thyroid
 (C) Endometrioid endometrial carcinoma
 (D) Carcinoma of breast
40. Psoriasis is linked to genes within this HLA locus :
 (A) HLA-A
 (B) ☒ HLA-B
 (C) HLA-C
 (D) HLA-D
41. Which of these is an endogenous etiological causes of SSI in an opened viscus surgery ?
 (A) Staphylococcus aureus
 (B) Staphylococcus epidermidis
 (C) ☒ Streptococcus viridans
 (D) Enterococcus
42. Which of the microbes has the capacity to cause a severe necrotising SSI in a post operative patient ?
 (A) Bacteroides fragilis
 (B) Clostridium perfringens
 (C) ☒ Clostridium perfringens
 (D) Pseudomonas aeruginosa
43. Which of the following drugs will you consider for redosing as surgical antimicrobial prophylaxis if duration of your surgical procedure goes longer than expected ?
 (A) ☒ Penicillins
 (B) Monobactams
 (C) Carbapenams
 (D) Streptogramins
44. Which of these does not form a part of pre-operative SSI bundle care ?
 (A) Maintaining normothermia
 (B) Surgical antimicrobial prophylaxis
 (C) Hair removal
 (D) ☒ Screening for MRSA carrier
45. According to WHO, storage time (time gap between generation and treatment) for infectious waste in a warm climate should not exceed:
 (A) 24 hours
 (B) 48 hours
 (C) ☒ 72 hours
 (D) 96 hours
46. Antiseptic handwash contains what percentage concentration of chlorhexidine gluconate ?
 (A) 2%
 (B) 4%
 (C) ☒ 6%
 (D) 0.5%

47. Which of the following should not be done while handling needles to prevent occupational exposure ?
- (A) ☒ Handwashing
 - (B) Use of vacutainers
 - (C) ☒ Recapping of needles
 - (D) Use of special containers for sharp segregation
48. A healthcare worker was exposed to a source sample positive for HBsAg. For post-exposure prophylaxis of Hepatitis B, if a healthcare worker is a non-responder (titre < 10mIU/mL after 6 doses), what will be your plan of action ?
- (A) Repeat Hepatitis B vaccination
 - (B) H Hepatitis B vaccination booster shot
 - (C) ☒ HBIG single dose 6 weeks apart
 - (D) HBIG 2 doses 4 weeks apart
49. A new operation theatre was just constructed in your hospital. The general cleaning of space followed by high level disinfection is to be done. Which disinfectant will you recommend for the fogging of operating rooms ?
- (A) Ethanol
 - (B) Formaldehyde
 - (C) ☒ Glutaraldehyde
 - (D) Dettol
50. Four days post-operative, a patient develops erythema and pus discharge at the wound site. Wound swab sent for culture shows growth of MRSA (methicillin resistant Staphylococcus aureus); sensitive only to vancomycin and linezolid. After 2 days, another post-op patient in the same ward develops wound discharge and MRSA grows on culture with same susceptibility pattern. What advice will you give in this situation to prevent further rise in infection ?
- (A) Do not use handrub
 - (B) Use same gloves while handling all patients
 - (C) ☒ Isolate the index case
 - (D) Keep the index case in the same ward
51. Death sentence can be awarded by :
- (A) First class Magistrate
 - (B) Second class Magistrate
 - (C) Sessions Court
 - (D) ☒ Chief Judicial Magistrate

52. Davidson body can be detected in :

- (A) Male Hepatocyte
- (B) Female Buccal mucosal cells
- (C) Male Neutrophil
- (D) Female Neutrophil

53. Forensic Entomology deals with the study of :

- (A) Bones
- (B) Soft tissues
- (C) Organs
- (D) Insects

54. Most common preservative used to preserve the specimens for chemical analysis is :

- (A) 10% saline
- (B) Alcohol
- (C) Saturated sodium chloride solution
- (D) Normal solution of saline

55. Suspended animation can be occurring after :

- (A) Electrocution
- (B) Cyanide poisoning
- (C) Burns
- (D) Strychnine poisoning

56. In a completely charred body, at autopsy, medical officer can say that the burns are ante mortem, if he can find :

- (A) Cyanosis of finger nails
- (B) Congestion of organs
- (C) Pale internal organs
- (D) Soot in respiratory passages

57. Which of the following sign will indicate that death was due to ante mortem drowning ?

- (A) Petechial haemorrhages in eyes
- (B) Weed and grass firmly grasped in hands
- (C) Washer woman's skin
- (D) Cyanosis

58. In a case of organophosphate compound poisoning, smell of stomach contents is :

- (A) Fishy
- (B) Mousy
- (C) Bitter almond like
- (D) Kerosene oil like

59. "Leading Question" is allowed in :

