

**RAJASTHAN UNIVERSITY OF HEALTH SCIENCES, JAIPUR**  
**MEDICAL OFFICER (DENTAL) RECRUITMENT EXAMINATION 2018**

**Date of Exam: 18<sup>th</sup> May 2018 [12:30 PM to 2:30 PM]**

Multiple Choice Question Paper & Answer Key

Correct Answer is mentioned in Square Brackets

1. The Buccinator muscle is supplied by
  - a. Buccal branch of Facial nerve
  - b. Buccal branch of mandibular nerve
  - c. Great auricular nerve
  - d. Temporal branch of facial nerve [a]
  
2. Special sensory supply to anterior 2/3<sup>rd</sup> of tongue is
  - a. Lingual nerve
  - b. Glossopharyngeal nerve
  - c. Chorda tympani
  - d. Vagus nerve [a]
  
3. Recurrent laryngeal nerve is the nerve of
  - a. 1<sup>st</sup> arch
  - b. 2<sup>nd</sup> arch
  - c. 4<sup>th</sup> arch
  - d. 6<sup>th</sup> arch [d]
  
4. Spheno -mandibular ligament is derived from
  - a. Meckel's cartilage
  - b. Reichert's cartilage
  - c. Thyroid cartilage
  - d. Cricoid cartilage [a]

5. The following structures are all examples of elastic cartilage except
- Epiglottis
  - Pinna
  - Cricoid cartilage
  - Cunieforn and corniculate cartilages
- [c]
6. The cutaneous receptor which mediates sensation of light touch is:
- Pacinian corpuscle
  - Merkelø disk
  - Meissner corpuscle
  - Ruffiniø corpuscle
- [c]
7. One of the following statements regarding spermatogenesis is **false**:
- The acrosome of the spermatozoa is derived from the golgi apparatus of the spermatid
  - In males sperm production continues throughout life.
  - The first meiotic division give rise to diploid primary spermatocytes
  - Time required to produce mature spermatozoa from earliest state of spermatogonia is 65 days.
- [c]
8. All the following are matched correctly **except**:
- Alpha cells of pancreas ó glucagon
  - psilon cell of pancreas - ghrelin
  - Adrenal medulla - epinephrine
  - Zonafasciculata ó aldosterone
- [d]
9. Vitamin C hydroxylates which of the aminoacids during formation of collagen
- Cysteine and cystine
  - Serine and threonine
  - Proline and lysine
  - Tyrosine and tryptophan
- [c]

10. Tissues under hypoxic conditions will produce

- a. Lactic acid
- b. Citric acid
- c. Pyruvic acid
- d. Acetic acid

[a]

11. Which of these proton pump inhibitors can be administered intravenously?

- a. Omeprazole
- b. Esomeprazole
- c. Rabeprazole
- d. Pantoprazole

[d]

12. Which of the following drug should not be administered concurrently with sucralfate?

- a. Antacids
- b. Antipyretics
- c. Antabuse
- d. Antiseptics

[a]

13. Which of these is a functional antagonist of histamine?

- a. Noradrenaline
- b. Adrenaline
- c. Isoprenaline
- d. Promethazine

[b]

14. Ondansetron is an antagonist of?

- a. H1
- b. H2
- c. D2
- d. 5HT3

[d]

15. Which of these drugs is given intra-articularly in TMJ pain?

- a. Paracetamol
- b. VitB12
- c. Triamcnenolone
- d. Penicillin

[c]

16. When the dysplastic changes are marked and involve the entire thickness of the epithelium, it's known as

- a. Carcinoma
- b. Carcinoma in situ
- c. Invasive cancer
- d. Metaplasia

[b]

17. Rodent ulcer is

- a. Gastric ulcer
- b. Ulcerative gingivitis
- c. Squamous cell carcinoma
- d. Basal cell carcinoma

[d]

18. The following UV light is attributed for the induction of cutaneous cancers

- a. UV A
- b. UV B
- c. UV C
- d. UV D

[b]

19. Malignant pustule is caused by

- a. Hepatitis B virus
- b. Bacillus anthracis
- c. Staphylococcus aureus
- d. Borreliavinceti

[b]

20. Inclusion bodies of vaccinia are known as

- a. Guarnieri bodies
- b. Negri bodies
- c. Bollinger bodies
- d. Molluscum bodies

[a]

21. Calcification of primary teeth begins in utero from ----- weeks post fertilization.

- a. 4-8 weeks
- b. 8-12 weeks
- c. 13-16 weeks
- d. 17-20 weeks

[c]

22. When two teeth in the same arch are in contact, their curvatures adjacent to the contact areas form spillway spaces called -----.

