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Test Booklet Series

**A**

**TEST BOOKLET**

**MEDICAL OFFICER  
(ASSISTANT SURGEON)**

T. B. C. : AS / 2019 / 2

Sl. No. **1765**

Time Allowed : 3 Hours

Maximum Marks : 200

**: INSTRUCTIONS TO CANDIDATES :**

1. IMMEDIATELY AFTER COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your Roll No. on the Test Booklet in the Box provided alongside. **DO NOT** write anything else on the Test Booklet.
4. YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.
5. This Test Booklet contains 200 items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose **ONLY ONE** response (answer) for each item (question).
6. You have to mark (darken) all your responses (answers) **ONLY** on the separate Answer Sheet provided by using **BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. **There will be no negative markings for wrong responses (answers).**
8. Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the Answer Sheet issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet**, after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

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NJ - 1A/23

(Turn over)

SEAL

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1. Which of the following segment does the right lobe of liver contain ?
  - (A) V, VI, VII, VIII
  - (B) I, II, III, IV
  - (C) IV, V, VI, VII, VIII
  - (D) I, II, III, IV, V
2. Spiral valves of heister are present in :
  - (A) Cystic duct
  - (B) Preampullary part of bile duct
  - (C) Fundus of gallbladder
  - (D) Hepatic artery
3. Valoeon sheath referes to :
  - (A) Fibrous sheath around broncho-pulmonary segments
  - (B) Condensation of connective tissue around splenic vessels at hilum
  - (C) Fibrous sheath surrounding hepatic artery, bile duct, portal vein in each liver segment
  - (D) None of these
4. Brachial cyst develops due to the persistence of :
  - (A) First branchial cleft
  - (B) Third branchial cleft
  - (C) Cervical sinus
  - (D) Fourth branchial cleft
5. Inferior thyroid vein drains into :
  - (A) Internal jugular vein
  - (B) Brachiocephalic vein
  - (C) SVC
  - (D) External jugular vein
6. Synaptic conduction is mostly orthodromic because :
  - (A) Dendrites cannot be depolarized
  - (B) Once repolarized, an area cannot be depolarized
  - (C) The strength of antidromic impulse is less
  - (D) Chemical mediator is localised only in presynaptic terminal
7. Function of phospholambanis :
  - (A) Regulates Na k pump
  - (B) Transports calcium out of mitochondria
  - (C) Binds actin with myosin
  - (D) Collect calcium into the sarcoplasmic reticulum

8. TRUE regarding human heart :
- (A) Conduction of impulse from endocardium to inwards
  - (B) During exercise duration of systole is reduced more than diastole
  - (C) HR increases with parasympathetic denervation
  - (D) Vagal stimulation increase force of contraction
9. Direct Fick's method of measuring cardiac output requires estimation of :
- (A) O<sub>2</sub> content of arterial blood
  - (B) O<sub>2</sub> content of venous blood
  - (C) O<sub>2</sub> consumption per unit time
  - (D) All of these
10. Volume receptors are :
- (A) Affected by total cardiovascular output
  - (B) Stimulated by atrial systole and diastole
  - (C) Stimulated by left ventricular contraction
  - (D) Stimulated by aortic pressure
11. Fluoroacetate inhibits :
- (A) Citrate synthase
  - (B) Succinate dehydrogenase
  - (C) Aconitase
  - (D) Alpha ketoglutarate
12. Immediate precursor of ketone bodies :
- (A) Acetyl - CoA
  - (B) HMG - CoA
  - (C) Acetoacetyl - CoA
  - (D) Acyl - CoA
13. "Classical phenylketonuria" is caused by the deficiency of :
- (A) Phenylalanine transaminase
  - (B) Phenylalanine hydroxylase
  - (C) Tyrosinase transaminase
  - (D) Tyrosinase hydroxylase
14. A child develops plaster on exposure to sunlight. Irregular dark spots on the skin are also found. He is very likely to have a defect in which mechanism ?
- (A) Nucleotide excision repair
  - (B) Mismatch repair
  - (C) Recombination repair
  - (D) Thymine dimer

15. Adenosine phosphoribosyltransferase is involved in:
- Denovo purine synthesis
  - Purine degradation
  - Salvage synthesis of purine nucleotides
  - None of these
16. Carboxylation of clotting factors by Vitamin K is required to the biologically active. Which of the following amino acid is carboxylated?
- Histidine
  - Histamine
  - Glutamate
  - Aspartat
17. Heme is which perpgysin ?
- Type I
  - Type II
  - Type III
  - Type IV
18. Which of the following porphyrin is soluble in water and excerated in urine ?
- Protoporphyrin
  - Delta-ALA
  - Copos pospgysin
  - Uroperpgysin
19. In molecular cloning, blue white screen is used for :
- To screen for recombinant vats
  - To detect gene mutation
  - To identify chesered chromosomal DNA insert in plasmid vect
  - To detect host DNA insite
20. Oncogenes can be best studied by :
- Transfection
  - Transduction
  - Transformation
  - Conjugation
21. If a drug is absorbed through skin, what is the order of maximum percutaneous absorption of drug from the given routes ?
- Scalp > Scrotum > Posterior auricular > Dorsum of hand > Plantar area
  - Plantar area > Dorsum of hand > Scalp > Scrotum > Posterior auricular
  - Scrotum > Scalp > Posterior auricular > Dorsum of hand > Plantar area
  - Posterior auricular > Scrotum > Scalp > Dorsum of hand > Plantar area

