## **MIZORAM PUBLIC SERVICE COMMISSION**

## TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF GRADE-III OF MIZORAM HEALTH SERVICE (DENTAL SURGEON SUB-CADRE) UNDER HEALTH & FAMILY WELFARE DEPARTMENT, GOVERNMENT OF MIZORAM. OCTOBER, 2022

## TECHNICAL SUBJECT PAPER - I

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Time Allowed: 2 hours		Full Marks : 200
All questions carry equal Attempt all que		
1. Numbness of lip seen with no previous dental treats	ment.	
(a) Meta static Carcinoma	(b)	Central nervous system lesion
(c) Osteomyelitis	(d)	Infection
2. Which of the following is the most common site fo	r the	occurrence of a basal cell carcinoma?
(a) Buccal mucosa	(b)	Hard palate
(c) Skin of the lower lip	(d)	Dorsum of tongue
3. Which of the following conditions is not considered	l as pi	remalignant?
(a) Syphilitic glossitis	(b)	Leukoedema
(c) Erosive lichen planus	(d)	Leukoplakia
4. 'Warty' or 'cauliflower' like growth is		
(a) Torus	(b)	Fibroma
(c) Lipoma	(d)	Papilloma
5. On stretching the cheek the lesion disappears in		
(a) Leukoplakia	(b)	Focal hyperkeratosis
(c) Leukoedema	(d)	Typhoid
6. The most common precancerous lesion for oral mal	ignaı	ncy is
(a) Chronic hypertropic candidiasis	(b)	Leukoplakia
(c) Dental ulcers	(d)	Atropic glossitis
7. During oral examination of a 57 years old man, a la noted. Some 'Red spots' are also seen in the patch	_	<u>.</u>
(a) Pipe smoker	(b)	Cigar smoker
(c) Snuff chewer	(d)	Tobacco chewer
8. Oral hairy leukoplakia is seen in which of the follow	ing c	conditions?
(a) Hepatitis B	(b)	Smoker's keratitis
(c) Candidiasis	(d)	AIDS
9. The oral mucosa becomes rigid, blanched and opaq	ue in	which of the following conditions?
(a) Submucous fibrosis	(b)	Lupus erythematosus
(c) Pemphigus vulgaris	(d)	Ehlers-Dantos syndrome
10. Leukoplakia with the worst prognosis is seen on th	e	

(b) Buccal mucosa

(d) Floor of mouth

(a) Dorsum of tongue

(c) Palate

11.	Which of the following is not a feature of torus mandibularis?				
	(a) Common in mongoloids.				
	(b) Present on the lingual surface of the mandible below the mylohyoid line.				
	` ′	Usually bilateral.			
	` '	May or may not associated with torus palatin	us.		
12.		nost common bone cancer is			
	` '	Osteosarcoma	` /	Metastatic bone cancer	
	(c)	Multiple myeloma	(d)	Squamous cell carcinoma	
13.	Whic	ch of the following is benign in nature?			
	(a)	Lymphoma		Lymphangioma	
	(c)	Melanoma	(d)	Leukaemia	
14.	Com	monest site of carcinoma of tongue			
	(a)	Posterior one third	(b)	Ventral surface	
	(c)	Tip of tongue	(d)	Lateral margin	
<b>15.</b>	Defin	nitive diagnosis of oral cancer is made by			
	(a)	Complete radiographic survey	(b)	Biopsy	
	(c)	Exfoliative cytology	(d)	Pantograph	
16.	Whic	ch of the following is an oral precancer?			
	(a)	Oral hairy leukoplakia	(b)	White spongy naevus	
	(c)	Leukemia	(d)	Speckled leukoplakia	
17.	Loca	lization of an object is done by			
	(a)	Paralleling technique	(b)	Bisecting angle technique	
	(c)	Tube shift technique	(d)	Occlusal technique	
18.	Qual	ity of X-ray beam is governed by			
	~	mAs	(b)	Filament current	
	(c)	KVp	(d)	Length of the X-ray tube	
19.	Redu	icing the size of X-ray beam is achieved by			
		Filtration	(b)	Photo electric effect	
	(c)	Bezold-brucke effect	(d)	Collimation	
20.	1st ste	ep in developing film is			
		Stirring the solution	(b)	Washing of film	
	` '	Dip in developer		Dip in fixer	
21.	Yello	wish-brown staining of the IOPA dental X-ray	` ′	-	
		Drying away of the developer solution		Increased exposure time	
		Increased temperature of developer		Immersion in fixer without washing	
22.		films are insensitive to which light?	( )	5	
	•	Yellow and red	(b)	Red	
	` ′	White	(d)	Blue and green	
23	` /	astest dental film currently available has the sp	` '	•	
25.		"D" speed		"C" speed	
	` '	"F" speed	` ′	"E" speed	
2.4	` ′	full mouth examination; how many IOPA's a	` ′	1	
<b>⊿ 7</b> •	(a)	•	(b)	•	
	(c)		(d)		
	\ /		( )		