- a. Embrasures
- b. Ridges
- c. Fissures
- d. Grooves

[a]

23. First evidence of calcification in a permanent maxillary central incisor

- a. 1-2 months
- b. 2-3 months
- c. 3-4 months
- d. 4-5 months

[c]

24. Volume of saliva is -----.

- a. 600-1000 ml/day
- b. 1500-2000 ml/day
- c. 2500-3000 ml/day
- d. 3500-4000 ml/day

[a]

25. From the buccal aspect, the crown of mandibular first molar is roughly ----- .

- a. Square
- b. Trapezoidal
- c. Rectangular
- d. Triangle

[b]

26. Average occlusal force on bicuspid, cuspids and incisors is

- a. 300N, 100N, 150N
- b. 400N, 300N, 200N
- c. 200N, 150N, 100N
- d. 150N, 300N, 450N.

[a]

27. Below proportional limit the material is

- a. Elastic in nature
- b. Plastic in nature
- c. Rigid in nature
- d. Amorphous in nature.

[a]

28. Linear co-efficient of thermal expansion of porcelain is

- a. 12
- b. 35
- c. 16.8
- d. 10.8

[a]

29. The material that is used to scavenge for released hydrogen gas in addition silicone impression material is

- a. Platinum
- b. Palladium
- c. Bismuth
- d. Copper

[b]

30. For impression making purpose alginate should be rich in

- a. Mannuronic acid
- b. Guluronic acid
- c. Maleic acid
- d. Iticonic acid

[a]

31. The process of conversion of quartz to quartz occurs at

- a.  $645^{\circ}\text{c}$
- b.  $573^{\circ}\text{c}$
- c.  $491^{\circ}\text{c}$
- d.  $535^{\circ}\text{c}$

[b]

32. In Taurodontism teeth are described as;

- a. Bull like teeth
- b. Ghost teeth
- c. Shell teeth
- d. Rootless teeth

[a]

33. Greenspan lesion is

- a. Candidal leukoplakia
- b. Hairy leukoplakia
- c. Lichen planus
- d. White spongy nevus

[b]

34. Large epithelioid melanocytes distributed in melanoma in radial growth phase is known as;

- a. Bar bodies
- b. Anitshkow cell
- c. Lipshutz bodies
- d. Buckshot scatter

[d]

35. Flat based bony protuberance occurring on the midline of the hard palate is known as;

- a. Torus mandibularis
- b. Torus palatinus
- c. Osteoma
- d. Cementoma

[b]

36. Type of ameloblastoma with central stellate reticulum cells showing squamous metaplasia is

- a. Acanthomatos type
- b. Basal cell type
- c. Follicular type
- d. Plexiform type

[a]

37. The drug of choice in herpes simplex encephalitis is

- a. Acyclovir
- b. Zovirudin
- c. Amantadin
- d. Vidarubin

[a]

38. What is false in relation to Carey Comb's murmur

- a. Delayed Diastolic murmur
- b. Seen in Rheumatic Murmur
- c. Associated in Aortic Regurgitation
- d. Low pitched murmur

[c]

39. Patient presents 14 hrs after myocardial infarction, test of choice is

- a. Lactate Dehydrogenase
- b. Creatin Phosphokinase
- c. Cardiac Troponins
- d. Myoglobin

[c]

40. Vidal Test is helpful in the diagnosis of

- a. Typhus Fever
- b. Rheumatic Fever
- c. Tuberculosis
- d. Enteric Fever

[d]

41. A 65 year female complains regurgitation of undigested food, few hours after meal, she also have progressive difficulty in swallowing, weight loss and swelling in the neck.

What is your diagnosis? :

- a. Achalasia.
- b. Carcinoma Oesophagus.
- c. Diffuse oesophageal spasm.
- d. Pharyngeal pouch.