22. Nitroglycerine is effective when administered sublingually because :
- (A) Ionized and lipid soluble
  - (B) Non-ionized and lipid soluble
  - (C) Non-ionized and water insoluble
  - (D) Ionized and water insoluble
23. Which of the following antiplatelet drug is prodrug ?
- (A) Tirofibrin
  - (B) Aspirin
  - (C) Clopidogrel
  - (D) Dipyridamol
24. Which of the following is a sedative beta-2 antagonist ?
- (A) Butoxamine
  - (B) Esmolol
  - (C) Betaxolol
  - (D) Celiprolol
25. Propranolol is contraindicated in diabetes mellitus because it :
- (A) Causes seizures
  - (B) Causes hypotension
  - (C) Causes hyperglycemia
  - (D) Mask the hyperglycemic symptoms
26. Which of the following is a venodilator ?
- (A) Hydralazine
  - (B) Minoxidil
  - (C) Nitroprusside
  - (D) Nifedipine
27. A 3 years old child was undergoing squint surgery, initial heart rate was 140 beats/min. After anaesthesia and start of surgery heart rate dropped to 40 beats/min. What should be the next step ?
- (A) Decrease plane of anaesthesia
  - (B) Stop surgery
  - (C) Inj glycopyrrolate
  - (D) Inj atropine
28. Organophosphates act by inhibiting the enzymes acetyl-cholinesterase. Which type of enzyme inhibitors are they ?
- (A) Competitive and reversal
  - (B) Uncompetitive and reversal
  - (C) Non-competitive and irreversible
  - (D) Non-competitive and reversal

29. After taking some drug for acute attack of migraine, a patient developed nausea and vomiting. He also developed tingling and numbness in the tip of finger that are also turned blue. Which of the following is the most likely drug implicated in causing above findings ?
- (A) Dihydroergotamine  
(B) Aspirin  
(C) Sumatriptan  
(D) Butorphenol
30. Sodium nitropruside acts by activation of :
- (A) Guanylate cyclase  
(B) K<sup>+</sup> channels  
(C) Ca<sup>+</sup> channels  
(D) Cyclic AMP
31. Caspases are involved in :
- (A) Apoptosis  
(B) Pinocytosis  
(C) Cell signaling  
(D) Cell injury
32. Anitschkow cells are :
- (A) Modified macrophages  
(B) Modified neutrophils  
(C) Modified B-cells  
(D) Modified RBCs
33. Factor X-deficiency is associated with which of the following types of amyloidosis ?
- (A) AL  
(B) A $\beta$   
(C) ATTR  
(D) APrP
34. Small, warty vegetations along with the lines of closure of valve leaflets are seen in :
- (A) RHD  
(B) Infective endocarditis  
(C) Libman Sack's endocarditis  
(D) NBTE
35. All are examples of hypersensitivity mediated by antibodies, except :
- (A) Pemphigus vulgaris  
(B) Erythroblastosis fetalis  
(C) Pernicious anemia  
(D) Serum sickness

36. Which of the following is not the tumor suppressor gene ?
- (A) Wt-1
  - (B) p53
  - (C) RB
  - (D) RAS
37. An anti-inflammatory cytokine is :
- (A) IL-1
  - (B) TNF
  - (C) IL-4
  - (D) IFN- $\gamma$
38. Type of protein deposited in hemodialysis associated amyloidosis is :
- (A) Immunoglobulin light chain
  - (B) AANF
  - (C) AB2m
  - (D) Ab
39. Weber-Osler-Rendu syndrome is a disorder of :
- (A) Collagen
  - (B) Platelets
  - (C) Clotting factors
  - (D) Blood vessels
40. Russel bodies are accumulation of :
- (A) Cholesterol
  - (B) Immunoglobulin
  - (C) Lipoprotein
  - (D) Phospholipids
41. Darting motility is shown by :
- (A) Histeria
  - (B) Campylobacter
  - (C) Bonclia
  - (D) Mycoplasma
42. A patient is suffering from pneumonia. Laboratory study shows acid fat filamentous bacteria. The causative organism is :
- (A) M. Tuberculosis
  - (B) Actinomyces
  - (C) Nocardis
  - (D) Mycobacterium avium intercellulose



43. Membrane attack complex is :
- (A) C3b  
(B) C5-9  
(C) C1-3  
(D) C4-5
44. Sterilization is defined as :
- (A) Disinfection of skin  
(B) Complete destruction of all micro organisms  
(C) Destruction of pathogenic organism  
(D) Decrease bacterial count from objects
45. PLET medium is used for :
- (A) Plague  
(B) Anthrax  
(C) Typhoid  
(D) Cholera
46. Which of the following is a sexual spore ?
- (A) Chlamydospore  
(B) Sporangiospore  
(C) Ascospore  
(D) Phialoconidia
47. A farmer from the sub Himalayan region presents with multiple vesicles on hand and multiple eruptions along the lymphatics. The most likely causative against is :
- (A) *Trichophyton rubrum*  
(B) *Clasdosporium* species  
(C) *Sporotherix schenckii*  
(D) *Aspergillus*
48. Differential coliform count is done by :
- (A) Multiple tube method  
(B) VR medium  
(C) MacConkey's agar  
(D) Eijkman test
49. Which is false about Spaulding classification ?
- (A) Non-critical items also included in classification  
(B) Semi-critical items contacts with mucus membrane  
(C) Semi-critical items needs low disinfectant  
(D) Cardiac catheter e.g. of critical items

