

# PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Feb-2016) for Recruitment of Medical Officers Dental in the Department of Health & Family Welfare, Govt. of Punjab.

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Candidate's Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Date of Birth    Category Code\*   
DD MM YYYY (\*as given in the admit card)

OMR Response Sheet No. \_\_\_\_\_

Roll No. \_\_\_\_\_

Candidate's Signature (Please sign in the box)



Question Booklet Set

**A**

Booklet Series No.

00001717

## INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant columns (other than the columns related to marking responses to the questions) of the Optical Mark Reader (OMR) response sheet, supplied separately.	9. The candidates shall ensure that the responses are marked in correct manner and any adverse impact due to wrong marking of responses would be the responsibility of the respective candidate. The following are some of the examples of wrong marking of responses on the OMR response sheet. 
2. Use only blue or black ball point pen to fill the relevant columns on this page. Use of fountain pen may leave smudges which may make the information given by the candidate here illegible.	10. The candidates, when allowed to open the question paper booklet, must check the booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should immediately bring this fact to the notice of the invigilation Staff and obtain a booklet of the same series as given earlier.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible.	11. The serial number of the new booklet should be entered in the relevant column of the OMR. The invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of question booklet.
4. Before attempting the paper, the candidate must fill all the columns given above on this page and sign at the appropriate place.	12. The question paper booklet has 13 pages.
5. Each candidate is required to attempt 100 questions in 120 minutes, except for visually impaired candidates, who would be given 20 extra minutes, by marking correct responses on the OMR sheet which would be supplied separately to the candidates.	13. Each question shall carry three marks.
6. The candidate must write the following on the OMRs sheet: (a) Serial number of OMR sheet supplied to him/her for marking the responses to the questions. (b) Serial number of the question booklet (c) Series of the question booklet. Failure to do so may lead to cancellation of candidature or any other action which the Commission may deem fit.	14. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet using blue or black ball point pen.
7. The candidate should darken the appropriate response to the question by completely darkening the appropriate circle/oval according to his/her choice of response i.e. a, b, c or d in the manner shown in the example below. 	15. There is no negative marking for wrong answers or questions not attempted by the candidate.
8. Partly darkening the circle/oval on the OMR response sheet or using other symbols such as tick mark or cross would not result in evaluation of the response as the OMR scanner can only interpret the answers by reading the darkened responses in the manner explained in preceding paragraph. Darkening more than one circle/oval as response to a question shall also be considered as wrong answer.	

1. Hutchinson triad includes all of the following except:
  - a) Interstitial keratitis
  - b) Hutchinson's teeth
  - c) Vestibular deafness
  - d) Saddle nose
  
2. Difference between sebaceous dysplasia and facial hemi hypertrophy is:
  - a) Expansion of jaws
  - b) Effect on tooth size
  - c) Disturbance in eruption pattern
  - d) None of the above
  
3. Jaffe and Albright syndrome is associated with:
  - a) Fibrous dysplasia
  - b) Osteopetrosis
  - c) Paget's disease
  - d) Marfans syndrome
  
4. Material used as a preservative for catgut suture during packaging is:
  - a) Colloidal iodine
  - b) Gluteral dehyde
  - c) Isopropyl Alcohol
  - d) 6% Hydrogen peroxide
  
5. Psychic Triad has:
  - a) Id
  - b) Ego
  - c) Super ego
  - d) All of the above
  
6. Child showed refusal of treatment, crying forcefully is categorized according to Frankle as:
  - a) Rating 1
  - b) Rating 2
  - c) Rating 3
  - d) Rating 4
  
7. Treating children involves:
  - a) One to two relationship
  - b) One to one relationship
  - c) One to three relationship
  - d) None of the above
  
8. Acquisition of Child's sense of trust begins:
  - a) Birth to two years of age
  - b) At two years of age
  - c) At three years of age
  - d) At four years of age
  
9. Flooding technique of behaviour management includes:
  - a) HOME
  - b) Aversive conditioning
  - c) Physical restrains
  - d) All of the above