[d]

42. Branchial cyst is best differentiated from cold abscess by:

- a. Flactuant.
- b. Transillumination.
- c. Contain cholesterol crystal.
- d. Contain sulphur granules.

[c]

43. Which form of actinomycosis is most common:

- a. Faciocervical.
- b. Thorax.
- c. Ileocecal.
- d. Liver.

[a]

44. Hepatitis-B vaccine produces best antibody response when given on:

- a. Gluteal muscle.
- b. Deltoid.
- c. Quadriceps.
- d. Abdominal muscles.

[b]

45. Identify the false statement
- Tori could be found along the midline of the hard palate
  - Tori could be found along the lingual aspect of the mandible
  - They have a thin mucoperiosteum
  - Surgical removal of tori is an absolute contraindication [d]
46. The patient's involvement in anterior tooth selection does not involve
- Using the old records and photographs of the patient.
  - The Patient choosing the colour of their teeth
  - Patient selecting the mesio distal width of the six anteriors
  - Patient selecting the mold of the teeth [c]
47. The average need of Calcium of elderly persons is about
- 500 mg
  - 1000 mg
  - 300 mg
  - 1800 mg [b]
48. Identify the correct sequence in the pathogenesis of residual ridge resorption
- Depressed, knife edged, high well rounded, low well rounded
  - High well rounded, knife edged, low well rounded, depressed
  - Knife edged, depressed, high well rounded, low well rounded
  - low well rounded, depressed, knife edged, high well rounded [b]
49. According to the International Workshop Classification, the Class III- A articulator
- Accepts a face bow transfer and a protrusive record
  - Accepts a face bow transfer , a protrusive record and a lateral record
  - Accepts three dimensional dynamic registrations
  - Does not accept a face bow transfer [a]

50. Resilient liners are indicated for the following purposes EXCEPT
- a. When surgery for bony undercuts is contraindicated
  - b. Restoration of congenital oral defects
  - c. Ill fitting dentures
  - d. Edentulous arch opposing natural dentition. [c]
51. Altering the position of the cast in space by manipulating the cast table, thereby changing the long axis of each tooth relative to the horizontal plane is called
- a. Dimpling
  - b. Surveying
  - c. Scribing
  - d. Tilting [d]
52. The higher the C-factor of a tooth preparation
- a. The lower the potential for composite polymerization shrinkage stress
  - b. The higher the potential for composite polymerization shrinkage stress
  - c. The lower the need for composite finishing and polishing
  - d. The higher the need for composite finishing and polishing [b]
53. The linear coefficient of thermal expansion of amalgam
- a. Is 3 times greater than that of tooth structure
  - b. Is 2.5 times greater than that of tooth structure
  - c. Is 1.5 times greater than that of tooth structure
  - d. Is similar to that of tooth structure [b]
54. Adhesion of conventional glass ionomers to enamel, dentin or both produces macroshear bond strengths of
- a. 35-50 MPA
  - b. 22-35 MPA
  - c. 15-20 MPA
  - d. 6-12 MPA [d]

55. Wedge ó Wedging technique is used with the matrix band
- a. When a gingival margin of the proximal tooth preparation is concave
  - b. When the proximal box is wide faciolingually
  - c. When the gingival interproximal tissue is receded
  - d. In preparation with moderately extended gingival margin
- [a]

56. The critical pH required for enamel demineralization is
- a. 3.5
  - b. 4.5
  - c. 5.5
  - d. 6.5
- [c]

57. Indications for tunnel restorations are
- a. Narrow pit and fissure caries
  - b. Large proximal caries involving marginal ridges
  - c. Small proximal caries without the involvement of marginal ridge
  - d. Caries on root surface
- [c]

58. The gingival zenith point is
- a. The most apical point of the gingival tissue along the long axis of the tooth
  - b. The most coronal point of the gingival tissue
  - c. V shaped space apical to the interproximal contact area
  - d. V shaped space incisal to the interproximal contact area
- [a]

59. Both direct and indirect light reflex are missing in injury to which cranial nerve?
- a. Optic
  - b. Oculomotor
  - c. Trochlear
  - d. Trigeminal
- [b]

60. The submandibular fascial spaces are divided into upper sublingual and lower submandibular spaces by

- a. Mylohyoid nerve
- b. Buccinator muscle
- c. Geniohyoid muscle
- d. Mylohyoid muscle.