50. Which of the following statement is false regarding communicability with reference to malarial parasite ?
- (A) The gametocytes appear in blood 4-5 days after appearance of 1st asexual form in *P. vivax*.
- (B) The gametocytes appear in blood 10-12 days after appearance of first asexual form in *P. falciparum*.
- (C) The number of gametocytes increase in blood with time.
- (D) The number of gametocytes may exceed 100 per cumm of blood.
51. Perjury means giving wilful false evidence by a witness while under oath, the witness is liable to be prosecuted for perjury and the imprisonment may extend to 7 years. This falls under which Section of IPC ?
- (A) 190 of Indian Penal Code
- (B) 191 of Indian Penal Code
- (C) 192 of Indian Penal Code
- (D) 193 of Indian Penal Code
52. A case of suspected homicide comes to a doctor. He is supposed to inform the police under Section \_\_\_\_\_ of Cr PC(Criminal Penal Code).
- (A) 174
- (B) 39
- (C) 37
- (D) 176
53. "Juvenile Court" is presided over by:
- (A) First Class Female Magistrate
- (B) Second Class Female Magistrate
- (C) Second Class Male Magistrate
- (D) District Magistrate
54. Declaration of Geneva is related with :
- (A) Medical etiquette
- (B) Disciplinary control
- (C) Hippocratic oath
- (D) Professional misconduct

55. Leaving or forgetting an instrument or sponge in the abdomen of the patient during a surgery and closing the operation is :
- (A) Contributory negligence  
(B) Civil negligence  
(C) Corporate negligence  
(D) Criminal negligence
56. Doctor who did surgery on wrong side of the patient is punishable under which Section ?
- (A) Section 304A IPC  
(B) Section 306 IPC  
(C) Section 307 IPC  
(D) Section 305 IPC
57. Preauricular sulcus helps in detection of :
- (A) Age  
(B) Sex  
(C) Race  
(D) Height
58. Gustafson's method used for age estimation of tooth includes all, except :
- (A) Primary dentition  
(B) Root resorption  
(C) Root transparency  
(D) Attrition
59. Most reliable method of identification of a person is :
- (A) Gustafson's method  
(B) Galton Method  
(C) Anthropometry  
(D) Scars
60. Suspended animation may be seen with which of the following ?
- (A) Electrocution  
(B) Salicylate poisoning  
(C) Snake Bite  
(D) Burns
61. The ideal place to record body temperature in dead body is :
- (A) Rectum  
(B) Axilla  
(C) Mouth  
(D) Groin

62. Cadaveric spasm involves :
- (A) Voluntary muscles
  - (B) Involuntary muscles
  - (C) Both (A) and (B)
  - (D) Smooth muscles
63. Lacinated wounds look like incised wounds over :
- (A) Scalp
  - (B) Abdomen
  - (C) Thigh
  - (D) Forearm
64. Motorcyclist fracture among the following is :
- (A) Ring fracture
  - (B) Sutural separation
  - (C) Comminuted fracture of skull
  - (D) Depressed fracture of skull
65. In a patient of unilateral loss of vision, the patient had injury to opposite eye leading to corneal opacification. The patient was operated by corneal grafting, he could see clearly again with one eye. The injury is said to be :
- (A) Simple
  - (B) Grievous injury
  - (C) Dangerous
  - (D) None of these
66. Natural history of disease is studied with :
- (A) Longitudinal studies
  - (B) Cross-sectional studies
  - (C) Trials
  - (D) None of these
67. Spot maps are used for a disease in Epidemiology for depiction of :
- (A) Local distribution
  - (B) Rural-urban variations
  - (C) National variations
  - (D) International variations
68. The following is true about prevalence and incidence :
- (A) Both are rates
  - (B) Prevalence is a rate but incidence is not
  - (C) Incidence is a rate but prevalence is not
  - (D) Both are not rates

69. Case fatality rate is :
- (A) Spreading power of a disease
  - (B) Killing power of a disease in a time
  - (C) Killing power of a disease with no time interval
  - (D) Resistance of disease
70. Migration study is used to study :
- (A) Sociodemographic reasons for migration of a population
  - (B) Prevalence of disease in a population
  - (C) Environmental and genetic factors in a disease in a population
  - (D) Diseases with long incubation period
71. Berksonian bias is a type of :
- (A) Information bias
  - (B) Selection bias
  - (C) Interviewer bias
  - (D) Recall bias
72. Confounding can be removed by :
- (A) Assign confounders equally to both the cases and controls
  - (B) Stratification
  - (C) Matching
  - (D) All of these
73. Window period is defined as the time taken from :
- (A) Entry in cell to expulsion of first viral particle
  - (B) Entry of pathogen to appearance of first clinical symptom
  - (C) Exposure to laboratory detection of disease
  - (D) Entry of organism to maximum communicability
74. Which is indirect mode of transmission ?
- (A) Hand contact
  - (B) Through placenta
  - (C) Vector-borne
  - (D) Dog-bite

