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TBC: AKG-91117-MOD

TEST BOOKLET SERIES



Time Allowed : 2 Hours!

[Maximum Marks : 100

INSTRUCTIONS

- 1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE
 MAY BE IN THE APPROPRIATE PLACE.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- 4. This Test Booklet contains 100 items (questions). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer Sheet provided. No erasing/correction fluid is allowed.
- All items carry equal marks.
- Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
- After you have completed filling in all your responses on the Answer Sheet and the examination
 has concluded, you should hand over to the Invigilator only the Answer Sheet. You are
 permitted to take away with you the Test Booklet.
- Sheets for rough work are appended in the Test Booklet at the end.
- 10. Penalty for wrong answers :

THERE WILL BE PENALTY (NEGATIVE MARKING) FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.

- (i) There are four alternatives for the answers to every question. For each question for which a wrong answer has been given by the candidate, one fourth (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answer happen to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank i.e. no answer is given by the candidate, there will be no penalty for that question.
- Use and carrying of Mobile Phone and Electronic Gadget is prohibited in Examination Hall.

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- During fertilization in humans, there is:
 - (A) Division of sex chromosomes
 - (B) Formation of cells with 92 chromosomes
 - (C) Division of gametes
 - (D) Formation of a zygote
- 2. Down syndrome is known for :
 - (A) Trisomy of chromosome 20
 - (B) Production of monosomy situation
 - (C) Facial enlargement and lengthened palate
 - (D) Fissured tongue and delayed tooth eruption

- The fetal stage, in comparison to the embryonic stage, is noted for :
 - (A) Differentiation of major external structures
 - (B) Induction of major internal
 - (C) Growth and maturation
 - (D) Extreme vulnerability to congenital defects
- 4. The last fontanelle to close is :
 - (A) Posterior
 - (B) Anterior
 - (C) Sphenoid
 - (D) Mastoid

The external nasal nerve is a The metopic suture closes by : 8. 5. branch of: (A) 18 months (A) Infraorbital nerve (B) 6 years (B) Facial nerve (C) 2.5 years (C) Anterior ethmoid nerve (D) 6 months (D) Supratrochlear nerve Which of the following is not derived 6. Sensory supply to the cornea is 9. from deep cervical fascia? by: (A) Parotidomasseteric fascia (A) Infratrochlear nerve (B) Temporoparietal fascia (B) Long ciliary nerve (C) Carotid sheath (C) Supratrochlear nerve (D) Investing layer (D) Lacrimal nerve The parotid gland is divided into 7. Which of the following structures is a superficial and a deep lobe by derived from the second pharyngeal the : arch? (A) Retromandibular vein (A) Anterior belly of digastric (B) External carotid artery (B) Mylohyoid (C) Auricular muscles (C) Facial nerve (D) Anterior ligament of maleus (D) Origin of the parotid duct P.T.O. TBC: AKG-91117-MOD—A

- 11. The cricothyroid muscle is innervated by :
 - (A) Superior laryngeal nerve
 - (B) Internal laryngeal nerve
 - (C) Recurrent laryngeal nerve
 - (D) Ansa cervicalis
- 12. Fluid replacement required in a burn patient can be estimated by the :
 - (A) Penlington formula
 - (B) Parkland formula
 - (C) Henderson Hasselbalch equation
 - (D) Holliday Segar formula

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- 13. Which of the following is a disorder of platelet function ?
 - (A) Thrombocytopenic purpura
 - (B) Von Willebrand disease
 - (C) Glanzmann thrombasthenia
 - (D) Aplastic anemia
- 14. Which of the following is not a component of Virchow's triad?
 - (A) Endothelial injury
 - (B) Stasis
 - (C) Hypercoagulability
 - (D) Vasoconstriction
- 15. Pneumothorax results in :
 - (A) Cardiogenic shock
 - (B) Neurogenic shock
 - (C) Haemorrhagic shock
 - (D) Obstructive shock

- 16. Loperamide is:
 - (A) An antihypertensive
 - (B) An opioid
 - (C) A prokinetic
 - (D) An antimicrobial
- 17. Which of the following has no effect on blood glucose levels in the body?
 - (A) Epinephrine
 - (B) Glucagon
 - (C) Aldosterone
 - (D) Insulin
- 18. Which of the following best describes the mechanism of action of Ondansetron?
 - (A) Histamine receptor antagonism
 - (B) Proton pump inhibition
 - (C) Dopamine receptor antagonism
 - (D) 5-HT receptor modulation