[d]

61. EMLA consists of eutectic mixture composed of

- a. Lidocaine 2.5%,Prilocaine 5.5%
- b. Lidocaine 2.5%,Prilocaine 2.5%
- c. Lidocaine 25%,Prilocaine 25%
- d. Lidocaine 5.2%,Prilocaine 5.2%

[b]

62. The most common tumor found in parotid region is

- a. Pleomorphic adenoma
- b. Mucoepidermoid carcinoma
- c. Pleomorphic adenocarcinoma
- d. Adenoid cystic carcinoma

[a]

63. Which of the following muscle depresses the mandible?

- a. Lateralpterygoid
- b. Medialpterygoid
- c. Masseter
- d. Temporalis

[a]

64. Which of the following odontogenic cysts has a higher rate of recurrence?

- a. Dentigerous cyst
- b. Odontogenic keratocyst
- c. Lateral periodontal cyst
- d. Eruption cyst

[b]

65. The figure of eight suture is used for

- a. Extraction site
- b. Closure of deep wounds
- c. Securing grafts
- d. Any surgical site.

[a]

66. Which of the following is not a non-keratinocyte cell found in gingival epithelium?

- a. Langerhans Cell
- b. Melanocyte
- c. Leukocyte
- d. Merkel Cell

[c]

67. Which of the following is a bacterial derived chemotaxin for neutrophils?

- a. Leukotriene B<sub>4</sub>
- b. Tumor Necrosis Factor
- c. N-formyl-methionyl peptides
- d. Interferon-

[c]

68. The predominant cell found in stage III gingivitis is:

- a. Plasma cells and B-lymphocytes
- b. Plasma cells and T-lymphocytes
- c. Neutrophils
- d. Macrophages and Monocytes

[a]

69. Radius of action within which bacterial plaque can induce bone loss.

- a. 1.4 to 2.4 mm
- b. 1.3 to 2.3 mm
- c. 1.5 to 2.5 mm
- d. 1.2 to 2.2 mm

[c]

70. The probe which helps to detect both probing depth measurement and cement-enamel junction.

- a. Perioprobe
- b. Interprobe
- c. Toronto Automated Probe
- d. Foster-Miller Probe [d]

71. Which Gracey curette is used for scaling distal surfaces of posterior teeth?

- a. Gracey Curette #13-14
- b. Gracey Curette #11-12
- c. Gracey Curette #7-8
- d. Gracey Curette #9-10 [a]

72. Subantimicrobial Dose of Doxycycline used for host modulation therapy is:

- a. 200 mg
- b. 20 mg
- c. 2 mg
- d. 0.2 mg [b]

73. Edward Angle's key ridge refers to which anatomical structure?

- a. Canine eminence
- b. Inferior tip of the Pterygomaxillary fissure
- c. Maxillary tuberosity
- d. Base of the zygomatic arch [d]

74. The primary dentition equivalent of Angle's Class II molar relationship is

- a. Mesial step
- b. Distal step
- c. Flush terminal plane
- d. End on [b]

75. In Scammon's curves, although the correlation is not perfect, the growth of the mandible more closely follows the

- a. Lymphoid growth curve
- b. Neural growth curve
- c. General body growth curve
- d. Genital growth curve

[c]

76. Which of the following is a characteristic of an infantile swallow?

- a. The teeth are together.
- b. The mandible is stabilised by contraction of the muscles of the seventh cranial nerve.
- c. The tongue tip is held against the palate, above and behind the incisors.
- d. Minimal contractions of the lips.

[b]

77. In dolicocephalic individuals, the dental arch form which is usually found is

- a. Broad and U shaped
- b. Long and narrow
- c. Paraboloid or average
- d. Square

[b]

78. In Moyers' prediction tables, the sum of the mesiodistal widths of which teeth are used to predict the sizes of the unerupted canines and premolars?