10. In primary dentition, it is advisable that working length would be shortened to:
- 2-3 mm short of radiographic apex
  - 0.5 mm short of radiographic apex
  - 0.5-1 mm short of radiographic apex
  - 3.5-4.0 mm short of radiographic apex
11. During administration of local anaesthesia to the patient, inadvertently needle pricked the dentist. The dentist subsequently develops fever, malaise and raised serum SGOT and SGPT. Symptoms suggest that he is suffering from:
- Serum hepatitis
  - Infectious hepatitis
  - Infectious mononucleosis
  - HIV
12. Bone morphogenic protein is:
- Osteo-inductive
  - Osteoconductive
  - Osteogenesis
  - Osteoporosis
13. The patient maintains a patent airway independently and responds to stimuli in:
- Conscious sedation
  - Deep sedation
  - GA
  - Ketamine
14. Blood pressure of children is:
- Lower than adult
  - Equal to the BP of adult
  - Higher than BP of adult
  - All of the above
15. Children have much greater risk of airway obstruction as compared to adult in conscious sedation:
- Children have narrow nasal passages
  - Glottis combined with hypertrophic tonsils
  - A greater secretions
  - All of the above
16. In rough textured skin, tooth arrangement most suitable is:
- Rugged tooth arrangement
  - Smooth tooth arrangement
  - Straight tooth arrangement
  - Curvilinear tooth arrangement
17. Communication is a complex multi sensory, process. It includes:
- Transmitter
  - Medium
  - Receiver
  - All of the above

18. The purpose of prenatal oral health counselling is:
- To educate the parent about dental development of child, dental disease and its prevention
  - To provide appropriate environment for child
  - To strengthen and prepare the child and dentition for life
  - All of the above
19. Topical fluoride should be recommended in individuals:
- Wearing fixed or removable prosthesis
  - After periodontal surgery where root of tooth have been exposed
  - Mentally or physically handicapped patients
  - All of the above
20. The normal intrapulpal pressure is:
- 5-14 mmHg higher than normal BP
  - 2-3 mmHg higher than normal BP
  - 20-25 mmHg lower than normal BP
  - 25-35 mmHg lower than normal BP
21. Which of the following is not essential for normal biosynthesis of thyroid hormones?
- Iodine
  - Ferritin
  - Thyroglobulin
  - TSH
22. Megaloblastic anaemia due to folic acid deficiency is commonly due to:
- Absence of glutamic acid in the intestine
  - Absence of folic acid binding protein in serum
  - Inadequate dietary intake
  - Defective intestinal absorption
23. The thyroidal uptake of radioactive iodine is not affected by:
- Calcitonin
  - T<sub>3</sub>
  - TSH
  - Propylthiouracil
24. Mayne space maintainer is:
- Nonfunctional space maintainer
  - Functional space maintainer
  - Both of the above
  - None of the above
25. ART was 1<sup>st</sup> discovered in Tanzania in mid 1980s to suit the need of the developing countries by:
- JE Franken
  - GV black
  - Marzouk
  - Sturdevant

26. The advantage of indirect ceramic restoration over the composite for the treatment of diastema includes:
- Higher compressive strength
  - High abrasion resistance
  - Low plaque accumulation
  - All of the above
27. The goal (s) of preprosthetic surgery is/are:
- To enlarge denture bearing area
  - To limit denture bearing area
  - Both of the above
  - None of the above
28. The bond acting over an osseointegrated implant is:
- Biomechanical
  - Micromechanical
  - Chemical
  - None of the above
29. Bruxism habit in complete denture patient can cause:
- Mucosal irritation
  - Bone loss
  - Both of the above
  - Blood loss
30. Stainless Steel crown usually serves a child for:
- 5-10 years
  - 1-2 years
  - 2-3 years
  - None of the above
31. Dislocated mandible can be treated by:
- Depressing the jaw and depressing the chin
  - Depressing the jaw posteriorly and elevating the chin
  - Elevating the jaw and elevating chin
  - Depressing the chin and elevating the jaw posteriorly
32. Which of the following nerves lies posterioinferior to angle of mandible?
- Marginal Mandibular branch of Facial nerve
  - Cervical branch of Facial
  - Buccal branch of Facial
  - Zygomatic branch of Facial
33. Nasolacrimal duct opens into:
- Anterior part of inferior meatus
  - Vestibule of nose
  - Middle meatus
  - Superior meatus



