

WST-DCI-2019-MDS-OS-PAPER-1-SET-1-A

Total Questions: 100

Max. Marks: 100

Time: Two Hours

Roll No. (in figures) .....

(in words).....

.....  
(Signature of Candidate)

I have checked the entries made above and in the OMR Sheet by the candidate.

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(Signature of invigilator)

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**CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.**

1. All the candidates must return the test booklet as well as answer-sheet to the Invigilator concerned before leaving the Examination Hall. If any candidate leaves the examination hall without handing over the test booklet/ answer sheet to the Invigilator, a case of use of unfair means/ misbehavior will be registered against him/ her in addition to lodging an FIR with the Police. The answer-sheet of such a candidate will not be evaluated.
2. The candidates must not do any rough work or writing work in the answer-sheet (OMR Sheet). All rough work is to be done in the test booklet.
3. Candidates will be required to darken the circle by using **blue/ black ball point pen** only.
4. Books, papers, slide rule, log table, cellular phone, pager, calculator or any other electronic gadget etc. are not allowed in the Examination Hall.
5. BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED THE CORRECT AND COMPLETE TEST BOOKLET CONTAINING SR. NO.1 TO 100 QUESTIONS, COMPLAINTS REGARDING MISPRINT ETC. WILL NOT BE ENTERTAINED 15 MINUTES AFTER THE EXAMINATION IS STARTED.

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1. Palatine tonsil is related laterally to all of the following structures, EXCEPT :  
(A) Superior constrictor (B) Stylopharyngeus  
(C) Pharyngobasilar fascia (D) Pre-vertebral fascia
2. Which of the following does not contribute to the development of tongue?  
(A) Tuberculum impar  
(B) Lingual swellings  
(C) Caudal part of hypobranchial eminence  
(D) Occipital myotomes
3. Regarding the sensory innervation of face, which of the following nerve supplies the skin over the tip of the nose?  
(A) Branch of the Maxillary Nerve  
(B) Branch of the Nasociliary Nerve  
(C) Branch of the Mandibular Division of the 5<sup>th</sup> Nerve.  
(D) Branch of the Ophthalmic Division of the 5<sup>th</sup> Nerve.
4. All of the following nerves are present in the posterior triangle, EXCEPT :  
(A) Roots and trunks of the brachial plexus  
(B) Supraclavicular nerves  
(C) Spinal part of the accessory nerve  
(D) Ansa cervicalis
5. All of the following are condensations of the deep cervical fascia of the neck, EXCEPT:  
(A) Pharyngobasilar Fascia (B) Stylomandibular Ligament  
(C) Sphenomandibular ligament (D) Buccopharyngeal Fascia
6. In the submandibular region, the facial artery gives off all of the following arteries, EXCEPT :  
(A) Submental (B) Tonsillar  
(C) Ascending palatine (D) Inferior labial
7. All of the following statements about the thyroid gland are true, EXCEPT:  
(A) The isthmus of the thyroid gland lies anterior to the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> rings of the trachea.  
(B) The superior thyroid artery is closely associated with the external laryngeal nerve.  
(C) The inferior thyroid vein drains into the internal jugular vein  
(D) Lymph from the upper part of the gland is drained through the pre-laryngeal nodes.
8. Which of the following is NOT a bone of the neurocranium?  
(A) Palatine bones (B) Parietal bones  
(C) Sphenoid bones (D) Temporal bones
9. Which of the following is NOT a bone of the facial skeleton?  
(A) Maxilla (B) Zygomatic bone  
(C) Frontal bone (D) Inferior nasal concha