75. The area is declared free of epidemic :

(A) Till last secondary case recovers

(B) No new case reported for incubation period of disease since last case

(C) No new case reported for twice the incubation period of disease since last case

(D) No new case reported for six months since the last case

(C) Influenza vaccine

(D) Swine flu vaccine

78. Ring vaccination is :

(A) Given by a ring shaped machine

(B) Given to produce a ring shaped lesion

(C) Given around 200 yards of a case detected

(D) Given around a mile of a case detected

76. Vaccine associated paralytic poliomyelitis develops after \_\_\_\_\_ days of OPV administration.

(A) 7-14

(B) 20-60

(C) 60-90

(D) Immediately

77. Dokoral, Sanchol, mORC VAX are used for the production of :

(A) Typhoid vaccine

(B) Cholera vaccine

79. KAP studies were first used in India to study :

(A) HIV

(B) Malaria

(C) Family planning

(D) Carcinoma cervix

80. WHO criteria for epidemic of meningococcal disease is :

(A) 0.1%

(B) 0.01%

(C) 0.001%

(D) 1%

81. Most common skin related complaints in patients with HIV :
- (A) Idiopathic pruritus
  - (B) Fungal infection
  - (C) Seborrheic dermatitis
  - (D) Folliculitis
82. Binkley spots are also known as :
- (A) Diabetic dermopathy
  - (B) Cutaneous sarcoidosis
  - (C) Lupus vulgaris
  - (D) Rain drop pigmentation
83. Tripe palms alone is most commonly associated with which internal malignancy ?
- (A) Breast Cancer
  - (B) Lung Cancer
  - (C) Gastric Carcinoma
  - (D) Colon Cancer
84. Leukemiacutis is most commonly associated with :
- (A) Acute Lymphocytic Leukemia
  - (B) Chronic Lymphocytic Leukemia
  - (C) Acute Myeloid Leukemia
  - (D) Chronic Myeloid Leukemia
85. Common to all rashes in secondary syphilis is / are :
- (A) Do not itch
  - (B) Are coppery red in colour
  - (C) Are symmetrical
  - (D) All of these
86. BTA patient with normal USG but tenderness in left lumbar region. Best investigation is :
- (A) MCU
  - (B) IVP
  - (C) CECT whole abdomen
  - (D) Repeat USG
87. Investigation using dye to find out stone in salivary gland is :
- (A) Sialography
  - (B) Mammography
  - (C) MRA
  - (D) USG
88. After mammography if there is suspected lesion BIRADS staging system advices :
- (A) FNAC
  - (B) Lumpectomy
  - (C) MRI
  - (D) Mammogram

89. 25 yrs old female presenting with lump in breast to OPD. First investigation is :
- (A) USG
  - (B) Mammogram
  - (C) MRI
  - (D) PET
90. Intraoperative sentinel lymph node detection in axillae is done by using :
- (A) Mammography
  - (B) Isosulphan Blue
  - (C) MRI
  - (D) CT Scan
91. Weber Ferguson Incision is used in :
- (A) Breast Cancer
  - (B) Carcinoma hard palate
  - (C) Thyroid cancer
  - (D) Carcinoma penis
92. Management of lip carcinoma < 2 cm is :
- (A) Surgery
  - (B) RT
  - (C) RT + CT
  - (D) CT
93. In head and neck cancer N2a is :
- (A) Single node  $\leq 3$  cm
  - (B) Single node  $> 3$  cm &  $< 6$  cm
  - (C) Multiple ipsilateral nodes
  - (D) All nodes  $< 6$  cm
94. For Leukoplakia treatment is :
- (A) Local excision
  - (B) Excision and radiotherapy
  - (C) Topical chemotherapy
  - (D) Repositioning of ill fitting dentures
95. Conley's pointer is used to identify :
- (A) Lingual nerve
  - (B) Hypoglossal nerve
  - (C) Facial nerve
  - (D) All of these
96. P-ANCA is the characteristic for :
- (A) PAN
  - (B) Microscopic Polyangiitis
  - (C) Wegners Granulomatosis
  - (D) HS Purpura