34. Facial nerve status can be tested by asking a person to:
- Show his/her teeth
  - To look upward without moving his head and look for normal horizontal wrinkles on the fore head
  - Tightly close his/her eyes to test the orbicularis oris muscles
  - All of the above
35. Which of the following statement is true regarding fillers of composite?
- It reduces polymerization shrinkage
  - It increases hardness and strength of composite
  - It increases wear resistance
  - All of the above
36. Annealing is:
- A controlled heating and cooling process designed to produce desired properties in a metal
  - Process of plastically deforming a metal
  - Hammering of metal into thin sheet without fracture
  - It is a type of work hardening
37. In an early carious lesion, the first structure to show evidence of destruction is the:
- Enamel prism
  - Cuticle
  - Interprismatic substance
  - Lamellae
38. Fluoride safe dose is:
- 8-16 mg F/kg body weight
  - 16-32 mg F/kg body weight
  - 30-64 mg F/kg body weight
  - 12-30 mg F/kg body weight
39. Which of the following cements is most biocompatible with pulp?
- GIC
  - Copper cement
  - Zinc phosphate cement
  - Zinc oxide eugenol cement
40. Most common cause of pulp pathology is:
- Microbes
  - Trauma
  - Leakage from filling materials
  - Pressure sensation from condensation of filling materials
41. Fluoride content is more in which milk product?
- Cheese
  - Butter
  - Sea fish
  - Coconut water

42. The most common form of hypoxia is:
- a) Hypoxic
  - b) Stagnant
  - c) Anemic
  - d) Histotoxic
43. Investment material used for cobalt-chromium alloys is:
- a) Gypsum bonded
  - b) Phosphate bonded
  - c) Silica bonded
  - d) None of the above
44. Most common cause of pulmonary embolism is:
- a) Thrombophlebitis
  - b) Endarteritis
  - c) Atherosclerosis
  - d) Lymphangitis
45. The most common tooth to get impacted (excluding the 3<sup>rd</sup> molar) is:
- a) Maxillary canine
  - b) Mandibular canine
  - c) Maxillary II premolar
  - d) Mandibular II premolar
46. The type of gold alloy used in fixed partial dentures is:
- a) Soft gold
  - b) Hard gold
  - c) Medium gold
  - d) Extra hard gold
47. Elastomers except polyether are:
- a) Hydrophilic
  - b) Hydrophobic
  - c) Water loving impression materials
  - d) Potassium alginates
48. Stellate reticulum is seen in:
- a) Dental lamina
  - b) Enamel organ
  - c) Hertwig's root sheath
  - d) All of the above
49. Saponification means hydrolysis of fats by:
- a) Acid
  - b) Alkali
  - c) Water
  - d) Enzymes

50. Actinomycosis is caused by:
- Fungus
  - Acid fast non motile bacillus
  - Anaerobic gram positive non acid fast bacteria
  - Retrovirus
51. Ammonia treated gold foil is also known as:
- Cohesive foil
  - Non cohesive foil
  - Corrugated foil
  - Non corrugated foil
52. The function of vitamin K is:
- Thrombin formation
  - Prothrombin formation
  - Fibrin formation
  - Thromboplastin formation
53. The inner surface of ceramic veneer is etched with:
- 50% Phosphoric acid
  - 30% Polyacrylic acid
  - 35% Citric acid
  - 5% Hydrofluoric acid
54. Pierre Robin syndrome is:
- Cleft palate with syndactyly
  - Cleft palate with mandibular hypoplasia and respiratory obstruction
  - Cleft lip with mandibular hypoplasia
  - Cleft lip
55. Port wine stain is characteristic feature of:
- Peutz Jegers Syndrome
  - Sturge Weber Syndrome
  - Albright's Syndrome
  - Lymphangioma
56. Drug of choice in treatment of trigeminal neuralgia is:
- Carbamazepine
  - Phenobarbitone
  - Chlorpromazine
  - Indomethacin
57. Secondary retention for a removable partial denture is provided by:
- The indirect retainer
  - The direct retainer
  - Intimate contact between the denture bases and the underlying tissues
  - Direct and indirect retainer
58. In a 9-year old child, caries is commonly seen on:
- Occlusal surface of lower permanent first molar
  - Occlusal surface of upper permanent first molar
  - Distal surface of lower permanent first molar
  - Mesial surface of upper permanent first molar