- (A) Examination in chief
- (B) Cross examination
- (C) Re-examination
- (D) Police inquest

60. Specific pulmonary injury seen in Bomb explosion is known as :

- (A) Explosive lung
- (B) Frothy lung
- ☒ (C) Blast lung
- (D) Cor-Pulmonale

61. A tattoo mark, described by immediate relatives, is absent on autopsy. Its evidence can be obtained from dissection of :

- (A) Adjacent muscles
- (B) Adjacent fat
- (C) Adjacent subcutaneous tissue
- ☒ (D) Adjacent lymph nodes

62. The first internal sign of putrefaction is usually a discoloration seen on :

- ☒ (A) Under surface of liver
- (B) Bases of lungs
- (C) Base of brain
- (D) Lower surface of kidneys

63. Fracture dislocation of cervical column at the level of 2nd and 3rd or 3rd and 4th cervical vertebra is caused by :

- ☒ (A) Judicial hanging
- (B) Typical hanging

- (C) Atypical hanging
- (D) Complete hanging

64. Aseptic autolysis is found in :

- (A) Adipocere
- (B) Putrefaction
- ☒ (C) Mummification
- (D) Maceration

65. Tattooing present around firearm entry wound is due to :

- (A) Grease
- (B) Hot gases
- (C) Smoke
- ☒ (D) Unburnt powder particles

66. Duration of stay in hospital is used as one of the following health indicator :

- ☒ (A) Disability
- ☒ (B) Morbidity
- (C) Health care delivery
- (D) Utilization rate

67. The mechanism of multiplication of plague bacilli in rat flea is called :

- (A) Propagative
- (B) Cyclo-propagative
- ☒ (C) Cycle-developmental
- (D) Mechanical

3 PM HIV Hib

68. Pentavalent vaccine used under Universal Immunization Program gives protection against:

- (A) Diphtheria, Pertussis, Tetanus, Hepatitis B, Rubella
- (B) Diphtheria, Pertussis, Tetanus, Hib, Measles
- (C) Diphtheria, Pertussis, Tetanus, Hepatitis B, Varicella
- (D) Diphtheria, Pertussis, Tetanus, Hib, Hepatitis B

69. One of the following mode of transmission of Human Plague is rare and exceptional :

- (A) Bite by rodent flea
- (B) Bite by human flea
- (C) Droplet infection
- (D) Direct contact with tissues of infected animal

70. Obesity is often expressed in terms of :

- (A) Body Mass Index (BMI)
- (B) Ponderal Index
- (C) Broca's Index
- (D) Corpulence Index

71. The numbers included in the names of Cu-T refer to :

- (A) Weight of Copper

(B) Length of Copper

(C) Surface areas of Copper

(D) Breadth of Copper

72. Which one of the following statement is related to simple random sampling ? SN3

- (A) Greatest number of possible samples is provided
- (B) The number of possible samples of greatly reduced
- (C) Each portion of the sample represents a corresponding strata of the universe
- (D) Every 10th unit is picked up at regular interval

73. Which of the following statement is true about disaster ?

- (A) Triage is not carried out at the site of disaster <
- (B) Epidemics rarely results from disaster
- (C) People who are indoors keep calm and stay below the stairs
- (D) Chlorination is the best way of disinfecting water following disaster x

74. One of the characteristic of rash of Chicken Pox is :

- (A) Deep seated
- (B) Begins behind the ear
- (C) Pleomorphism
- (D) Often becomes confluent and blotchy

75. Early initiation of breastfeeding begins within :

- (A) 30 minutes
- (B) 60 minutes
- (C) 90 minutes
- (D) 120 minutes

76. Children between 0 to 18 years are the beneficiaries of :

- (A) ICDS
- (B) RMNCH + A
- (C) RBSK
- (D) RKSK

77. Total number of prophylactic doses of vitamin A solution given to children up to five years is :

- (A) 3
- (B) 6
- (C) 9
- (D) 12

78. The best known example of occult filariasis is :

- (A) Tropical Pulmonary eosinophilia

(B) Acute dermato-lymphangioadenitis

(C) Elephantiasis

(D) Epididymo-orchitis

79. One of the following is the extreme form of Diabetes Mellitus :

(A) Type 1

(B) Type 2

(C) Gestational Diabetes Mellitus

(D) Malnutrition related Diabetes Mellitus

80. Blood group having no antigen is :

(A) A

(B) B

(C) AB

(D) O

81. Target (Iris) lesions are seen in :

(A) Urticaria

(B) Erythema Multiforme

(C) Scabies

(D) Lichen planus

82. Multiple erythematous annular lesions with peripheral collarette of scales arranged predominantly over trunk are seen in :

(A) Pityriasis versicolor

(B) Pityriasis rubra

(C) Pityriasis rosea

(D) Pityriasis lichenoides chronica

Contd.