- 19. The measure of the apparent space in the body available to contain a drug is called :
 - (A) Clearance
 - (B) Volume of distribution
 - (C) Standard drug dose
 - (D) Bioavailability
- 20. Which of the following amino acids is not essential but is formed from an essential amino acid?
 - (A) Arginine
 - (B) Cystine
 - (C) Methionine
 - (D) Cysteine

21.	Heme is synthesized from ;						
	(A)	Lysine					
	(B)	Cysteine					
	(C)	Glycine					
	(D)	Glutamine					
22.	The	first identified	intracellular				
	mess	senger is :					
	(A)	Calcium					
	(B)	cAMP					
	(C)	cGMP	10				
	(D)	Phosphatidylinosi	tides				
23.	Which of the following is a						
	dimo	rphic fungus ?	7.				
	(A) (Candida					
	(B) I	Histoplasma	9				
	(C) A	Aspergillus					
	(D) I	Rhizopus					
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- 24. Lowenstein Jensen medium is used to culture :
 - (A) Acid fast bacilli
 - (B) Fungi
 - (C) E.coli
 - (D) Corynebacterium
- Fothergill's disease is associated with:
 - (A) Facial nerve
 - (B) Trigeminal nerve
 - (C) Superficial temporal artery
 - (D) Submandibular lymph nodes
- 26. Vasoconstriction is caused by:
 - (A) Alpha 1 adrenergic stimulation
 - (B) Beta 1 adrenergic stimulation
 - (C) Alpha 2 adrenergic stimulation
 - (D) Beta 2 adrenergic stimulation

- Which of the following may be associated with hepatocellular carcinoma? (A) Hepatitis E (B) Hepatitis C (C) Hepatitis A (D) Hepatitis D Risk of transmission of HIV via needle prick is .: (A) 30% (B) 3% (C) 0.3%
- 29. The passage of intact cells through the walls of capillaries is called :
 - (A) Diaphoresis
 - (B) Diapedesis
 - (C) Pavementing
 - (D) Exudation
- 30. Which is not a feature of malignancy?
 - (A) Increased mitotic figures
 - (B) Hyperchromatism
 - (C) High grade differentiation
 - (D) Increased nuclear cytoplasmic ratio

(D) 13%

- 31. The best way to store an alginate impression is:
 - (A) Storing under a damp paper towel
 - (B) Storing under vacuum
 - (C) Storing in a bath of water at a temperature of 22°C
 - (D) The impression cannot be stored
- 32. The setting time of gypsum is accelerated by :
 - (A) 2% aqueous K2SO4
 - (B) Increased W/P ratio
 - (C) Addition of sodium citrate
 - (D) Slower rate of spatulation

- 33. According to ADA specification No. 1, which of the following is not one of the properties required to assess the quality of dental amalgam?
 - (A) Compressive strength
 - (B) Creep
 - (C) Dimensional change
 - (D) Corrosion resistance
- 34. According to ADA specification

 No. 1, maximum allowable creep for

 dental amalgam is:
 - (A) 2%
 - (B) 0.25%
 - (C) 1%
 - (D) 7%

		r.	
35.	Which of these materials does not	37.	Water of reaction for Type II plaster
			is:
	form a true chemical bond with		
		9	(A) 45 ml
	tooth structure ?		
			(B) 25 ml
	(A) Silicate cement		(C) 18.6 ml
	(B) Zinc polycarboxylate		(D) 35 ml
	(C) ZOE	38.	Minimata disease is associated with:
	(C) ZOL		
	E) E)		(A) Lead
	(D) GIC		(B) Copper
	8		(b) Copper
36.	Provisional cementation in FDP	22	(C) Mercury
	treatment is done using :	107	(D) Bismuth
		35	
	(A) Zinc phosphate cement	39.	pH of APF used for fluoridation is:
			(A) 2
	(B) ZOE cement		
		- 31	(B) 1.23
	(C) GIC		
			(C) 3
	The same of the sa		
	(D) Polycarboxylate cement		(D) 1
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- 40. While comparing oral keratinised and non-keratinized stratified squamous epithelium, which of the following is correct?
 - (A) In both types of epithelium, the majority of keratinocyte mitotic divisions occur in the upper spinous cell layer
 - (B) Keratohyaline granules are abundant in both keratinised and non-keratinized epithelium
 - (C) Membrane coating granules are present in both keratinised and non-keratinized epithelium
 - (D) Cytokeratin filaments are arranged in bundles in nonkeratinized epithelium but are dispersed in keratinized epithelium