59. Neonatal lines are seen in:
- Enamel of deciduous incisors
  - Enamel of permanent incisors
  - Enamel of premolars
  - Dentin of all teeth
60. Masseteric nerve is a branch of:
- Long buccal nerve
  - Mandibular division of trigeminal nerve
  - Maxillary division of trigeminal nerve
  - Motor branch of facial nerve
61. The treatment for acute periodontal abscess is:
- The drainage of abscess through incision only
  - Incision & drainage followed by flap surgery after the symptoms subside
  - Incision should not be given through ultrasonic tip
  - Incision should be given only external level
62. The cells of the dental pulp which are responsible for the deposition of reparative dentin are:
- Osteoblasts
  - Odontoblasts
  - Ameloblasts
  - Osteocytes
63. The tongue is formed from:
- 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> branchial arches
  - 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup> branchial arches
  - 1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup> branchial arches
  - 1<sup>st</sup>, 4<sup>th</sup>, 5<sup>th</sup> branchial arches
64. Palatal cusp of upper posterior teeth in complete denture patients should fall on:
- Crest of mandibular ridge
  - Lingual to crest of mandibular ridge
  - Buccal to crest of mandibular ridge
  - Buccal vestibule
65. 'Moon face' appearance is seen in:
- Isolated LeFort I fracture
  - LeFort II and LeFort III fracture
  - Mandibular fractures
  - Unilateral zygomatic complex fractures
66. Which of the following is a main ingredient of denture cleaning powder or tablets?
- Hydrogen peroxide
  - Detergents
  - Sodium perborates
  - Alkaline compounds

67. Sialography is used to detect anomaly of:
- Salivary duct only
  - Salivary gland
  - Salivary gland and duct
  - Salivary gland tumours
68. Which of the following diseases is known as the 'kissing disease'?
- AIDS
  - Infectious mononucleosis
  - Primary syphilis
  - Recurrent aphthous stomatitis
69. 'Xerostomia' is seen in all of the following except in:
- Anticholinergic drugs
  - Dehydration
  - Sjogren's syndrome
  - Oral sepsis
70. The best way to differentiate a periapical cyst and a periapical granuloma is:
- Radiographically
  - Histologically
  - Clinically
  - None of the above
71. Bacteria responsible for initiation of caries is:
- Actinomyces
  - Streptococcus Mutans
  - Lactobacillus
  - Strep. Viridians
72. Entrance into the sinus in a Caldwell procedure is made through the:
- Malar eminence
  - Canine fossa
  - Tuberosity
  - Zygomatic ridge
73. One of the major disadvantages of immediate denture treatment is:
- Pain associate with treatment
  - Difficulty in managing occlusions
  - Need for reline
  - No control over tooth placement and shape
74. Rotavirus belongs to the:
- Picornavirus
  - Reovirus
  - Togavirus
  - Paramyxovirus

75. Which of the following is considered to be normal haemoglobin?
- Hb H
  - Hb S
  - Hb M
  - Hb A
76. In a normal arrangement of teeth which of the teeth are most often in abnormal relation and contact with adjacent teeth in same arch?
- Mandibular 1<sup>st</sup> Premolar
  - Maxillary 1<sup>st</sup> Molar
  - Mandibular 2<sup>nd</sup> Molar
  - Maxillary Lateral Incisor
77. You notice that your patient's submandibular lymph nodes are enlarged. You would look for potential infection sites in the:
- Hard palate
  - Hard palate and upper lip
  - Hard palate, upper lip and upper central incisor
  - Hard palate, upper lip, upper central incisor and lower first molar
78. Most commonly congenitally missing tooth is:
- Upper lateral incisors
  - Upper 1<sup>st</sup> premolar
  - Upper central incisor
  - Lower lateral incisor
79. A child aged 4 would be classified developmentally according to Stone and Church as a:
- Toddler
  - Preschooler
  - Middle year child
  - Adolescent
80. When a patient is exposed step by step in a hierarchy from the least to the most stressful procedures repeatedly until there is no evidence of stress, the procedure is known as?
- Modeling
  - Desensitization
  - Restraining
  - Reinforcement
81. How will the alveolar ridge respond to a mandibular complete denture base that terminates short of retromolar pad:
- Marked ridge resorption will occur
  - The apposition of bone on the ridge will occur
  - The alveolar ridge will not be affected at all
  - Soreness of the soft tissue
82. Classically the epithelial rete ridges show a saw tooth appearance, hyperkeratosis or parakeratosis, hydropic degeneration of basal layer and a dense band like infiltrate of Tlymphocytes microscopically in:
- Pemphigus
  - Pemphigoid
  - Linear IgA disease
  - Lichen planus