83. Wickham's striae are seen in
- ☒ (A) Lichen nitidus
 - (B) Lichenoid eruption
 - (C) Lichen striatus
 - (D) Lichen planus
84. Primary bullous lesions are seen in which type of syphilis?
- (A) Primary
 - ☒ (B) Secondary
 - (C) Tertiary
 - (D) Congenital
85. All are true about Leptra bacilli except
- (A) Long generation time
 - (B) Can be grown in foot pad of mice
 - ☒ (C) Cultivable in artificial media
 - (D) Schwann cell is the target cell
86. On a 2nd trimester ultrasound scan, the fetal brain is showing banana sign and lemon sign. What is the likely diagnosis?
- (A) Arnold Chiari malformation
 - ☒ (B) Dandy walker malformation
 - (C) Agenesis of corpus callosum
 - (D) Holoprosencephaly
87. A 10 year old child has mixed cystic and solid mass in suprasellar region with foci of calcification. What is the most likely possibility?
- (A) Pituitary adenoma
 - (B) Pilocytic astrocytoma
 - ☒ (C) Craniopharyngioma
 - (D) Germ cell tumor
88. Which of the following is not a feature of Chron's disease in small bowel follow through examination?
- (A) String sign
 - (B) Cobble stone appearance
 - (C) Aphthous ulcers
 - ☒ (D) Contracted and pulled up cecum
89. A 15 year old patient presented with knee swelling. Plain radiograph reveals illdefined lytic lesion involving distal metaphysis of femur with 'Codman triangle' appearance of periosteal reaction and illdefined density in adjacent soft tissue. What is the most likely diagnosis?
- (A) Ewing's sarcoma
 - (B) Osteomyelitis
 - ☒ (C) Osteosarcoma
 - (D) Soft tissue sarcoma

90. What is true regarding CSF signal intensity in MRI ?

- (A) Hyperintense on T1W sequence
- (B) Hypointense on FLAIR sequence
- (C) Hypointense on GRE sequence
- (D) Hypointense on T2W sequence

91. Pericoronal abscess related to disto-angular impacted lower third molars the infection may spread to :

- (A) Submasseteric space
- (B) Sublingual space
- (C) Submental space
- (D) Buccal space

92. Mallampati's grading is used in relation to :

- (A) Hard palate
- (B) Soft palate
- (C) Dentition
- (D) Facial skeleton

93. A patient complains of pain in TMJ area on mastication, his muscles of mastication are tender and an

audible click is there, these features are characteristic of :

- (A) MPDS
- (B) Traumatic subluxation
- (C) Rheumatoid arthritis
- (D) Rheumatic arthritis

94. A mandibular dental infection which perforates the buccal cortical plate above the muscle attachment will cause abscess of :

- (A) Buccal space
- (B) Masseter space
- (C) Vestibular sulcus
- (D) Masticatory space

95. Anatomical structure injured in excision of Ranula :

- (A) Lingual Vein
- (B) Lingual Artery
- (C) Sub-Mandibular duct
- (D) Parotid duct

96. Commonest cause of Non Traumatic Chest Pain in Final discharge diagnosis is :

- (A) Gastrointestinal
- (B) Ischemic Heart Disease
- (C) Chest wall Syndromes
- (D) Pleuritic

97. Painful condition which responds to Tricyclic Antidepressants is :

- (A) ☒ Post Herpetic Neuralgia
- (B) Tension Headache
- (C) Diabetic Neuropathy
- (D) All of these

98. MMR vaccination gives protection against which diseases ?

- (A) Chicken Pox
- (B) Measles
- (C) Mumps
- (D) ☒ Measles, Mumps and Rubella

99. Anosmia is :

- (A) An inability to hear
- (B) An inability to see
- (C) An inability to taste
- (D) ☒ An inability to smell

100. Which of the following is the largest organ in the human body ?

- (A) Liver
- (B) Heart
- (C) ☒ Skin
- (D) Lung

101. What does blunting of the costophrenic angles suggest ?

- (A) Pneumothorax
- (B) Consolidation

(C) Collapse

(D) ☒ Pleural effusion

102. Anti-TSH receptor antibodies are most specific to which disease ?

- (A) Graves Disease
- (B) ☒ Hashimotos Thyroiditis
- (C) Post Viral Thyroiditis
- (D) Atrophic Thyroiditis

103. Which of the following is a cause of glucose in urine ?

- (A) ☒ Fanconis syndrome
- (B) Glomerulonephritis
- (C) Urinary Tract Infection
- (D) Lupus Nephritis