<b>25.</b>	In a patient having dense bones, penetration is best achieved by					
	(a)	Increase in mA	(b)	Increase in KVp		
	(c)	Increased exposure time	(d)	Increased developing time		
26.	6. X- rays are a type of					
	(a)	Atomic radiation	(b)	Ultrasonic radiation		
	(c)	Electromagnetic radiation	(d)	Particulate radiation		
27.	In the	Bisecting technique, the film is placed				
		Parallel to the tooth	(b)	As close as possible		
	(c)	Parallel to the bisector	(d)	Perpendicular to the bisector		
28.	The	operator should stand at a distance of	while	taking-rays?		
		6 feet		8 feet		
	` /	10 feet	` /	3 meters		
29	` /	ch of the following is best method for radiation	` /			
4).		Standing behind a lead barrier	prou	ection of the operator:		
		Wearing of lead apron				
		Following the "position and distance" rule				
		Standing 6-feet away from the Xray tube duri	ng ex	posure		
30.	` ′	ch of the following confirmed values meet the d	_	•		
		Fasting blood glucose ≥ 140 mg/dl	-			
		2 hour post prandial glucose $\geq$ to 126 mg/dl		_		
31		vitamin essential for blood clotting is	( )			
J1.		Vitamin A	(h)	Vitamin B		
	` /	Vitamin K	` /	Vitamin C		
22	` /		` /			
32.		naemoglobin pigment delivers oxygen to the _ Bones		of the body. Tissues		
	` /	Red blood cells	(b)	Nails		
22	` '		` ′			
<i>33.</i>		sample of blood, doctors look for which of the		<del>-</del>		
	` '	Interferons Liver on Types 2	` /	Calcium White blood calls		
2.4	` /	Liver enzymes	` /	White blood cells		
34.		erence between systolic BP and diastolic BP is				
	` '	Pulse deficit	` /	Pulse pressure		
	` '	Mean arterial pressure	` ′	Arterial pressure		
35.		ood pressure cuff is too narrow or wrapped too		-		
		Difficult to hear because sound will be muffled		-		
	` ′	Falsely high	` /	Normal bp		
36.		most important cell which contributes to the se	-	_		
		Lymphocyte	` /	Neutrophil		
	(c)	Mast cell	(d)	Plasma cell		
37.	Whic	h of the following is the common factor for the init				
	` ′	Bacterial plaque	` /	Lactic acid		
	(c)	Calculus	(d)	No common factor		
38.	Sub-	gingival scaling alters the microflora of periodo	ontal	pocket		
	(a)	Never gets altered	(b)	Aerobes only		
	(c)	Gets altered	(d)	Anaerobes only		