97. Shrinking lung syndrome is seen in :  
(A) SLE  
(B) Rheumatoid Arthritis  
(C) Sarcoidosis  
(D) Scleroderma
98. Metabolic complication in CRF is all, except :  
(A) Hyperkalemia  
(B) Hypophosphatemia  
(C) Hypocalcemia  
(D) Hypokalemia
99. Good Pasture Syndrome is characterised by :  
(A) Anti GBM antibody  
(B) P-ANCA  
(C) C-ANCA  
(D) Anti Nuclear Antibody
100. Typical feature of minimal change disease include :  
(A) Normal Light Microscopy  
(B) FSGS  
(C) Tubular Sclerosis  
(D) Glomerular Sclerosis
101. The earliest feature of Diabetic nephropathy is :  
(A) Microalbuminuria  
(B) Increased serum creatinine  
(C) Nephritic syndrome  
(D) Hematuria
102. The most common Histological Variant of RCC is :  
(A) Clear cell type  
(B) Chromophobe type  
(C) Papillary  
(D) Tubular
103. Broca Aphasia is :  
(A) Fluent Aphasia  
(B) Non-Fluent Aphasia  
(C) Sensory aphasia  
(D) Conduction Aphasia
104. Bulbar paralysis refers to :  
(A) Motor Neuron Disease  
(B) UMN lesion  
(C) IX to XII cranial nerve paralysis  
(D) III to XII cranial nerve paralysis

105. Most common Nerve involved in Intracranial Aneurysm is :
- (A) Troclear
  - (B) VII
  - (C) VIII
  - (D) Occulomotor
106. Pseudotumor cerebri is caused by :
- (A) Acetazolamide
  - (B) Vitamin A overdose
  - (C) Methotextrate overdose
  - (D) Excessive iron therapy
107. Commonest presentation of Neurocysticercosis :
- (A) Seizures
  - (B) Focal neurological deficit
  - (C) Dementia
  - (D) Radiculopathy
108. A lesion in Paracentral lobule causes :
- (A) Contralateral Foot Weakness
  - (B) Memory Impairment
  - (C) Brocas Aphasia
  - (D) Cognitive loss
109. The drug of choice for Absence seizure :
- (A) Valproate
  - (B) Gabapentin
  - (C) Carbamazapine
  - (D) Phenytoin
110. Prions include :
- (A) DNA and RNA
  - (B) DNA
  - (C) RNA
  - (D) Proteins
111. A hypertensive with Proteinuria, Drug of choice for HTN is :
- (A) Propranolol
  - (B) Clonidine
  - (C) Enalapril
  - (D) Alpha methyl dopa
112. Most common cause of death in adult with PDA is :
- (A) CCF
  - (B) Infective endocarditis
  - (C) Rupture
  - (D) Embolism

113. Bacterial endocarditis is rarely seen in :
- (A) VSD  
(B) ASD  
(C) MVP  
(D) Septum Secundum
114. In CPR chest compression should be at :
- (A) Upper half of sternum  
(B) Lower half of sternum  
(C) Middle of sternum  
(D) At sternal angle
115. Microcytic hypochromic Anaemia is the feature of which of the following :
- (A) Vitamin B12 deficiency  
(B) Lead toxicity  
(C) Thalassemia  
(D) Aplastic anaemia
116. Plummer's vinson syndrome includes all, except :
- (A) Iron deficiency anaemia  
(B) Dysphagia  
(C) Atrophic glossitis  
(D) Macroglossia
117. The following protein defects can cause HS, except :
- (A) Ankyrin  
(B) Palladin  
(C) Glycophrin C  
(D) Anion Transport Protein
118. Heterozygous Sickle Cell Anaemia gives protection against :
- (A) G6PD  
(B) Malaria  
(C) Thalassemia  
(D) Dengue fever
119. Autoimmune haemolytic anaemia is seen in :
- (A) ALL  
(B) CML  
(C) CLL  
(D) None of these
120. Gold Standard test for  $\beta$  thalassemia is :
- (A) HbF  
(B) HbA  
(C) HbA2  
(D) HbH

121. Paediatrics is a \_\_\_\_\_ word.
- (A) Greek  
(B) Latin  
(C) Spanish  
(D) German
122. Universal Immunization Programme was launched in \_\_\_\_\_ and includes \_\_\_\_\_ disease.
- (A) 1985 ; 5  
(B) 1986 ; 6  
(C) 1985 ; 6  
(D) 1986 ; 5
123. RBSK was launched in \_\_\_\_\_ for \_\_\_\_\_ disorders of children age group \_\_\_\_\_.
- (A) 2013 ; 30 ; 0-6 yrs  
(B) 2013 ; 32 ; 0-6 yrs  
(C) 2012 ; 30 ; 0-5 yrs  
(D) 2012 ; 32 ; 0-5 yrs
124. Mission Indradhanush launched in \_\_\_\_\_ to attain \_\_\_\_\_ coverage of \_\_\_\_\_ vaccines.
- (A) 2014 ; 90% ; 7  
(B) 2015 ; 75% ; 7
- (C) 2013 ; 90% ; 7  
(D) 2014 ; 75% ; 7
125. Human fetus secretes thyroxine from \_\_\_\_\_ of gestation.
- (A) 10<sup>th</sup> week  
(B) 12<sup>th</sup> week  
(C) 14<sup>th</sup> week  
(D) 16<sup>th</sup> week
126. Toddler age group is \_\_\_\_\_.
- (A) 12-24 months  
(B) 12-36 months  
(C) 37-72 months  
(D) 24-72 months
127. Time of eruption of upper first molar is :
- (A) 6-7  
(B) 7-8  
(C) 8-9  
(D) 11-12
128. Head and chest circumference are almost equal at the age of :
- (A) 8 months  
(B) 10 months  
(C) 12 months  
(D) 14 months