104. Among women younger than 60 who die from cancer, which of the following is the most common organ of origin ?

- (A) ☒ Breast
- (B) Cervix
- (C) Colon
- (D) Blood

105. All of the following medications may be useful in the treatment of benign prostatic hypertrophy except :

- (A) Alfuzosin
- (B) Bosentan
- (C) Finasteride
- (D) ☒ Sildenafil

106. All of the following are typically increased in a patient with hemolytic anemia except.

- (A) Aspartate aminotransferase (AST)
- (B) Haptoglobin
- (C) LDH
- (D) Reticulocytes

107. All of the following diseases are more common in women than men except.

- (A) Depression
- (B) Obesity
- (C) Rheumatoid arthritis
- (D) Type 1 diabetes mellitus

108. Which of the following cardiovascular conditions is a contraindication to pregnancy?

- (A) Atrial septal defect without Eisenmenger syndrome
- (B) Idiopathic pulmonary arterial hypertension
- (C) Marfan syndrome
- (D) Mitral regurgitation

109. All of the following are changes in the cardiovascular system seen in pregnancy except.

- (A) Decreased blood pressure

- (B) Increased cardiac output
- (C) Increased heart rate
- (D) Increased systemic vascular resistance

110. All of the following drugs exert an antipyretic effect through inhibition of cyclooxygenase except.

- (A) Acetaminophen
- (B) Aspirin
- (C) Celecoxib
- (D) Prednisone

111. Which of the following infectious organisms is most likely to cause relative bradycardia during a febrile event?

- (A) *P. aeruginosa*
- (B) *Salmonella typhi*
- (C) *Staphylococcus aureus*
- (D) *S. pneumoniae*

112. Which of the following immunizations is required for entry into many countries in Sub-Saharan Africa?

- (A) Cholera
- (B) Hepatitis A
- (C) Meningococcus
- (D) Yellow fever

113. A 20-year-old woman is 38 weeks pregnant and presents for her first evaluation. She is diagnosed with C trachomatis infection of the cervix. Upon delivery, what complication is her infant most at risk for?

- (A) Jaundice
- (B) Hydrocephalus
- (C) Hutchinson triad
- (D) Conjunctivitis

114. From a pathophysiologic perspective, all of the following are upregulated in heart failure with reduced ejection fraction except:

- (A) Angiotensin II
- (B) B-type natriuretic peptide (BNP)
- (C) Calcium uptake into the sarcoplasmic reticulum
- (D) Norepinephrine

115. All of the following are classic definitional features of the tetralogy of Fallot except:

- (A) Obstruction of RV outflow
- (B) Overriding aorta
- (C) R. V. hypertrophy
- (D) Tricuspid atresia

116. All of the following are typically characterized as an obstructive lung disease except:

COPD

- (A) Asbestosis
- (B) Asthma
- (C) Bronchiectasis
- (D) Chronic bronchitis

117. Chronic silicosis is related to an increased risk of which of the following conditions?

- (A) Infection with invasive Aspergillus
- (B) Infection with Mycobacterium tuberculosis
- (C) Rheumatoid arthritis
- (D) All of these

118. Which of the following is a potential etiology for ischemic acute renal failure?

- (A) Apoptosis and necrosis of tubular cells
- (B) Decreased glomerular vasodilation in response to nitric oxide
- (C) Increased glomerular vasoconstriction in response to elevated endothelin levels
- (D) All of these

119. Which of the following has a well established association with gastroesophageal reflux? h.b.n.D

- (A) Chronic sinusitis
- (B) Dental erosion
- (C) Pulmonary fibrosis
- (D) Recurrent aspiration pneumonia

120. Which of the following autoantibodies is least likely to be present in a patient with systemic lupus erythematosus? SLn

- (A) Anti-dsDNA
- (B) Antinuclear antibodies ma
- (C) Anti-La (SS-B)
- (D) Antiphospholipid

121. When do you consider administering epinephrine in a neonate during resuscitation?

- (A) Heart rate remains at < 60 /min despite effective compressions and ventilation
- (B) Heart rate remains at < 100 /min despite effective compressions and ventilations
- (C) Heart rate does not improve after 30 sec with bag and mask ventilation
- (D) Infants with severe respiratory depression fail to respond to positive-pressure ventilation via bag and mask

122. At what age should a typical child exhibit Social Smile and Stranger anxiety?

- (A) 2 months and 6 months respectively
- (B) 1 month and 6 months respectively
- (C) 6 months and 12 months respectively
- (D) 6 months and 9 months respectively

123. A 5 year-old-child brought to the hospital with H/O loose stools. His mother says he is irritable and drinks water hastily when given. O/E eyes are sunken and during the skin pinch test, the skin retracted within 2 sec but not immediately. What is the treatment for the child?