- a. Primary mandibular incisors
- b. Primary maxillary incisors
- c. Permanent mandibular incisors
- d. Permanent maxillary incisors

[c]

79. In Downs analysis, the Y axis is drawn by connecting S (sella) to

- a. Pogonion
- b. Gnathion
- c. Menton
- d. Gonion

[b]

80. Tell show do technique of child management was introduced by

- a. Bandura
- b. Addleston
- c. Coope
- d. Wright

[b]

81. Frankel behavior rating system does not include following behavior

- a. Definitely positive
- b. Definitely negative
- c. Positive
- d. Indifferent

[d]

82. Restoration of choice in endodontically treated primary second molar in 9 year old child is

- a. Stainless steel crown
- b. Cast gold crown
- c. Amalgam
- d. Zinc oxide eugenol

[a]

83. Which of the following series act as best space maintainer in child's mouth

- a. Restored deciduous tooth
- b. Acrylic partial denture
- c. Distal shoe space maintainer
- d. Band & loop space maintainer

[a]

84. Stainless steel crown was introduced by

- a. Humphery
- b. Stewart
- c. Mc. Donald
- d. Pinkham

[a]

85. Rubber dam was introduced by

- a. Tomy Hanks
- b. S.C.Barnum
- c. Hedstorm
- d. G.V.Black

[b]

86. In class III Ellis fracture

- a. Only enamel is involved
- b. Enamel & dentin are involved
- c. Enamel , dentine & pulp are involved
- d. Non-vital pulp

[c]

87. Global monitoring age for caries for international comparison and monitoring of disease trends:

- a. 6 years
- b. 12 years
- c. 18 years
- d. 24 years

[b]

88. What is the relation between prevalence and incidence?

- a. Prevalence = incidence x mean duration    b. Prevalence = incidence / mean duration  
c. Both a and b    d. Prevalence = 1 / incidence

- a. a  
b. b  
c. c  
d. d

[a]

89. Fluoride mouth rinses containing 0.05 % Sodium fluoride have been recommended for :

- a. Daily use  
b. Weekly use  
c. Monthly use  
d. Bi-Annual use

[a]

90. Positive predictive value is:

- a. The probability of a positive result if the disease is present  
b. The probability of a negative result if the disease is absent  
c. The probability that the disease is present if test is positive  
d. The probability that the disease is absent if test is negative

[c]

91. Non-caloric sweeteners include:

- a. Xylitol  
b. Sorbitol  
c. Saccharin  
d. Lycasin

[c]

92. The school health programme that incorporates motivation of parents through home visits is:

- a. Askov dental demonstration  
b. North Carolina Statewide Preventive dental health programme  
c. Tattle tooth Programme  
d. School Health Additional Referral programme (SHARP)

[d]

93. A non-random sampling technique is:
- a. Systematic sampling
  - b. Convenience sampling
  - c. Multistage sampling
  - d. Cluster sampling
- [b]

94. White appearance of oral mucosa may be caused by
- a. Atrophic epithelium
  - b. Increased vascularization
  - c. Break in the epithelium
  - d. Thickening of stratum spinosum.
- [d]

95. Which of the following isolation technique for candida organisms is useful to determine relative distributions of the yeasts on oral surfaces?
- a. Swab method
  - b. Imprint culture
  - c. Impression culture
  - d. Oral rinse technique
- [c]

96. Applying pressure to a suspected vascular lesion to visualize the evacuation of coloration is also termed as
- a. Veloscopy
  - b. Diascopy
  - c. Chelioscopy
  - d. Angioscopy.
- [b]

97. Which of the following is a cause of sialorrhea?
- a. Anticholinergic medications
  - b. Anti- Parkinson's medications
  - c. Lithium
  - d. Skeletal muscle relaxants
- [c]

98. The primary blood borne agents causing septic arthritis in a previously normal TMJ are

- a. Gonococci
- b. Staphylococcus aureus
- c. Streptococcus mutans
- d. Actinomyces israelii

[a]

99. The dose of prednisone for treatment of cranial arteritis is

- a. 5-10 mg/day
- b. 10-20 mg/day
- c. 20-40 mg/day
- d. 40-60 mg/day.

[d]

100. White coat hypertension is

- a. Persistent elevated blood pressure reading in a clinical setting but nonelevated blood pressure reading in ambulatory setting.
- b. Nonelevated blood pressure reading in a clinical setting but persistent elevated blood pressure reading in ambulatory setting.
- c. Persistent elevated blood pressure reading in a clinical and ambulatory setting.
- d. Persistent elevated blood pressure reading in ambulatory setting.

[a]