129. Incidence of Turner syndrome is :

- (A) 1/1000 live birth
- (B) 1/10000 live birth
- (C) 1/2000 live birth
- (D) 1/20000 live birth

130. Which of the following leads to macrocephaly ?

- (A) Seckel
- (B) Cockayne
- (C) Agelman
- (D) Sotos

131. Embryological origin of thyroid is from :

- (A) Floor of pharynx
- (B) Tracheal diverticulum
- (C) 6th branchial arch
- (D) None of these

132. Lateral aberrant thyroid is the name given for :

- (A) MTC with neck nodes
- (B) FTC with neck nodes

(C) PTC with neck nodes

(D) None of these

133. Pyramidal lobe is seen in about \_\_\_\_\_% of population.

- (A) 10
- (B) 20
- (C) 30
- (D) 40

134. Ligament of berry is the condensation of :

- (A) Pretracheal fascia
- (B) Prevertebral fascia
- (C) Investing layer
- (D) None of these

135. Which of the following is true regarding RLN anatomy ?

- (A) On right side, RLN hinges through subclavian artery
- (B) On left side, RLN hinges through Arch of Aorta
- (C) Both (A) and (B)
- (D) None of these

136. What is correct rate of maintenance fluid requirement is surgical patients for initial 10 kg of weight ?
- (A) 1 ml/kg/hr  
(B) 2 ml/kg/hr  
(C) 3 ml/kg/hr  
(D) 4 ml/kg/hr
137. In mild hyponatremia, what is serum sodium level is ?
- (A) 128-132 mEq/liter  
(B) 130-138 mEq/liter  
(C) 120-130 mEq/liter  
(D) 116-120 mEq/liter
138. Normal plasma concentration of magnesium ion is :
- (A) 1.0-1.5 mEq/liter  
(B) 1.5-2.0 mEq/liter  
(C) 2.0-2.5 mEq/liter  
(D) 2.5-3.0 mEq/liter
139. What is calories obtained by 1 gram of protein ?
- (A) 3.4 kcal  
(B) 4.0 kcal  
(C) 7.0 kcal  
(D) 7.8 kcal
140. A man having body mass index 41 is categorised as :
- (A) Overweight  
(B) Obesity grade 1  
(C) Obesity grade 2  
(D) Obesity grade 3
141. Location of level III nodes :
- (A) Lateral to Pec. Minor  
(B) Posterior to Pec. Minor  
(C) Medial to Pec. Minor  
(D) Near to cost clavicular ligament
142. Tethering is a case of CA breast is produced due to :
- (A) Ligament of Coopers infiltration  
(B) Lactiferous duct involvement  
(C) Sub-areolar lymphatic involvement  
(D) Axillary vein involvement

143. Milk forming glands of breast are called :
- (A) Terminal duct lobular unit  
(B) Alveoli  
(C) Lactiferous duct  
(D) Terminal ductules
144. The primary imaging modality for screening asymptomatic women is :
- (A) Mammography  
(B) Automated breast ultrasound  
(C) High resolution ultrasound  
(D) MRI with contrast
145. Relative risk of breast cancer is highest for :
- (A) Nonproliferative disease  
(B) Proliferative disease without atypia  
(C) Proliferative disease with atypia  
(D) LCIS
146. Most common mutated tumor suppressor gene in cancer is :
- (A) APC  
(B) P53  
(C) PTEN  
(D) Rb
147. Workers employed in dye industry are exposed to chemical carcinogen benzidine which predisposes them to higher risk of :
- (A) Leukemia  
(B) Lung cancer  
(C) Urinary bladder cancer  
(D) Skin cancer
148. Which of the following genetic cancer syndrome is not autosomal dominant ?
- (A) Xeroderma pigmentosa  
(B) Lynch syndrome  
(C) BRCA associated cancer  
(D) FAP
149. T cell adoptive therapy to isolate, expand and re-administer tumor reactive T cells is used as a treatment modality in :
- (A) Renal cell carcinoma  
(B) Malignant Melanoma  
(C) Lung cancer  
(D) Leukemia

150. Major side effect to Trastuzumab therapy is :
- (A) Myopathy
  - (B) Cardiomyopathy
  - (C) Peripheral neuropathy
  - (D) Alopecia
151. Which of the following is true regarding Bennett's fracture dislocation ?
- (A) Oblique fracture of the styloid process of the radius bone
  - (B) Depressed fracture of the lateral condyle of tibia
  - (C) Fracture through the neck of the 5<sup>th</sup> metacarpal with subluxation of trapeziometacarpel joint
  - (D) Fracture through the base of the 1<sup>st</sup> metacarpal with subluxation of trapeziometacarpel joint
152. False regarding 2<sup>nd</sup> degree sprain :
- (A) 1/3 to almost all fibres of ligament are disrupted
  - (B) Patient presents with pain, swelling and inability to use limb
  - (C) Joints movement are restricted
  - (D) Diagnosis made on performing stress test
153. Marker of bone resorption :
- (A) Serum crosslinked 'N' telopeptide and 'C' telopeptide
  - (B) Serum peptide of type 1 collagen
  - (C) Serum total free deoxypyridinoline
  - (D) Serum osteocalcin
154. Minerva cast used for :
- (A) Cervical spine disease
  - (B) Fracture of patella
  - (C) c-fracture of talus
  - (D) Fracture of tibia
155. Taylor's brace used for :
- (A) Scoliosis
  - (B) Radial nerve palsy
  - (C) Dorso lumbar spine immobilization
  - (D) Brachial plexus injury