- (A) Administer the first dose of IV antibiotic and immediately refer to a higher centre
- (B) Give the oral fluids and ask the mother to continue the same and visit again the next day
- (C) Give zinc supplementation and ORS only and ask mother to come back if some danger signs develop
- (D) Consider severe dehydration, start IV fluids, IR antibiotics and refer to a higher centre

124. Which of the following is the most common preventable cause of mental retardation?

- (A) Congenital hypothyroidism
- (B) Inborn errors of metabolism
- (C) Congenital hyperthyroidism
- (D) Down's syndrome

125. Which of the following is the most common cyanotic congenital heart disease?

- (A) Tetralogy of fallot
- (B) Transposition of Great arteries
- (C) Tricuspid atresia
- (D) Total anomalous pulmonary venous connection

126. Which of the following is not a feature of cerebral palsy?

- (A) Hypotonia
- (B) Microcephaly
- (C) Ataxia
- (D) Flaccid paralysis

127. Shake test can be done to know:

- (i) Whether vaccine had been frozen at some point of time in cold chain
- (ii) Done to check cold damage to vaccine

- (iii) On shake test if sedimentation occurs, vials should be discarded irrespective of their expiry date
- (iv) Used for DPT, DT, TT OR Hepatitis B

- (A) (i), (iii), (iv) are correct
- (B) (i), (ii), (iii) are correct
- (C) (ii), (iii), (iv) are correct
- (D) All of these

128. Dose of iron and folic acid in a 4 year-old-child with some palmar pallor

- (A) 2 tablets of IFA pediatric tablet (100 mcg ferrous sulphate and 100 mcg folic acid)
- (B) 1 tablet of IFA pediatric tablet (100 mcg ferrous sulphate and 100 mcg folic acid)
- (C) 3 tablets of IFA pediatric tablet (100 mcg ferrous sulphate and 100 mcg folic acid)
- (D) 4 tablets of IFA pediatric tablet (100 mcg ferrous sulphate and 100 mcg folic acid)

129. An infant was noted to have occasional episodes of cyanosis. Chest X-ray revealed a boot shaped appearance of the cardiac silhouette. What is the likely diagnosis?

- (A) Transposition of great arteries
(B) Truncus arteriosus
(C) Tricuspid atresia
(D) Tetralogy of fallot

130. You suspected a vesicoureteric reflux in a girl with a history of recurrent urinary tract infections. What is the investigation of choice to confirm this condition?

- (A) USG abdomen
(B) MRI
(C) Voiding cystourethrogram
(D) DMSA scan

131. During autologous blood transfusion patients are made to pre-donate their own blood how many days / weeks before surgery?

- (A) 7 days
(B) 3 weeks
(C) 4 days
(D) 2 weeks

132. Suture marks are minimal if:

- (A) Sutures are close to the wound margin

(B) If sutures are removed within 3 days

(C) Sutures are not placed under tension

(D) All of these

133. Metabolic abnormality occurring after massive normal saline infusion?

- (A) Hyperchloremic anion gap acidosis
(B) Hypochloremic anion gap acidosis
(C) Hyperchloremic anion gap
(D) Hypochloremic anion gap alkalosis

134. The "Swirl Sign" in CT scan is an ominous sign depicting?



- (A) Coagulated Blood
(B) Midline shift
(C) Haemorrhage due to Malignancy
(D) Ongoing Haemorrhage

135. A 48 year-old-man presents to the ER with anuria for 1 day and breathlessness. On evaluation his serum creatinine is 9.0 and serum potassium is 5.5. Immediately after resuscitation, a bedside procedure is performed. Following which he improved significantly over the next 2 days. Post procedure x-ray KUB is as below. What is the procedure which has been performed in this given radiograph?



- (A) Bilateral PCN insertion
- (B) Bilateral DJ stenting
- (C) Bilateral URS
- (D) Bilateral PCNL

136. All of the following statements regarding primary survey are correct except

(A) All trauma patients should have

their cervical spine motion restricted

- (B) A pelvic binder should apply to all hemodynamically unstable patients
- (C) Higher BP > 90 mmHg should be targeted if a head injury is suspected
- (D) Excessive intravenous crystalloids should be infused

137. Optimal ratio for PRBC : FFP : RDP for massive transfusion protocol :

- (A) 1 : 2 : 1
- (B) 1 : 1 : 2
- (C) 2 : 1 : 1
- (D) 1 : 1 : 1

138. False statement regarding imaging in bowel obstruction ?

- (A) Volvuli convvintes (folds) are seen in small bowel
- (B) Haustrations span the entire diameter of bowel
- (C) Large bowel is obstructed if diameter is > 5-8 cm
- (D) Oral Contrast CT is not needed in suspected bowel obstruction

139. All of the following statements are correct regarding secondary survey except:

- (A) AMPLE history should be obtained
- (B) Head to toe examination done
- (C) Vaginal examination with speculum should be done in women with pelvic fracture
- (D) A nasogastric tube insertion is not necessary in an intubated patient