41. Submucosa is found most commonly in which type of oral mucosa?

- (A) Lining mucosa
- (B) Hard palate mucosa
- (C) Specialised mucosa
- (D) Gingiva
- 42. Sequence of ducts leading from the secretory end piece to the oral cavity is:
 - (A) Striated, intercalated, excretory
 - (B) Excretory, striated, intercalated
 - (C) Intercalated, striated, excretory
 - (D) Intercalated, excretory, striated

- 43. The articular disk :
 - (A) is made of dense, fibrous tissue
 - (B) contains no elastic fibres
 - (C) does not contain blood vessels
 at its periphery
 - (D) synovial cells cover its surface
- 44. The bell stage of tooth development:
 - (A) begins when the root of the tooth begins to develop
 - (B) is the first histologically visible stage of development
 - (C) is the stage when cells begin to differentiate
 - (D) is the stage following crown stage

- 45. In contrast to a K-type file, the
 - (A) Greater stress concentration on bending
 - (B) More negative rake angle
 - (C) Less cutting efficiency
 - (D) Cutting only with a push stroke
 - for normal blood flow to return to
 the coronal pulp of a traumatized
 fully formed tooth.
 - (A) 15 days
 - (B) 9 months
 - (C) 12 months
 - (D) 30 days

- 47. The effects of desiccation on dental tissue are :
 - (A) Pulpal necrosis
 - (B) Aspiration of odontoblasts
 - (C) No effects
 - (D) Demineralisation of enamel
- 48. Obturation of a canal should not be done:
 - (A) In the first visit
 - (B) If the canal has been previously
 endodontically treated
 - (C) If the canal is not dry
 - (D) If accessory canals are present

- 49. Horizontal loss of supporting tissues exceeding 1/3 of the width of the tooth, but not encompassing the total width of the furcation area is:
 - (A) Degree 1
 - (B) Degree 2
 - (C) Degree 3
 - (D) Degree 4
- tip of the probe is forced through the supraalveolar connective tissue to make contact with the bone and the distance from the cemento-enamel junction to the bone level is assessed in mm. This process is called:
 - (A) Probing
 - (B) Sounding
 - (C) Guided bone regeneration
 - (D) Sensing

- 51. The gingivectomy procedure was originally described by :
 - (A) Grant and Robinseck
 - (B) Goldman
 - (C) Lindhe
 - (D) Kirkland
- 52. Upon application of heavy pressure forces against the tooth, the PDL fluid is squeezed out, tissues compressed, and immediate pain produced in a time period of:
 - (A) <1 min
 - (B) 3-5 min
 - (C) 1-2 min
 - (D) 5-10 min

- 53. According to the envelope of discrepancy, surgical treatment can correct :
 - (A) A horizontal mandibular excess of 25 mm
 - (B) A vertical maxillary deficit of 15 mm
 - (C) A horizontal mandibular deficit of 20 mm
 - (D) A horizontal maxillary deficit of 15 mm
- 54. Fixed orthodontic retention is not indicated in :
 - (A) Maintenance of lower incisor position during late growth
 - (B) Diastema maintenance
 - (C) Maintenance of a pontic or implant space
 - (D) Maxillary arch expansion

- 55. A cephalometric tracing representing the changes that are expected (desired) during treatment is called:
 - (A) Prediction tracing
 - (B) Visual Treatment Objective
 - (C) Provisional tracing
 - (D) Intermediate tracing
- 56. During the first stage of orthodontic treatment, the wires used are :
 - (A) Ni-Ti
 - (B) Stainless Steel
 - (C) TMA
 - (D) Copper wires

- 57. Primate spaces are present between:
 - (A) Maxillary primary lateral
 - (B) Maxillary primary canine and first molar
 - (C) Mandibular primary lateral incisor and canine
 - (D) Between maxillary primary central incisors
- 58. Flush terminal plane (according to Baume's classification) usually eventually becomes:
 - (A) Molar Class I
 - (B) Molar Class II
 - (C) Molar Class III
 - (D) Either Class II or Class III

