

**WST-DCI-MDS-2019-PROSTHO-P-1-SET-1-A**

Printed Pages: 10

Sr. No.30001

**WST-DCI-2019-MDS-PROSTHO-P-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, the skin over the tip of the nose is supplied by the  
(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 of neck 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 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

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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 in a young individual 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. Gluconeogenesis is inhibited by :  
(A) Glucagon (B) Growth hormone  
(C) Insulin (D) Glucocorticoids

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22. All can be derived from Acetyl-CoA EXCEPT :  
(A) Pyruvate (B) Ketone bodies  
(C) Cholesterol (D) Fatty acids
23. Deficiency of folic acid leads to :  
(A) Night blindness (B) Rickets  
(C) Macrocytic anaemia (D) Microcytic anaemia
24. Which compound is excreted in urine in vitamin B<sub>12</sub> deficiency :  
(A) FIGLU (B) Homocystine  
(C) Xanthurenic acid (D) Methylmalonic acid
25. Iron is deficient in :  
(A) Cereals (B) Maize  
(C) Pulses (D) Milk
26. 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
27. Which of the following change is not seen in apoptosis:  
(A) Cell shrinkage (B) Inflammation  
(C) Chromatic condensation (D) Cell death
28. All of the following are clinical features of shock except:  
(A) Tachycardia (B) Rapid and weak pulse  
(C) Warm skin (D) Cyanosis
29. All of the following are bone tumors except:  
(A) Fibrous dysplasia (B) Ewing's sarcoma  
(C) Osteogenic sarcoma (D) Giant cell tumor of bone
30. Warthin tumour is:  
(A) Adenolymphoma of parotid gland  
(B) Pleomorphic adenoma of parotid gland  
(C) Carcinoma of parotid gland  
(D) Myoepithelioma of parotid gland
31. 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
32. 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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33. Chinese letter arrangement is characteristic of:  
(A) *Mycobacterium tuberculosis* (B) *Corynebacterium diphtheriae*  
(C) *Bacillus anthracis* (D) *Clostridium tetani*
34. BCG vaccine is a  
(A) Live attenuated vaccine (B) Killed preparation  
(C) Toxoid preparation (D) Recombinant preparation
35. 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
36. A patient has lesions on the buccal mucosa. There is profuse salivation. Biopsy shows acantholysis and a suprabasilar vesicle. Which is the most likely diagnosis  
(A) Pemphigus (B) Bullous lichen planus  
(C) Psoriasis (D) Erythema multiforme
37. The most important prognostic feature of oral squamous cell carcinoma is  
(A) Size (B) Ulceration  
(C) Local invasion (D) Presence of metastasis
38. 'Sulfur granules' are of diagnostic value in suspected cases of  
(A) Histoplasmosis (B) Actinomycosis  
(C) Scrofula (D) Lead sulfide tissue deposits
39. 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
40. 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
41. The following are non-specific humoral factors EXCEPT :  
(A) Beta-lysin (B) Complement  
(C) Antibodies (D) Interferons
42. An immunoglobulin that is synthesized locally and concentrated in various body secretions is:  
(A) IgA (B) IgG  
(C) IgM (D) IgD