140. Base deficit in Class III shock in an injured patient?

- (A) -2 to -6 mEq/L
- (B) 0 to -2 mEq/L
- (C) -6 to 10 mEq/L
- (D) -10 or more mEq/L

141. All of the following are components of Cushing triad except:

- (A) Hypertension
- (B) Bradycardia
- (C) Tachycardia
- (D) Irregular respiration

142. A 30 year-old-female patient was brought to the ER after a head injury. On examination the patient is confused and opens her eyes on verbal command. Patient moves her left hand to localize pain and withdraws right hand on painful

stimulus. Calculate GCS score for this patient:

- (A) 11
- (B) 12
- (C) 13
- (D) 14

143. All of the following are correct regarding skull base fracture except:

- (A) Otorrhea or rhinorrhoea are signs of skull base fracture
- (B) Skull base fracture may be complicated by pituitary dysfunction, cranial nerve deficit
- (C) Blind nasogastric tube placement should be done immediately
- (D) CSF leak may resolve spontaneously

144. Which of the following benign breast diseases is associated with moderately increased risk of breast carcinoma?

- (A) Papilloma with a fibrovascular core
- (B) Hyperplasia, moderate or florid, solid or papillary
- (C) Atypical ductal hyperplasia
- (D) Squamous metaplasia

145. Which of the following genes is most commonly associated with Hereditary breast cancer?

- (A) BRCA 1
- (B) BRCA 2
- (C) P53
- (D) PTEN

146. A 40 year-old female, gym instructor by profession presented to Surgery OPD with chief complaints of chest pain and dysphagia heightened post intense exercise sessions occasionally. Patient was initially referred to a cardiologist for chest pain which ruled out cardiac cause as the cause of pain. Suspecting an esophageal disorder you ordered a barium esophagogram which is shown below:



- (A) Ineffective esophageal motility
- (B) Nutcracker esophagus

- (C) Achalasia type 2
- (D) Diffuse esophageal spasm

147. Hinchey's class 4 for diverticular perforation is:

- (A) Contained abscess
- (B) Gross purulent peritonitis
- (C) Fecal peritonitis
- (D) Diverticulitis without perforation

148. A 60-year-old man presented with fever, chills, and dysuria. On the DRE examination, his prostate was tender and boggy. His PSA level was 7.4 ng/dl. What is the next best step in the management of this patient?

- (A) Repeat PSA
- (B) Catheterization and prostatic massage
- (C) TURP-guided biopsy
- (D) Antibiotic therapy

149. A 50-year-old male patient with severe upper Gi bleed came to the ER. The medical officer wanted to use Esophageal balloon tamponade with a Sengstaken-Blakemore Tube. The tube should be decompressed to prevent necrosis:

- (A) 90 min
- (B) 3 hours
- (C) 6 hours
- (D) 12 hours

150. A 40-year-old male alcoholic with abdominal pain had a severe acute pancreatitis. CECT abdomen showed multiple peri-pancreatic collections with 20% non-enhancing areas of parenchyma. CTSI score will be :

- (A) 5
- ☒ (B) 8
- (C) 10
- (D) 6

151. Which of the following is associated with ankylosing spondylitis ?

- (A) HLA DR2
- (B) HLA DR4
- ☒ (C) HLA B27
- (D) HLA B11

152. Commonest cause of scoliosis in children is :

- (A) Unequal limb length
- (B) Hemivertebra
- (C) Marfan syndrome
- ☒ (D) Idiopathic

153. Which of the following arise from epiphysis ?

- (A) Osteosarcoma
- ☒ (B) Ewing sarcoma
- (C) Osteoclastoma
- (D) Multiple myeloma

154. Which is not seen in achondroplasia ?

- ☒ (A) Mental retardation
- (B) Autosomal dominant ^{AD}
- (C) Mutation in chondroblast maturation
- (D) Trident hand

155. Which of the following does not have association with Developmental Dysplasia of Hip (DDH) ?

- (A) First born
- (B) Club foot
- (C) Oligohydramnios
- ☒ (D) Female child

156. Which of the following is not a classification used for femoral neck fractures ?

- (A) Garden Classification
- (B) Pauwels Classification
- ☒ (C) AO/OTA Classification
- (D) Salter Harris Classification

157. What is the chemical composition of plaster of Paris ?

- (A) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- (B) $\text{CaSO}_4 \cdot 1\text{H}_2\text{O}$
- ☒ (C) $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$
- (D) $\text{CaSO}_4 \cdot 4\text{H}_2\text{O}$

158. Which nerve is involved in carpal tunnel syndrome?

- (A) Ulnar nerve
- (B) Radial nerve
- ☒ (C) Median nerve
- (D) Anterior interosseous nerve

159. Which of the following is the most common organism identified in Osteomyelitis?

- (A) Streptococcus pneumoniae
- ☒ (B) Staphylococcus aureus
- (C) Enterobacteriaceae
- (D) Streptococcus pyogenes

160. Fallen fragment sign is pathognomonic of:

- ☒ (A) Aneurysmal bone cyst ABC
- (B) Unicameral bone cyst
- (C) Osteochondroma
- (D) Osteosarcoma

161. A 10 year-old-boy has had ear problems for many years. He has a fever and you also notice that his mastoid bone is warm and tender to touch. Which of the following is the best course of action?