83. A 60 Year old male presents with unilateral facial paralysis, cutaneous lesions of external auditory meatus hearing defects, and vertigo. What would be your most likely diagnosis?
- Bell's Palsy
  - Melkerson Rosenthal Syndrome
  - Moebius syndrome
  - Ramsay Hunt syndrome
84. The pulpal floor is perforated during access preparation. Which of the following is the best course of action?
- Repair the perforation immediately and continue with RCT
  - Continue RCT and repair the perforation subsequently if associated pathosis develop
  - Continue RCT and repair the perforation at subsequent appointment
  - Perform no further treatment at this time repair the perforation and cont. RCT at next appointment
85. A maxillary central incisor of adult patient is traumatized. The tooth is slightly tender on percussion, in good alignment, responds normally to pulp tests. On taking a x-ray it shows horizontal fracture at apical third of the root. The best treatment is:
- RCT
  - Splint and re evaluate the tooth for pulpal vitality at a later time
  - Apexification
  - Apisectomy to remove the fractured apical section of the root followed by RCT
86. Which of the following statements relates best regarding cavity varnish?
- Varnishes are synthetic resins dissolved in acetone
  - Varnishes are calcium hydroxide in a resin base
  - Varnishes are used to insulate the pulp thermally
  - Varnishes are used beneath restorative resins to insulate the pulp against chemical irritants
87. What is involved in a smoker with scant clear mucoid sputum, quiet sounding chest, hemoptysis, weight loss, destruction of alveolar septae around the respiratory bronchioles, with marked enlargement of the airspaces, and heavy deposits of anthracotic pigment?
- Asthma
  - Chronic bronchitis
  - Emphysema
  - Pulmonary hypertension
88. Which of the following procedures can be undertaken by a trained dental nurse?
- Record dental charting and oral tissue assessment
  - Process dental radiographs
  - Take intra oral and extra raol photographs
  - All of the above
89. All of the following vaccines contain attenuated virus, except:
- Measles
  - Mumps
  - Rubella
  - Influenza

90. A sequence of DNA is TAGTATCAT. What is the sequence in complementary RNA?
- ATCATAGTA
  - AUCAUAGUA
  - UTCUTUGTU
  - AGCAUAGTU
91. The mucosa of the hard palate is:
- Keratinised and has submucosa and minor salivary glands posterolaterally
  - Non-keratinised and has submucosa and minor salivary glands posteromedially
  - Keratinised and lacks submucosa and minor salivary glands
  - Non- Keratinised and lacks submucosa and minor salivary glands
92. Periodontal destruction is considered moderate when:
- 3-4mm of clinical attachment loss has occurred in chronic periodontitis
  - 1-2mm of clinical attachment loss has occurred in chronic periodontitis
  - 5mm or more of clinical attachment loss has occurred in chronic periodontitis
  - 0-1mm of clinical attachment loss has occurred
93. A 55 Year old female presents with severe, electrical and shocking pain in her right cheek triggered by light touch. Clinical examination does not reveal any local cause. Which drug is most likely to be effective for her?
- Balcofen
  - Carbamazepine
  - Ergotamine
  - Sumatriptan
94. Diabetes insipidus results from deficiency of:
- ACTH
  - ADH
  - Prolactin
  - Somatropin
95. Which of the following antibody constitutes about 75% of the antibodies of the normal person?
- IgA
  - IgM
  - IgE
  - IgG
96. A successful infraorbital nerve block will produce anaesthesia of the:
- Maxillary anterior teeth
  - Maxillary anterior teeth and their labial gingivae
  - Maxillary anterior teeth, their labial gingivae and upper lip
  - Maxillary anterior teeth, their labial gingivae, the upper lip and anterior hard palate
97. Mentally retarded child will have an intelligence quotient (IQ) in the range:
- 110-119
  - 80-89
  - 69 and below
  - 40 and up

98. If a patient comes with a history of cardiac problem taking aspirin what will be the possible complication if you do extraction?
- a) Increases bleeding time
  - b) Increases prothrombin time
  - c) Increases clotting time
  - d) Increases partial thrombin time
99. Loss of the apical seal by over instrumentation is best managed by:
- a) Prescribing analgesic and antibiotics
  - b) Filling with warm guttapercha technique
  - c) Filling guttapercha cone larger than the apical forame
  - d) Increasing the file size and decreasing the file length
100. If a patient is unable to touch the tip of his tongue to the roof of his mouth, dysfunction of which of the following muscles is most likely the cause?
- a) Buccinator'
  - b) Geniohyoid
  - c) Palatoglossus
  - d) Palatopharyngeus

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