10. Which of the following muscles does NOT take its origin from the common tendinous ring?  
(A) Superior rectus (B) Inferior rectus  
(C) Lateral rectus (D) Superior oblique
11. A form of coordinated programmed cell death is called :  
(A) Apoptosis (B) Necrosis  
(C) Lysis (D) Cloning
12. The largest WBC is:  
(A) Monocyte (B) Neutrophil  
(C) Eosinophil (D) Basophil
13. In adults, active red bone marrow is present in all, EXCEPT :  
(A) Skull (B) Vertebrae  
(C) Long bones (D) Sternum
14. Fibrinogen is converted into fibrin by :  
(A) Thrombin (B) Prothrombin  
(C) Prothrombin activator (D) Calcium
15. Structural and functional unit of muscle is:  
(A) Sarcotubular system (B) Sarcoplasmic reticulum  
(C) Sarcolemma (D) Sarcomere
16. The normal tidal volume is :  
(A) 150 ml (B) 300 ml  
(C) 500 ml (D) 1000 ml
17. The process of concentrating the urine is the main function of :  
(A) Cortical nephron (B) Descending loop of Henle  
(C) Juxtamedullary nephron (D) Collecting duct
18. Juxtaglomerular apparatus secretes :  
(A) Rennin (B) Renin  
(C) Erythropoietin (D) Aldosterone
19. Color vision is tested by :  
(A) Ishihara's chart (B) Snellen's chart  
(C) Jaeger's chart (D) Landold's chart
20. Myxoedema occurs due to :  
(A) Hyperthyroidism in adults (B) Hyperthyroidism in children  
(C) Hypothyroidism in adults (D) Hypothyroidism in children
21. Which of the following is a marker enzyme for mitochondria  
(A) ATP synthase (B) Cathepsin  
(C) Lactate dehydrogenase (D) Glucose – 6- phosphatase

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22. Biotin is involved in which of the following type of reactions?  
(A) Hydroxylations (B) Carboxylation  
(C) Decarboxylations (D) Dehydrations
23. The sodium pump :  
(A) Exchanges extracellular Na<sup>+</sup> for intracellular K<sup>+</sup>  
(B) Is important for maintaining a constant cell volume  
(C) Exchanges intracellular Na<sup>+</sup> for extracellular K<sup>+</sup>  
(D) Exchanges extracellular Na<sup>+</sup> for intracellular Ca<sup>2+</sup>
24. Gluconeogenesis is inhibited by :  
(A) Glucagon (B) Growth hormone  
(C) Insulin (D) Glucocorticoids
25. Committed step in glycolysis is catalysed by :  
(A) Hexokinase  
(B) Phospho fructokinase-1  
(C) Pyruvate kinase  
(D) Glyceraldehyde-3-PO<sub>4</sub> dehydrogenase
26. All of the following can be derived from Acetyl-CoA, EXCEPT :  
(A) Pyruvate (B) Ketone bodies  
(C) Cholesterol (D) Fatty acids
27. Alkaptonuria is related to which of the following enzyme defect?  
(A) Homogentisic oxidase (B) Tyrosinase  
(C) Methyl transferase (D) Transaminase
28. Deficiency of folic acid leads to :  
(A) Night blindness (B) Rickets  
(C) Macrocytic anaemia (D) Microcytic anaemia
29. Which compound is excreted in urine in vitamin B<sub>12</sub> deficiency :  
(A) FIGLU (B) Homocystine  
(C) Xanthurenic acid (D) Methylmalonic acid
30. Iron is deficient in :  
(A) Cereals (B) Maize  
(C) Pulses (D) Milk
31. A higher level of which of the following mineral in water is associated with lower rate of dental decay among children?  
(A) Magnesium (B) Fluoride  
(C) Calcium (D) Chloride
32. Which of the following change is not seen in apoptosis:  
(A) Cell shrinkage (B) Inflammation  
(C) Chromatic condensation (D) Cell death