- (A) Refer routinely to ENT
- (B) Prescribe topical eardrops
- (C) Prescribe antibiotics
- ☒ (D) Refer urgently to ENT

162. If the patient can hear a whispered voice 30 cm away from the ear, the patient has:

- ☒ (A) Normal hearing
- (B) Sensorineural hearing loss
- (C) Conductive hearing loss
- (D) Congenital hearing loss

163. Regarding the tonsil, all of the following are true except:

- ☒ (A) Palatoglossus lies anterior to the tonsil
- (B) The tonsil is supplied by the tonsillar artery, a branch of the facial artery
- (C) The internal carotid artery lies 2.5 cm behind and lateral to the tonsil
- (D) Contains 20 crypts

164. During a hunting trip a bullet affect one of the hunters in his neck by accident, he developed neck swelling and hoarsed voice, what could be the cause of his voice change?

- (A) - Unilateral vocal cord palsy
- (B) Bilateral vocal cord palsy
- (C) Laryngeal oedema
- ☒ (D) All of these

165. A three year old Mongol boy gets high fever then associated with difficult swallowing and strider. the child was sitting, cannot sleep and drooling saliva, the resident pediatrician sent for lateral cervical X-ray then he asked your opinion about what was looking as a thumb in front of the hypopharynx, your diagnosis was :

- (A) Acute pharyngitis
- (B) Acute simple laryngitis
- (C) Laryngo-tracheo-bronchitis
- (D) ☒ Acute epiglottitis

166. D-shaped pupil occurs in :

- (A) Iridocyclitis
- (B) Iridodonesis
- (C) Cyclodialysis
- (D) ☒ Iridodialysis

167. Cherry red spot is seen in all of the following except :

- (A) CRAO ✓
- (B) Berlins edema
- (C) ☒ CRVO
- (D) Tay Sachs ds. ✓

168. Which of the following is not a peripheral retinal degeneration ?

- (A) Lattice degeneration

☒ Snail track degeneration

(C) Photoretinitis

(D) White without pressure

169. Excessive watering due to trichiasis is called as :

- (A) Epiphora
- (B) Acute dacryocystitis
- (C) ☒ Hyperlacrimation
- (D) Chronic dacryocystitis

170. Snow Banking is Seen in :

- (A) ☒ Endophthalmitis
- (B) Anterior uveitis
- (C) Parsplanitis
- (D) Choroiditis

171. The most common cause of abnormal vaginal bleeding in adolescents is :

- (A) ☒ Anovulation
- (B) Fibroid uterus
- (C) Endometriosis
- (D) Cervical dysplasia

172. During normal pregnancy, which of the following is not changed appreciably ?

- (A) Tidal volume
- (B) Minute ventilatory volume
- (C) Residual volume
- (D) ☒ Forced vital capacity

173. The estrogen component in the combined oral contraceptive pill is

- (A) Estradiol valerate
- ☒ (B) Ethinyl estradiol
- (C) Conjugated estrogens
- (D) Micronized estradiol

174. Which of the following progestins is not a component of the combined oral contraceptive pill?

- (A) Desogestrel
- (B) Levonorgestrel
- (C) Norgestrel
- ☒ (D) Medroxy progesterone acetate

175. Which of the following is not a feature of the polycystic ovarian syndrome?

- Yes
- (A) Raised LH, raised FSH
 - ☒ (B) Raised LH, low to normal FSH
 - (C) Normal 17 hydroxy progesterone
 - (D) Hyperinsulinemia

176. Wet mount examination of vaginal discharge can identify the following infections except:

- ☒ (A) Bacterial vaginosis
- (B) Trichomoniasis
- (C) Chlamydia
- (D) Candidiasis

177. Which of these antihypertensive drugs is contra-indicated during pregnancy?

- C12 H4m
- (A) Nifedipine
 - (B) Labetalol
 - ☒ (C) Enalapril
 - (D) Hydralazine

178. Which of the following is not a component of active management of the 3rd stage of labour?

- (A) Controlled cord traction
- (B) Administration of a uterotonic drug
- ☒ (C) Uterine massage
- (D) Early cord clamping

179. Which of the following is not useful to prevent or treat postpartum haemorrhage?

- (A) Methylergonovine
- ☒ (B) Prostaglandin E2
- (C) Prostaglandin F2α
- (D) Prostaglandin E1

180. Which of the following is not an indicator of the severity of hypertensive disorders of pregnancy?

- (A) Visual disturbances
- (B) Reduced fetal movements
- (C) Thrombocytopenia
- ☒ (D) Headache

181. The lowest term pregnancy rate after tubal recanalization surgery following tubal sterilization is associated with which of the following tubal sterilization procedures?