39.	Seve	re alveolar bone loss, as observed in juvenile p	eriod	lontitis is associated with:-
	( )	Cyclic neutropenia		
		Lysis of neutrophils		
	` '	Increased phagocytosis		
		Neutrophil chemotactic defects or impaired no		phil chemotaxis
40.	_	ringival crevicular fluid is increased in all excep		
	` /	Gingivitis	` /	Smoking
	(c)	Periodontal pocket	(d)	Trauma from occlusion
41.	-	orimary etiologic factor in the development of t		
	( )	Calculus	` ′	Plaque
	(c)	Cemental caries	(d)	Root infection
<b>42.</b>	In pe	riodontal disease, ground substance is dissolv	ed by	7
	(a)	Hyaluronidase	` /	Coagulase
	(c)	Phophorylase	(d)	Acid phosphatase
43.	Perio	dontitis is caused by		
	(a)	Malnutrition	(b)	Supragingival plaque
	(c)	Bio-film	(d)	Faulty tooth brushing
44.	Earlie	est clinical sign of gingivitis is		
	(a)	Bleeding on probing	(b)	Change in colour
	(c)	Change in contour	(d)	Change in size
45.	Clinic	cal signs of gingivitis appear in		
	(a)	Initial gingivitis	(b)	Early gingivitis
	(c)	Late gingivitis	(d)	Advanced gingivitis
46.	Ging	ival abscess involves		
	_	Marginal	(b)	Attached
	` '	Interdental	(d)	Marginal and interdental
47.	Whic	h of the following drugs is associated with ging	rival l	hyperplasia?
		Dihydropyridines		Tetracyclines
	` /	Cyclosporin	(d)	Metronidazole
48	` /	itin hyperplasia is treated with	( )	
40.		Gingivectomy	(b)	Gingivoplasty
	` '	Apically repositioned flap	(d)	Curettage
10	` ′	ival enlargement with leathery consistency with	` ′	<b>C</b>
42.		Idiopathic gingival enlargement		Drug induced gingival enlargement
	` '	Pregnancy gingival enlargement		Puberty gingival enlargement
<b>5</b> 0	` ′		(u)	i docity gingival chiargement
50.		thwash used in ANUG is	(1-)	Named seling
	( )	Chlorhexidine	` /	Normal saline
	` '	Hydrogen peroxide	(d)	Stannous fluoride
51.		common cause of chronic inflammation of the		-
	` '	Acute necrotising gingivostomatitis		Acute necrotising gingivitis
	` '	Apthous stomatitis	` /	Vitamin deficiency
52.		is the difference between gingivitis and period		
	` /	Gingival sulcus		Periodontal pocket
	(c)	Loss of epithelial attachment	(d)	Mobility of tooth

53.	(a) (b) (c)	reatment for acute periodontal abscess is Incision and drainage followed by flap surger The drainage of abscess through incision only Incision should not be given through ultrasoni Incision should be given only external level		er the symptoms subside
54	Puln	chamber and root canals in deciduous teeth		
J <b>T.</b>	-	Wide and deep	(b)	Shallow and narrow
	` /	Wide and narrow	(d)	Shallow and wide
55.	` '	oulp of first primary molar contains	( )	
	-	Four pulp horn and three root canal	(b)	Three pulp horn and three root canal
		Two pulp horn and two root canal	(d)	Two pulp horn and three root canal
56.	` ´	th of the premolars is usually the smallest	` /	
		Maxillary first	(b)	Mandibular first
	` /	Maxillary second	(d)	Mandibular second
57.	` ´	hortest root on a maxillary first molar is	` /	
		Mesio-buccal	(b)	Disto-buccal
	\ /	Lingual	` /	All are of equal length
58.		omparison to maxillary central incisor, maxilla	` /	1 0
		More	•	Less
	` /	Same	( )	Different on different tooth
59	` '	hich of the following permanent teeth is it most diffi	` /	
57.		Maxillary central incisor		Mandibular central incisor
		Mandibular lateral incisor	(d)	Mandibular second premolar
60	` '	n with most variable occlusal anatomy	(u)	Mandrodiar second promotar
00.		Maxillary third molar	(h)	Mandibular third molar
	` '	Maxillary second premolar	( )	Mandibular second premolar
61	. Which cusp is poorly developed in a permanent maxillary second molar			
01.		DB		DL
	` ′	MB	` /	ML
62	` ′	ical cross section of maxillary first premolar is	(4)	.,,,
02.		Dumbbell	(b)	Kidney shape
	` '	Elliptical	` ′	Oval
63	` '	naxillary tooth exhibiting the greatest variation	` /	
05.		Central incisor		First premolar
	` /	Third molar	(d)	-
61	` ′		(u)	Second moral
04.		age of length of maxillary cuspid is 26mm	(b)	33mm
	` ′	21mm	(d)	18mm
65	` ′		` /	
05.		on formation of all permanent teeth except third Birth to 8 years		Birth to 12 years
	` '	Birth to 6 years		6 years to 12 years
"		·	` ′	·
00.		wing eruption, the root of the maxillary central incis		
		7 years 9 years	(b)	8 years 10 years
	(0)	) years	(u)	10 years