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43. Spirochetes can be demonstrated by:  
(A) Phase contrast microscope (B) Light microscope  
(C) Dark field microscope (D) All of these
44. Viruses possess all of the following except:  
(A) Definite shape (B) Metabolism  
(C) Ultramicroscopic size (D) Genes
45. Which of the following component of complement has chemotactic activity?  
(A) C1 (B) C2  
(C) C8 (D) C3
46. 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
47. The most commonly used local anaesthetic agent is :  
(A) Benzocaine (B) Ropivacaine  
(C) Cocaine (D) Lignocaine
48. Tramadol is :  
(A) Antacid (B) Opioid analgesic  
(C) Antibiotic (D) Antifungals agent
49. Dental discoloration can be caused by :  
(A) Doxycycline (B) Amoxicillin  
(C) Clindamycin (C) Ciprofloxacin
50. Nitrates are not used in :  
(A) Congestive cardiac failure (B) Esophageal spasm  
(C) Renal colic (D) Cyanide poisoning
51. Which of the following coagulation factor is not vitamin K dependent :  
(A) Factor V (B) Factor II  
(C) Factor VII (D) Factor X
52. Which out of the following spread through feco-oral route?  
(A) Hepatitis C (B) Hepatitis B  
(C) Hepatitis E (D) Hepatitis D
53. All of the following drugs have anticoagulants property except :  
(A) Dabigatran (B) Rivoroxaban  
(C) Warfarin (D) Aspirin
54. 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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55. Which one of the following antiepileptic drug is associated with gingival overgrowth :  
(A) Sodium valproate (B) Carbamazepine  
(C) Phenytoin (D) Clobazam
56. Epulis arises from :  
(A) Enamel (B) Root of teeth  
(C) Gingiva (D) Pulp
57. Which of the following is a true statement regarding Warthin tumor?  
(A) Commonest in females  
(B) Most malignant  
(C) Hot spot on Tc-99m  
(D) Most common tumor of minor salivary gland
58. Who said "*skin is the best dressing*"?  
(A) Joseph Lister (B) John Hunter  
(C) James Paget (D) Mc Neill Love
59. 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
60. Best view for X-Ray mandible is :  
(A) Antero-posterior (B) Lateral  
(C) Oblique (D) Orthopantomogram
61. Which of the following is not a true wax?  
(A) Paraffin (B) Ozokerite  
(C) Cocoa butter (D) Candelilla
62. Munsell's system is used for:  
(A) Quality of colour  
(B) Quantity of colour  
(C) Quality of colour & Quantity of colour  
(D) None
63. Maxwell – Voight model is to determine:  
(A) Elastic behavior (B) Plastic behavior  
(C) Viscoelastic behavior (D) All of the above
64. The metal alloy causing carcinoma is:  
(A) Nickel (B) Cobalt  
(C) Chromium (D) Carbon
65. Borate used in Agar acts as:  
(A) Retarder (B) Hardening agent  
(C) Strengthens the gel (D) Accelerator

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66. Photopolymerization stress build-up can be reduced by:  
(A) High density curing (B) Soft start polymerization  
(C) Delayed curing (D) Short exposure time
67. The wetting agents used in casting procedures are used :  
(A) To facilitate wetting of ring liner  
(B) To facilitate mixing investment  
(C) To reduce contact angle of liquid with wax surface  
(D) For better wax elimination
68. Space lattice refers to:  
(A) Inter atomic movement (B) Inter atomic balance  
(C) Arrangement of atoms (D) Arrangement of molecules
69. Dimensional stability of elastomeric impression material can be given in descending order as:  
(A) Polysulphide > Polyether > Condensation silicone > Addition Silicone  
(B) Polyether > Condensation silicone > Polysulphide > Addition Silicone  
(C) Addition Silicone > Polyether > Polysulphide > Condensation silicone  
(D) Addition Silicone > Condensation silicone > Polysulphide > Polyether
70. pH of polycarboxylate liquid is:  
(A) 5 (B) 7  
(C) 8 (D) 1.7
71. Pyroplastic flow of porcelain is due to :  
(A) High temperature during glazing (B) Low temperature during glazing  
(C) Improper condensation (D) High firing temperature
72. Coefficient of thermal expansion of metal ceramic alloy is:  
(A) Same as porcelain (B) More than porcelain  
(C) Less than porcelain (D) More than or equal to porcelain
73. pH of fully set zinc phosphate is:  
(A) 3-4 (B) 4-5  
(C) 6-7 (D) 7-8
74. The gold alloys used for casting contain at least \_\_\_\_\_ percent of precious metal according to ADA specification number 5  
(A) 55 (B) 65  
(C) 75 (D) 85
75. Passivating alloys are:  
(A) Cr,Al,Ti (B) Cr,Mo,Ti  
(C) Cr, Gold, Ti (D) Cr, Fe ,Ti
76. The rapid decrease in tensile strength and increase in ductility of a wrought metal is seen in which of the following stage of annealing?  
(A) Recovery stage (B) Recrystallization stage  
(C) Grain growth stage (D) All of the above