- (A) Spring-loaded clip
- (B) Electrocoagulation
- (C) Ring occlusion
- ☒ (D) Pomeroy's ligation

182. Which of the following is not a warning features to discontinue combined oral contraceptive pills?

- COP
- (A) Chest pain or shortness of breath
 - (B) Jaundice
 - (C) Throbbing headache
 - ☒ (D) Nausea

183. The most reliable ultrasonographic parameter of estimated fetal weight is:

- (A) Biparietal diameter
- ☒ (B) Femur length
- (C) Abdominal circumference
- (D) Head circumference

184. Which of the following is an absolute contraindication to combined oral contraceptive pill use?

- (A) Migraine headache

(B) Uterine leiomyoma

☒ (C) ~~Thromboembolic disorders~~

(D) Hypertension

185. Which of these drugs is not useful in the treatment of hirsutism in a girl with polycystic ovarian disease?

- (A) Levonorgestrel
- ☒ (B) Spironolactone
- (C) Flutamide
- (D) Finasteride

186. HIV transmission to the baby from the infected mother can be reduced by all except:

- (A) Antiretroviral therapy to the mother during pregnancy
- ☒ (B) Delivery by elective caesarean section
- (C) Breast feeding
- (D) Antiretroviral therapy to the neonate for 6 weeks

187. The sensitivity of a single Pap smear to diagnose cervical dysplasia or cancer is:

- (A) 25-30%
- (B) 50-60%
- (C) 70-80%
- ☒ (D) > 90%

188. Which of these is not considered a risk factor for the development of endometrial cancer?
- (A) Obesity
(B) Oral contraceptive use
(C) Delayed menopause
(D) Nulliparity
189. The single most common cause of maternal mortality in India is:
- (A) Unsafe abortion
(B) Hypertensive disorders of pregnancy
(C) Infection
(D) Postpartum haemorrhage
190. Prevention or treatment of osteoporosis in postmenopausal women may be achieved by all except:
- (A) Calcium and Vitamin D supplementation
(B) Bisphosphonates
(C) Multivitamin supplementation
(D) Estrogen and progestin hormone replacement therapy
191. Which of the following is directly proportional to the potency of inhalation anesthetic agents?
- (A) Blood gas partition coefficient
(B) Oil gas partition coefficient
(C) Both (A) and (B)
(D) None of these
192. Which of the following does not belong to category of steroidal muscle relaxants?
- (A) Atracurium
(B) Vecuronium
(C) Rocuronium
(D) Pancuronium
193. You have received a person in the casualty, and he is bleeding profusely through a lacerated wound, he is drowsy but still arousable. What will be your first priority while dealing with this patient?
- (A) Airway
(B) Breathing
(C) Circulation
(D) Analgesia
194. A parturient has undergone a cesarean section under spinal anesthesia, 12 hours later the patient starts having severe pulsatile headache. What can be the possible diagnosis?
- (A) Bacterial meningitis
(B) Chemical meningitis
(C) Post dural puncture headache
(D) All of these

195. Sensation of pain does not travel in which type of nerve fibres?

- (A) Adelta
- (B) Abeta
- ☒ (C) C fibres
- (D) None of these

196. Modified Electro Convulsive Therapy is commonly given in:

- (A) Hysteria
- (B) Conversion Disorder
- ☒ (C) Depression with Suicidal Tendency
- (D) Chronic Schizophrenia

197. According to Wechsler Intelligence scale scoring, average IQ of a normal child is:

- (A) 55
- (B) 70
- ☒ (C) 95
- (D) 120

198. Depot Antipsychotic preparations are available for which of the following?

- (A) Olanzapine
- (B) Haloperidol
- ☒ (C) Risperidone
- (D) All of these

199. Bruxism is a term used for:

- (A) Sleep Walking
- ☒ (B) Grinding of teeth during sleep
- (C) Sleep Apnea
- (D) Nocturnal enuresis

200. Bipolar Affective Disorder includes all except:

- ☒ (A) Recurrent depressive episodes
- (B) Recurrent manic episodes
- (C) Depressive episodes and hypomania
- (D) Manic episodes and depressive episodes

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