<b>67.</b>	Cusp	of carabelli is present on		
	(a)	Permanent maxillary 1st molar	(b)	Permanent mandibular 1st molar
	(c)	Permanent maxillary 2 <sup>nd</sup> molar	(d)	Permanent mandibular 2 <sup>nd</sup> molar
68.	Whic	ch of the following grooves separate cusp ridge	es froi	m marginal ridges?
	(a)	Supplemental	(b)	Developmental
	(c)	Mesio marginal developmental	(d)	Marginal ridge developmental
69.	Mini	mum number of lobes required for tooth forma	tion?	
	(a)	5 lobes	(b)	2 lobes
	(c)	3 lobes	(d)	4 lobes
70.		ridge that descends from the cuspal tip towa llary molar is	rds tl	ne central part of the occlusal surface in a
	(a)	Triangular ridge	(b)	Marginal ridge
	(c)	Transverse ridge	(d)	Oblique ridge
71.		velopmental disturbance in the enamel of mand h of the following ages?	dibul	ar first molar crown usually occurs between
	(a)	8 months prenatal to one year postnatal	(b)	Birth to 3 years postnatal
	(c)	3 years postnatal to 5 years postnatal	(d)	6 years postnatal to 8 years postnatal
72.	A pat	tient with maxillofacial injuries should be carrie	ed in	
	(a)	Supine position	(b)	Lateral position
	(c)	Prone position	(d)	Sitting position
73.	A pat	tient with maxillofacial injuries should be carri	ed in	a supine position only when there is
	(a)	Spinal, cervical injury	(b)	Bilateral parasymphysis fracture
	(c)	Unconsciousness	(d)	Excessive mobility of fractured maxilla
74.	Imme	ediate management of nasal bleed in facial inju	ries is	3
	(a)	Reduction of nasal bones manually	(b)	Paraffin gauze packing
	(c)	Positioning of patient in supine position	(d)	Positioning the patient in prone position
<i>75</i> .	Glass	gow coma scale is used		
	(a)	To ascertain motor responsiveness	(b)	Verbal responsiveness
	(c)	Eye response	(d)	To ascertain level of consciousness
<b>76.</b>	Then	method commonly used to differentiate nasal dis	charg	e from CSF in fracture of middle third of face
	(a)	Examining level of glucose	\ /	Examining level of chlorides
	(c)	Drying the discharge on a piece of cloth	(d)	Examining the level of protein
77.	Placi	ng a nasal pack during nasal bleeding and CS	F leal	k carry the danger of
	(a)	Fracture of ethmoidal plates	(b)	Redirecting the CSF to oropharynx
	(c)	Meningitis	(d)	Redirecting CSF to orbit
78.	_	tient with maxillofacial injury complains of regue, he may have	urgita	tion, absence of gag reflex and weakening of
	(a)	Laryngeal trauma	(b)	Injury to middle cranial fossa
	(c)	These symptoms are due to acute pain	(d)	Paralysis of IX N
<b>79.</b>	The	crystalloid which should be given first after max	killofa	acial trauma
	(a)	Normal saline	(b)	5% dextrose
	(c)	Ringer's lactate	(d)	10% dextrose