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33. All of the following are clinical features of shock, EXCEPT :  
(A) Tachycardia (B) Rapid and weak pulse  
(C) Warm skin (D) Cyanosis
34. All of the following are bone tumors, EXCEPT :  
(A) Fibrous dysplasia (B) Ewing's sarcoma  
(C) Osteogenic sarcoma (D) Giant cell tumor of bone
35. Warthin tumour is:  
(A) Adenolymphoma of parotid gland  
(B) Pleomorphic adenoma of parotid gland  
(C) Carcinoma of parotid gland  
(D) Myoepithelioma of parotid gland
36. Candidiasis is a complication of all, EXCEPT :  
(A) Prolonged antibiotic therapy (B) Steroid therapy  
(C) Immunosuppression (D) Aspiration pneumonia
37. Red cell in  $\beta$  thalassemia are typically:  
(A) Normocytic hypochromic (B) Microcytic hypochromic  
(C) Normocytic normochromic (D) Macrocytic normochromic
38. Which of the following is not a cause of macrocytosis?  
(A) Liver disease (B) Alcoholism  
(C) Prolonged bleeding (D) Folic acid deficiency
39. Type II diabetes is not characterized by:  
(A) Absolute insulin deficiency (B) Insulin resistance  
(C) High blood sugar (D) Relative insulin deficiency
40. Which of the following is not a risk factor for oral squamous cell carcinoma?  
(A) Betel chewing (B) Smoking  
(C) High fibre diet (D) Leukoplakia
41. Choose the item that correctly matches the microorganism with appropriate stain or preparation.  
(A) *Mycobacterium tuberculosis* with India ink  
(B) *Cryptococcus neoformans* in CSF with Ziehl Neelsen stain  
(C) Fungi with KOH  
(D) *Chlamydia* with Gram stain
42. Heating in a hot air oven at 160 degree C for one hour is used for sterilization of:  
(A) All glass syringes (B) Oils and jellies  
(C) Swab sticks (D) All of the above
43. Which of the following bacteria is involved in production of dental caries?  
(A) *Streptococcus mutans* (B) *Staphylococcus epidermidis*  
(C) *Neisseria meningitides* (D) *Salmonella typhi*

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44. Chinese letter arrangement is characteristic of:  
(A) *Mycobacterium tuberculosis* (B) *Corynebacterium diphtheriae*  
(C) *Bacillus anthracis* (D) *Clostridium tetani*
45. Which of the following properties may be plasmid mediated?  
(A) Resistance to antibiotics (B) Production of enterotoxin  
(C) Fermentation of lactose (D) All of the above
46. BCG vaccine is a:  
(A) Live attenuated vaccine (B) Killed preparation  
(C) Toxoid preparation (D) Recombinant preparation
47. The most common natural mode of transmission of infection with Hepatitis B virus is via:  
(A) Contaminated water supply  
(B) Body fluids, such as urine and semen  
(C) Respiratory droplets  
(D) Infected insect vectors
48. Which of the following is the commonest opportunistic infection in AIDS patient in India?  
(A) Tuberculosis (B) Toxoplasmosis  
(C) Cryptosporidiosis (D) Cryptococcosis
49. Which of the following species of *Candida* is most frequently associated with human infections?  
(A) *C. albicans* (B) *C. tropicalis*  
(C) *C. glabrata* (D) *C. rugosa*
50. Morphological forms of *Entamoeba histolytica* are:  
(A) Trophozoite (B) Precyst  
(C) Cyst (D) All of the above
51. A patient has lesions on the buccal mucosa. There is profuse salivation. Biopsy shows acantholysis and a suprabasilar vesicle. Which of the following is the most likely diagnosis?  
(A) Pemphigus (B) Bullous lichen planus  
(C) Psoriasis (D) Erythema multiforme
52. Which of the following is the most important prognostic feature of oral squamous cell carcinoma?  
(A) Size (B) Ulceration  
(C) Local invasion (D) Presence of metastasis
53. In which of the following conditions are 'Sulfur granules' of diagnostic value?  
(A) Histoplasmosis (B) Actinomycosis  
(C) Scrofula (D) Lead sulfide tissue deposits