- 59. According to the American Academy
 of Pediatric Dentistry (AAPD), in
 children younger than
 of age, any sign of smooth-surface
 caries is indicative of severe early
 childhood caries.
 - (A) 2 years
 - (B) 3 years
 - (C) 5 years
 - (D) 7 years
- 60. Between the age of 4 years and the eruption of first permanent molars, the sagittal dimension of the dental arches:
 - (A) Increases by 10%
 - (B) Increases by 10 mm
 - (C) Remains unchanged
 - (D) Increases

- 61. A technique for restoring young permanent teeth that require only minimal tooth preparation for caries removal but also have adjacent susceptible fissures:
 - (A) Pit and fissure sealing
 - (B) Preventive resin restoration
 - (C) Minimal intervention dentistry
 - (D) Odontoplasty
- 62. Ante's law is related to :
 - (A) Bone remodelling in response to forces applied
 - (B) Effect of root surface area on force distribution
 - (C) Angulation of tooth roots for planning a prosthesis
 - (D) Retention of a removable dental prosthesis

- 63. Which of the following is not a principle of flap design?
 - (A) The mucoperiosteum should be incised in a single stroke
 - (B) The base of the flap should be ≥ apex of the flap
 - (C) The incision should be made while placing the blade parallel to the epithelial surface
 - (D) The incision should be placed parallel to the natural skin creases
- 64. Ideal view to image the fractured zygomatic arch is :
 - (A) Towne's view
 - (B) Water's view
 - (C) Orthopantomogram
 - (D) Submentovertex view

- 65. Most common organism involved in the pathogenesis of alveolar osteitis:
 - (A) Staphylococcus aureus
 - (B) Treponema denticola
 - (C) Actinomycetes actinomycetemcomitans
 - (D) E.coli
- 66. Primary rotation is used to extract:
 - (A) Maxillary central incisors
 - (B) Mandibular central incisors
 - (C) Maxillary second premolar
 - (D) Mandibular canine
- 67. The maximum dose for lignocaine without adrenaline is:
 - (A) 7 mg/kg
 - (B) 4.4 mg/kg
 - (C) 10 mg/kg
 - (D) 600 mg

- 68. Hilton's method is used for :
 - (A) Sequestrectomy
 - (B) Oroantral fistula closure
 - (C) Incision and drainage of abscess
 - (D) Extraction of multiple teeth
- 69. Which of the following is not an acceptable treatment modality for TMJ ankylosis?
 - (A) Gap arthroplasty
 - (B) Coronoidectomy
 - (C) Interpositional arthroplasty
 - (D) Lateral arthroplasty
- 70. Which of the following best describes the Partsch I operation ?
 - (A) Cyst enucleation
 - (B) Marsupialisation
 - (C) Marsupialisation followed by enucleation
 - (D) Enucleation followed by chemical cauterisation

- 71. Which of the following is not an indication for ORIF?
 - (A) Inability to achieve occlusion with closed reduction
 - (B) Infected comminuted mandibular fracture
 - (C) Mandibular angle fractures
 - (D) Medical comorbidity that precludes prolonged immobilisation
- 72. Wavelength for CO2 laser is :
 - (A) 850 nm
 - (B) 10600 nm
 - (C) 783 nm
 - (D) 990 nm

- 73. Which of the following is the most reproducible hinge position of the mandible ?
 - (A) Centric occlusion
 - (B) Centric relation
 - (C) Maximum intercuspation
 - (D) Mandibular rest position
- 74. During the first year after tooth extraction, the residual ridge resorption in the midsagittal plane is:
 - (A) 2-3 mm for maxilla
 - (B) 2-3 mm for mandible
 - (C) 4-5 mm for maxilla
 - (D) >10 mm for mandible

- 75. Order V of Atwood's classification of residual ridge resorption is :
 - (A) Knife-edged ridge
 - (B) Depressed ridge
 - (C) Low, well-rounded ridge
 - (D) High, well-rounded ridge
- 76. Jiffy dentures are :
 - (A) Conventional immediate dentures
 - (B) Interim immediate dentures
 - (C) Implant supported dentures
 - (D) Flexible dentures

- 77. Which of the following is not a component of an extracoronal retainer?
 - (A) Reciprocal clasp
 - (B) Rest
 - (C) Proximal plate
 - (D) Abutment
- 78. Which of the following conditions arises due to cell-mediated immune injury ?
 - (A) White sponge nevus
 - (B) Oral lichen planus
 - (C) Erythroplakia
 - (D) Verrucous hyperplasia