20	Hyno	ovolemic shock develops after loss of		
00.		10% blood	(b)	20% blood
	` '	30% blood	` /	40% blood
81		re of primary suturing occurs in facial wounds	` /	
01.		Fine silk has not been used		Catgut has been used
	` /	Dead space develops	. ,	Continuous suturing is done
01	` ′	-	` ′	_
04.	-	opia would result if fracture line around zygom Below the Whitnall's tubercle	auco	-nontai suture passes
	( )	Above the Whitnall's tubercle		
	` ′	Through zygomatico-frontal suture		
		Tearing the periosteum of orbital surface of z	vaon	natic hone
02	` ′	Fort I fracture infraorbital rim is	ygon	latic bone
83.			(1.)	National a
		Bilaterally involved	` /	Not involved
	` '	Involved medially	` ′	May or may not be involved
84.	_	alpation there is a step at bilateral infraorbital	_	ins and mobility of midface is detectable at
		bridge a possible diagnosis would be fracture		La Fant II
	` '	Le Fort I	` /	Le Fort II
0.5	` '	Le Fort III	` /	Le Fort III and II
85.	-	tient presents with open bite on left side and w	ith te	nderness at nasal bones, it could be fracture
		Unilateral Le Fort I on right side	. 1	
	` ′	Subcondylar on left side and zygoma on right	side	
		Le Fort II on right side	.+ aid	
0.6	` '	Zygoma on right side and subcondylar on right		
86.	-	tient with bilateral subcondylar fracture presen		
	` '	Anterior open bite	` /	Inability ot open mouth
	` ′	On opening mandible moves forward	` ,	Closed bite
87.		erm vertical in 'vertical favourable' fractures c	onno	otes
		The fracture line running in vertical direction		
		The displacement of fracture is in vertical plan		41.
	(c)	The direction of view of the observer is in ver	tical	direction
		Fracture can be reduced vertically		
88.		radiograph for fractures of middle third of face		
	` /	Submentovertex	( )	Reverse Towne's view
	( )	OPG		Occipitomental view
89.		e doing circum-mandibular wiring there are cha		•
	` '	Facial nerve	. ,	Facial artery& vein
	(c)	Epiglottis	(d)	Lingual nerve
90.		cture angle result following extraction of mandi	bular	impacted 3 <sup>rd</sup> molar the immediate treatment
	shou			
		IMF only		
		Bone plating under GA	n	
		Transosseous wiring at the lower border and		
	(d)	Superior border trans-osseous wiring and IM	lF	

91.	Whil	e removing mandibular 3 <sup>rd</sup> molar which part of	fbon	e should be used as a fulcrum
	(a)	Lingual cortical bone	(b)	Mesial inter-radicular bone
	(c)	Buccal alveolar bone	(d)	Distal surface of adjacent crown
92.	ʻWhi	te line' described by George Winter is a line di	rawn	
		Along occlusal surfaces of erupted mandibular		
	(b)	From crest of bone lying distal to third molar a 2 <sup>nd</sup> molar	to cre	est of the interdental septum between 1st and
	(c)	From perpendicular to 'amber line'		
	(d)	From perpendicular to 'red line'		
93.	If in a	a mesioangular mandibular impaction there is	ʻapi	cal notch' visible on a radiograph the tooth
	(a)	Not be removed	(b)	Be removed by lingual split technique
	(c)	Be removed by splitting the tooth	(d)	Remove only crown and left root portion behind
94.	Later	ral trepanation technique of Bowdler Henry is i	ndic	ated for
	(a)	Extraction of impacted canines		
	(b)	Removal of impacted premolars		
	(c)	Removal of partially formed unerupted third r	nolaı	rs .
	(d)	Treating dentigerous cysts with enclosed third	lmol	ars
95.	The	chisel should be used with		
	(a)	Bevel towards the bone which is to be saved		
	` ′	Bevel towards the bone which is to be sacrifi	ced	
		Bevel direction is not important		
	(d)	Flat surface parallel to direction of grains of b	one	
96.		e making vertical incision for flap for mandibul		1
		Buccal pad of fat		Branches of lingual nerve
	(c)	Branches of facial nerve	(d)	Branches of facial artery/vein
97.	Dry s	socket commonly occurs after		
	(a)	24 hours	` '	2 days
	(c)	3-4 days	(d)	10-15 days
98.		complication of using air rotor at 30,000 Rpm	for ir	mpacted molars is
	(a)	Necrosis of bone	(b)	Dehiscence
	(c)	Tissue laceration	(d)	Emphysema
99.	The r	most important suture while closing Ward's inc	ision	for impacted mandibular third molar is
	(a)			
	(b)	Suturing of retromolar limb		
	(c)	Suture of area immediately distal to 2 <sup>nd</sup> molar	•	
	(d)	Use of catgut suture material		
100.	In cas	se of extraction of maxillary molars if maxillar	y tub	erosity also fractures, the fractured bone:
	(a)			
	(b)	Should be replaced and allowed to heal by se		-
	(c)	Should be replaced and retained by primary s	uturi	ng of soft tissues

\* \* \* \* \* \* \*

(d) Should be fixed by transosseous wiring or bone plating