54. Mucoceles most commonly arise as a result of:  
(A) Rupture of salivary duct  
(B) Partial or complete compression of the salivary acini  
(C) Inflammatory changes in the glandular interstitial tissue  
(D) Partial or complete obstruction of the salivary duct by calculus
55. Sialoliths are most commonly found during the radiographic examination of the:  
(A) Parotid duct (B) Submandibular duct  
(C) Sublingual duct (D) Minor salivary gland duct
56. The following are non-specific humoral factors, EXCEPT :  
(A) Beta-lysin (B) Complement  
(C) Antibodies (D) Interferons
57. An immunoglobulin that is synthesized locally and concentrated in various body secretions is:  
(A) IgA (B) IgG  
(C) IgM (D) IgD
58. Spirochetes can be demonstrated by:  
(A) Phase contrast microscope (B) Light microscope  
(C) Dark field microscope (D) All of these
59. Viruses have all of the following, EXCEPT :  
(A) Definite shape (B) Metabolism  
(C) Ultramicroscopic size (D) Genes
60. Which of the following component of complement has chemotactic activity:  
(A) C1 (B) C2  
(C) C8 (D) C3
61. Proton pump inhibitors are most effective when they are given  
(A) After meals (B) Shortly before meals  
(C) Along with H2 blockers (C) During meals
62. The most commonly used local anaesthetic agent is:  
(A) Benzocaine (B) Ropivacaine  
(C) Cocaine (D) Lignocaine
63. Tramadol is:  
(A) Antacid (B) Opioid analgesic  
(C) Antibiotic (D) Antifungals agent
64. Dental discoloration can be caused by :  
(A) Doxycycline (B) Amoxicillin  
(C) Clindamycin (C) Ciprofloxacin

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65. Nitrates are not used in :  
(A) Congestive cardiac failure (B) Esophageal spasm  
(C) Renal colic (D) Cyanide poisoning
66. Patients suffering from multidrug resistant tuberculosis can be treated with all the following drugs, EXCEPT :  
(A) Tobramycin (B) Amikacin  
(C) Ciprofloxacin (D) Clarithromycin
67. Drug of choice for acute attack of asthma is :  
(A) Ipratropium Bromide (B) Salbutamol  
(C) Atropine (D) Aminophylline
68. Which of the following Antimicrobials has antipseudomonal action?  
(A) Cefopodoxime proxetil (B) Ceforanide  
(C) Cefotetan (D) Cefoperazone
69. A diabetic patient developed tooth abscess due to Staphylococcus aureus, which was found to be Methicillin resistant on the antibiotic sensitivity testing. All the following antibiotics will be appropriate, Except:  
(A) Vancomycin (B) Teicoplanin  
(C) Imipenem (D) Linezolid
70. Which of the following over-the-counter analgesic has LEAST potential in reducing the anti-hypertensive effect of ACE inhibitors?  
(A) Paracetamol (B) Aspirin  
(C) Naproxen (D) Ibuprofen
71. Which of the following coagulation factor is not vitamin K dependent?  
(A) Factor V (B) Factor II  
(C) Factor VII (D) Factor X
72. Which out of the following spreads through feco-oral route?  
(A) Hepatitis C (B) Hepatitis B  
(C) Hepatitis E (D) Hepatitis D
73. All of the following drugs belong to anticoagulants, EXCEPT :  
(A) Dabigatran (B) Rivoroxaban  
(C) Warfarin (D) Aspirin
74. All of the following conditions are associated with Iron deficiency Anaemia except:  
(A) Koilonychia  
(B) PICA  
(C) Decreased serum ferritin  
(D) Decreased total iron binding capacity (TIBC)
75. AIDS is characterized by all, EXCEPT :  
(A) Decreased CD4 count (B) Decreased CD8 count  
(C) Opportunistic infections (D) Reversed CD4 : CD8 ratio