- 79. Ghost images are seen in :
 - (A) Histopathology of ghost cell tumours
 - (B) Sialography
 - (C) Orthopantomogram
 - (D) Underexposed radiographs
- 80. Floating teeth are not seen radiographically in :
 - (A) Cherubism
 - (B) Mandibular intraosseous carcinoma
 - (C) Chediak Higashi syndrome
 - (D) Burkitt's lymphoma

- 81. Who is the author of Antiquities of Chamba State, Vol I, 1911 ?
 - (A) J. Ph. Vogel
 - (B) William Moorcraft
 - (C) James Tod
 - (D) G.T. Vigne
- 82. Who founded the Nurpur princely state ?
 - (A) Jagat Pal
 - (B) Jagan Pal
 - (C) Jeth Pal
 - (D) Jus Pal
- 83. Which raja of Sirmaur princely state shifted the capital of his state from Rajban to Kalsi?
 - (A) Udit Parkash
 - (B) Suraj Parkash
 - (C) Sumer Parkash
 - (D) Rattan Parkash
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- 84. Which river's tributary is Nogli stream?
 - (A) Yamuna
 - (B) Beas
 - (C) Sutlej
 - (D) Tons
- 85. In which district of H.P. is Mukkila glacier ?
 - (A) Lahaul-Spiti
 - (B) Chamba
 - (C) Kullu
 - (D) Shimla
- 86. Given below are the names of some temples and the names of places where they are located. Find the mismatch?
 - (A) Balasundri temple Trilokpur(Sirmaur)
 - (B) Bhimakali temple Sarahan (Rampur)
 - (C) Chintpurni temple Badsar (Hamirpur)
 - (D) Durga temple Kiari (Kotkhai)

- 87. Who was the first woman to represent H.P. in the Rajya Sabha?
 - (A) Mohinder Kaur
 - (B) Usha Malhotra
 - (C) Satyawati Dang
 - (D) Leela Devi Mahajan
- 88. According to H.P. Govt. notification of January 1981 which of the following is not included in the category of scheduled castes in H.P.?
 - (A) Lamba
 - (B) Banjara
 - (C) Turi
 - (D) Sansi

- 89. On which river is Renuka Dam Hydel Power Project ?
 - (A) Yamuna
 - (B) Bata
 - (C) Giri
 - (D) Tons
- 90. Government of India has sanctioned
 four Model Schools for the
 educationally backward Blocks of
 Chamba District of H.P. Which one
 of them is in Pangi Block?
 - (A) Bharia Kothi
 - (B) Khushnagri
 - (C) Dand
 - (D) Hillour

- 91. What is the approximate length of India's border with China (Tibet)?
 - (A) 1597 kms
 - (B) 3488 kms
 - (C) 4388 kms
 - (D) 5485 kms
- 92. From which date were the recommendations of 7th Pay

 Commission implemented ?
 - (A) January 01, 2016
 - (B) March 21, 2016
 - (C) April 01, 2016
- (D) July 01, 2016

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- 93. What award was given to flight purser Neerja Bhanot posthumously by the British House of Commons in July 2016 ?
 - (A) Bharat Abhiman
 - (B) Bharat Maan
 - (C) Bharat Gaurav
 - (D) Bharat Shaan
- 94. Who headed the committee which recommended that the policy of detaining students should be reinstated beyond class V?
 - (A) Sudhir Mankad
 - (B) Shailja Chandra
 - (C) J.S. Rajput
 - (D) TSR Subramanian

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95.	Where was the first Indian Security	98.	What is the official language of
	Press located ?		Israel ?
	(A) Dewas		(A) English
	(B) Mysore		(B) Latin
	(C) Nasik		(C) Greek
	(D) Hoshangabad	9	(D) Hebrew
96.	Which country is hosting the 2018	99.	Which day is observed as
	Asian Games ?	-	International Day of Happiness ?
	(A) Japan	0	(A) March, 20
	(B) China		(B) April, 01
	(C) Indonesia		(C) June, 21
	(D) India		(D) October, 02
97.	Who is the author of Future Shock?	100.	Lunar eclipse occurs only on :
	(A) Elie Wiesel		(A) Amavasya (new moon)
	(B) Ram Chander Guha		(B) Purnima (full moon)
	(C) Alvin Toffler	e e e e e e e e e e e e e e e e e e e	(C) Ashtami
	(D) Durant Will	livan U	(D) Ekadashi
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