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77. Mahler Scale is used to describe :  
(A) Tarnish (B) Corrosion  
(C) Suck Back Porosity (D) Marginal defect
78. BisGMA, TEGDMA And HEMA for improved wear resistance and decreased sensitivity to water attack are the additional components in which of the following cement?  
(A) Silver Cement (B) Zinc phosphate  
(C) Cermet (D) Resin Modified GIC
79. For photocuring of the composite resin, the light source:  
(A) Should be held at one meter distance from the composite resin  
(B) Needs no protection while in use  
(C) Will cure composite upto a depth of 5mm thickness  
(D) Is fibre optic
80. If curing is done at the temperature of more than 100°C, porosity results in which of the following area of the denture?  
(A) Thin palatal area (B) Thin areas of the flanges  
(C) Hard thick central area (D) Porosity is uniformly distributed
81. Water of reaction needed to react completely with 100g of calcium sulphate hemihydrate to convert it to calcium sulphate dihydrate is :  
(A) 18.6 ml (B) 22.2 ml  
(C) 30.4ml (D) 45.3 ml
82. Placing cast under tap water should be avoided as:  
(A) H<sub>2</sub>O interferes with hygroscopic expansion  
(B) H<sub>2</sub>O inhibits polymerization of dental resin  
(C) H<sub>2</sub>O interferes with the crystallization of dehydrate  
(D) Gypsum is slightly soluble in water and the surface of cast will be Eroded
83. Brush heap structure is found in:  
(A) Zinc oxide impression material (B) Agar  
(C) Condensation silicone (D) Polyether
84. Highest permanent deformation is seen in which of the following impression material?  
(A) Addition Silicones (B) Impression plaster  
(C) Condensation silicone (D) Polysulphides
85. Formula for sheer modulus is :  
(A)  $G = 1.38 N$  (B)  $G = 0.38 E$   
(C)  $G = 0.38 N$  (D)  $G = 1.38 E$
86. Apart from the composites and ceramics, another material that could be copy milled easily and inexpensively is :  
(A) Molybdenum (B) Germanium  
(C) Titanium (D) Chromium

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87. Turbulence of molten Gold is due to:  
(A) Impurities in gold (B) Improper Venting  
(C) Both A and B (D) None of the above
88. Palladium added in polyvinyl Siloxane acts as :  
(A) Scavenger (B) Surfactant  
(C) Plasticizer (D) Catalyst
89. The ability of the base to resist occlusal forces and to support the restoration is affected by:  
(A) Compressive strength (B) Tensile strength  
(C) Young's Modulus (D) Modulus of elasticity
90. Which of the following is incorrect, if the coefficient of thermal expansion of enamel is 1?  
(A) Unfilled resins – 7.11 (B) Dentin – 0.75  
(C) Silicates – 1.996 (D) Gold – 1.23
91. Too small casting is the result of :  
(A) Excessive expansion (B) Distorted wax pattern  
(C) Improper wax handling (D) Too little mould expansion
92. Powder of which cement is referred as “ion leachable glass” :  
(A) Silver Cermet (B) Glass ionomer Cement  
(C) Glass Cermet (D) Compomer
93. Which of the following gases used for soldering purposes has the highest flame temperature?  
(A) Hydrogen (B) Natural gas  
(C) Propane (D) Acetylene
94. The component which acts as a retarder in Alginate is:  
(A) Calcium sulphate (B) Sodium phosphate  
(C) Potassium alginate (D) Diatomaceous earth
95. Benzoyl peroxide in self-cure resin acts as:  
(A) Initiator (B) Inhibitor  
(C) Activator (D) Plasticizer
96. All of the following chemicals can be used to accelerate the setting of gypsum products except:  
(A) Terra alba (B) Rochelle salt  
(C) Syngenite (D) Kieselguhr
97. Normal setting expansion for gypsum bonded investment is:  
(A) 1.2% (B) 0.6%  
(C) 5% (D) 2.8%

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98. Wet field technique is used for which of the following impression material:  
(A) Agar (B) Impression compound  
(C) Impression plaster (D) Polyether
99. All of the following materials are used as bite registration materials except:  
(A) Dental plaster (B) Zinc oxide eugenol  
(C) Alginate (D) Addition silicone
100. All of the following are pattern waxes except:  
(A ) Inlay wax (B) Casting wax  
(C) Base plate wax (D) Beading wax