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76. Which one of the following antiepileptic drug is associated with gum hypertrophy:  
(A) Sodium valproate (B) Carbamazepine  
(C) Phenytoin (D) Clobazam
77. Beri-Beri is caused due to deficiency of which one of the following vitamin :  
(A) Vitamin B<sub>12</sub> (B) Vitamin C  
(C) Vitamin B<sub>1</sub> (D) Vitamin D
78. The drugs used in hyperthyroidism are all, EXCEPT :  
(A) Carbimazole (B) Methimazole  
(C) Propylthiouracil (D) Levothyroxine
79. A patient presented in casualty with a history of bee sting half hour back. He was having difficulty in respiration, hypotension. A diagnosis of anaphylactic shock was made. The drug of choice would be :  
(A) Adrenaline (B) Noradrenaline  
(C) Terlipressin (D) Dopamine
80. All the following statements are true regarding prolonged use of NSAIDS, EXCEPT :  
(A) Predisposition to gastric ulcer  
(B) Nephrotoxicity  
(C) Cardiac side effects are very common  
(D) Frequent CNS side effects including dizziness are common
81. Abbe-Estlander flap is used for:  
(A) Lip (B) Tongue  
(C) Eyelid (D) Ears
82. Which type of thyroid carcinoma has best prognosis:  
(A) Papillary carcinoma (B) Anaplastic carcinoma  
(C) Follicular carcinoma (D) Medullary carcinoma
83. Epulis arises from:  
(A) Enamel (B) Root of teeth  
(C) Gingiva (D) Pulp
84. Virus causing head and neck cancer  
(A) EBV (B) HSV  
(C) HCV (D) HBV
85. Which of the following statement is true regarding Warthin tumor?  
(A) commonest in females  
(B) most malignant  
(C) Hot spot on Tc-99m  
(D) Most common tumor of minor salivary gland

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86. Which of the following is true about branchial cyst?  
(A) Seen deep to lower 1/3<sup>rd</sup> of sternocleidomastoid  
(B) Present in anterior triangle of neck  
(C) Filled with straw colored fluid with cholesterol crystals  
(D) Present at birth
87. Who said “ skin is the best dressing”?  
(A) Joseph Lister (B) John Hunter  
(C) James Paget (D) Mc Neill Love
88. Ideal time for cleft lip repair surgery is:  
(A) 3-6 weeks (B) 6-12 weeks  
(C) 1-1.5 years (D) 3-4 years
89. Primary closure of incised wounds must be done within:  
(A) 2 hours (B) 4 hours  
(C) 6 hours (D) 12 hours
90. Best view for X-Ray mandible is :  
(A) Antero-posterior (B) Lateral  
(C) Oblique (D) Orthopantomogram
91. All the statements are true about Knoop hardness test, EXCEPT :  
(A) Pyramid shaped diamond indenter is used  
(B) The load applied varies from 0.1 Kgf to 1Kgf  
(C) Used to measure hardness values of brittle materials only  
(D) The KHN for human dentin is 70
92. Sensitization of stainless steel occurs when it is heated at higher temperatures due to:  
(A) Precipitation of iron carbide  
(B) Precipitation of chromium carbide  
(C) Precipitation of nickel carbide  
(D) Precipitation of cobalt carbide
93. Miracle mix is:  
(A) Light cure glass ionomer cement  
(B) A mixture of Glass ionomer cement and porcelain powder  
(C) A mixture of Glass ionomer cement and resin  
(D) A mixture of Glass ionomer cement and silver amalgam alloy particles
94. Dentin bonding agent (DBA) has both hydrophilic and hydrophobic ends. Hydrophilic end binds with:  
(A) Composite (B) Hydroxyapatite  
(C) Collagen of dentin (D) Calcium of tooth
95. The component which acts as a retarder in Alginate is:  
(A) Calcium sulphate (B) Sodium phosphate  
(C) Potassium alginate (D) Diatomaceous earth

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96. Benzoyl peroxide in self-cure resin acts as:  
(A) Initiator (B) Inhibitor  
(C) Activator (D) Plasticizer
97. The following statements are true for metal ceramic system, EXCEPT :  
(A) The alloy used as substructure should have higher melting temperature than the firing temperature of ceramic  
(B) The fusing temperature of ceramic should be higher than that of metal  
(C) The metal should have a higher sag resistance  
(D) The coefficient of thermal expansion of metal should be slightly higher than the veneering ceramic
98. The following chemicals can be used to accelerate the setting of gypsum products, EXCEPT :  
(A) Terra alba (B) Rochelle salt  
(C) Syngenite (D) Kieselguhr
99. Normal setting expansion for gypsum bonded investment is:  
(A) 1.2% (B) 0.6%  
(C) 5% (D) 2.8%
100. All of the following materials are used as bite registration materials, EXCEPT :  
(A) Dental plaster (B) Zinc oxide eugenol  
(C) Alginate (D) Addition silicone