156. Traction used for correction of hip deformity called :
- (A) Dunlop traction  
(B) Agnes-Hunt traction  
(C) Well leg traction  
(D) Perkin's traction
157. Skyline view is used to see :
- (A) Tibia fracture  
(B) Patella fracture  
(C) Calcaneum fracture  
(D) Acetabular fracture
158. Epiphyseal dysgenesis seen in :
- (A) Hemophilia  
(B) Hypothyroidism  
(C) Hyperthyroidism  
(D) Diabetes mellitus
159. Pen test is used to see :
- (A) Radial nerve function  
(B) Ulnar nerve function  
(C) Abductor pollicis brevis function  
(D) Flexor pollicis brevis function
160. French osteotomy is done for :
- (A) Correction of cubitus varus deformity  
(B) Fracture neck of femur  
(C) Osteoarthritis of hip  
(D) Ankylosing spondylitis
161. What is the maximum safe limit of noise exposure as recommended by Ministry of Labour, Govt. of India ?
- (A) 90 dB, 8 hours a day per week  
(B) 90 bB, 8 hours a day for 5 days per week  
(C) 100 dB, 6 hours a day per week  
(D) 100 dB, 6 hours a day for 5 days per week
162. The pinna is supplied by the nerves :
- (A) I, III, V, C2  
(B) II, V, VI, C2  
(C) V, VII, X, C2, C3  
(D) VI, VII, IX, C2, C3
163. Earliest symptom of acoustic nerve tumor is :
- (A) Tinnitus  
(B) Hearing loss  
(C) Otorrhoea  
(D) Vertigo

164. Sinus not present at birth :
- (i) Maxillary sinus
  - (ii) Frontal sinus
  - (iii) Ethmoid sinus
  - (iv) Sphenoid sinus
- (A) ii  
(B) ii, iv  
(C) All of these  
(D) None of these
165. Nasal perforation in bony part is caused by :
- (A) Syphilis
  - (B) Atrophic Rhinitis
  - (C) SLE
  - (D) Tuberculosis
166. Which of the rectus muscle inserts closest to the limbus ?
- (A) Lateral rectus
  - (B) Medial rectus
  - (C) Superior rectus
  - (D) Inferior rectus
167. Which of the following is most likely to be positive in a patient with non-granulomatous uveitis ?
- (A) HLA – B27
  - (B) HLA – B51
  - (C) HLA – B5
  - (D) HLA – B54
168. Which of the following is clinical entity is correctly matched in terms of direction of lens displacement ?
- (A) Marfan's syndrome-infero-temporal
  - (B) Homocysteinuria-supero-temporal
  - (C) Both (A) and (B)
  - (D) None of these
169. Which of the following signs is most likely to be present in a patient with Graves ophthalmopathy ?
- (A) Exophthalmos
  - (B) External ophthalmoplegia
  - (C) Eyelid retraction
  - (D) Optic neuropathy
170. In adults most common intraocular malignant tumor and most common site of involvement are :
- (A) Melanoma, choroid
  - (B) Melanoma, iris
  - (C) Metastasis, choroid
  - (D) Metastasis, iris

171. Which of the following is seen in the ovulatory phase ?
- (A) Stimulation of continuation of reduction division of oocytes
  - (B) Inhibin A is increased
  - (C) FSH increases steroid synthesis in granulosa cells
  - (D) Activin causes FSH to act on granulosa cells
172. Clomiphene citrate is indicated in :
- (A) Stein-Leventhal syndrome
  - (B) Ovarian cyst
  - (C) Asherman's syndrome
  - (D) Carcinoma endometrium
173. GnRH analogue may be given in all of the following, except :
- (A) Prostate Ca
  - (B) Endometrial Ca
  - (C) Fibromyoma uterus
  - (D) Precocious puberty
174. All of the following are the advantages of using Raloxifene over estrogen in post menopausal women, except :
- (A) Reduces fracture rates
  - (B) Avoids endometrial hyperplasia
  - (C) Reduces the incidence of venous thrombosis
  - (D) No increase in incidence of breast carcinoma
175. Basantidevi, 45 years old women presents with hot flushes after stopping of menstruation. 'Hot Flush' can be relieved by the administration of the following agents :
- (A) Ethinyl estradiol
  - (B) Testosterone
  - (C) Fluoxymesteron
  - (D) Danazol
176. Which of the following is the most likely diagnosis in a 27-years-old obese woman presenting with oligomenorrhea, infertility and hirsutism ?
- (A) Polycystic ovaries
  - (B) Endometriosis
  - (C) Pelvic inflammatory disease
  - (D) Turner's syndrome

177. True about Stein-Leventhal syndrome is / are, except :
- (A) Oligomenorrhea and amenorrhea
  - (B) Seen in postmenopausal women
  - (C) Innumerate cysts in ovary
  - (D) Theca cell hypertrophy
178. Rokitansky-Kuster-Hauser syndrome is associated with :
- (A) Ovarian agenesis
  - (B) Absent fallopian tube
  - (C) Vaginal atresia
  - (D) Bicornuate uterus
179. Female pseudohermaphroditism true is :
- (A) Absent ovary
  - (B) Absent uterus
  - (C) Presence of testis
  - (D) Clitoromegaly
180. Best prenatal treatment for congenital adrenal hyperplasia is :
- (A) Dexamethasone
  - (B) Betamethasone
  - (C) Prednisolone
  - (D) Hydrocortisone
181. A woman presents with a thick curdy-white vaginal discharge. The best treatment for her is :
- (A) Miconazole
  - (B) Metronidazole
  - (C) Nystatin
  - (D) Doxycycline
182. Most common route of transmission of endometrial tuberculosis is :
- (A) Direct local spread
  - (B) Lymphatic spread
  - (C) Retrograde spread
  - (D) Hematogenous
183. The right time in menstrual cycle to do endometrial biopsy in a patient with infertility is :
- (A) 12-14 days
  - (B) 17-19 days
  - (C) 20-22 days
  - (D) 3-5 days

184. Fern test is due to :
- (A) Presence of NaCl under progesterone effect
  - (B) Presence of NaCl under estrogenic effect
  - (C) LH/FSH
  - (D) Mucus secretion by Glands
185. Newer progestational contraceptives primarily act by :
- (A) Oviductal motility
  - (B) Uterine endometrium
  - (C) Cervix
  - (D) Inhibiting ovulation
186. OCP's are contraindicated in all, except :
- (A) Smoking 35 years
  - (B) Coronary occlusion
  - (C) Polycystic ovarian disease
  - (D) Cerebrovascular disease
187. Most important parameter in modified Bishops score is :
- (A) Cervical dilation
  - (B) Cervical position
  - (C) Cervical length
  - (D) Cervical consistency
188. Minimal intrauterine pressure required for cervical dilatation is :
- (A) 10 mm of Hg
  - (B) 15 mm of Hg
  - (C) 20 mm of Hg
  - (D) 30 mm of Hg
189. Most common sign of impending uterine rupture is :
- (A) Hematuria
  - (B) Passage of meconium
  - (C) Fetal distress and bradycardia
  - (D) Maternal bradycardia
190. Management of Chorioamnionitis includes all, except :
- (A) Intravenous Antibiotics
  - (B) Removal of cerclage
  - (C) Early delivery regardless of gestational age
  - (D) Corticosteroids

191. In oral cavity examination, the upper part of faucial pillars and most of the uvula are visible, it comes under which grade Mallampati classification?
- (A) Class I  
(B) Class II  
(C) Class III  
(D) Class IV
192. Which of the following Neuromuscular blocking agents depend heavily on biliary excretion?
- (A) Atracurium  
(B) Cisatracurium  
(C) Vecuronium  
(D) Mivacurium
193. Which of the following is an absolute contraindication of neuroaxial blockade?
- (A) Sepsis  
(B) Pre-existing neurological deficits  
(C) Increased intracranial pressure  
(D) Stenotic valvular heart lesions
194. What is hyperalgesia?
- (A) Increased response to mild stimulation  
(B) Increased response to noxious stimulus  
(C) Abnormal sensation perceived without apparent stimulus  
(D) Persistence of sensation after stimulus
195. Which of the following is not a component of ERAS protocol?
- (A) Regional anesthesia  
(B) DVT prophylaxis  
(C) Routine bowel preparation  
(D) NO/Short acting pre-medications and fast acting anesthetics
196. Which of the following is a sleep disorder of organic origin?
- (A) Sleep walking  
(B) Sleep apnoea  
(C) Sleep terrors  
(D) Nightmare

197. What is the most common subtype of acute schizophrenia ?

- (A) Simple schizophrenia
- (B) Paranoid schizophrenia
- (C) Hebephrenic schizophrenia
- (D) Catatonic schizophrenia

198. Lithium carbonate therapy is useful :

- (A) In the treatment of an acute manic episode
- (B) To prevent the recurrence of depression
- (C) To prevent the recurrence of mania
- (D) In the treatment of acute depression

199. True about Korsakov syndrome :

- (i) Commonest cause of amnesic disorder
- (ii) Often follows Wernicke encephalopathy

(iii) Nystagmus and ophthalmoplegia

(iv) Associated with alcohol abuse and thiamine deficiency

- (A) i, ii, iii, iv
- (B) i, ii, iv
- (C) ii, iv
- (D) i, iv

200. Characteristic symptoms of morphine withdrawal include :

- (i) Hypotension
- (ii) Muscle spasm
- (iii) Dry conjunctiva
- (iv) Diarrhea

- (A) i, iii, iv
- (B) ii, iii, iv
- (C) ii, iv
- (D) ii, iii

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SPACE FOR ROUGH WORK





SPACE FOR ROUGH WORK

SEAL



NJ - 1A/23 (475)  
(Turn over)

(32)  
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Medical Officer  
(Assistant Surgeon)