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TPSC MO

Previous Year Paper
(Dental)
28 Aug, 2022

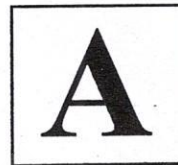


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TR/MOD/GAT/2022

Test Booklet Series

**TEST BOOKLET
GENERAL ABILITY TEST**



(Signature of the Candidate)

(Invigilator's Signature)

Time Allowed – Two (02) hours

Maximum Marks – 85

INSTRUCTIONS

1. IMMEDIATELY CHECK THE TEST 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 IN THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.**
3. This Booklet contains 85 items (questions). Each question has four responses (answers). You will select the responses 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 most appropriate. In any case, choose **ONLY ONE** response for each item.
4. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
5. All items carry equal marks.
6. Before you proceed to mark in the Answer Sheet the responses to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instruction sent to you with your Admission Certificate.
7. After you have completed filling in responses on the Answer Sheet and the Examination is completed, you should handover the Answer Sheet to the Invigilator only. You are permitted to take away the Test Booklet.
8. Sheets for rough work are appended on the Test Booklet at the end.
9. **Penalty for wrong answers :**
 - (a) There will be four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-fourth** of the marks assigned to that question will be deducted as penalty.
 - (b) If a candidate gives more than one answer, it will be treated as a **Wrong Answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (c) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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(A) Delhi (B) New Delhi

PART – I

1. What is the State animal of Tripura ?
(A) Grey Mongoose (B) Phayre's leaf monkey
(C) Barasingha (D) Fishing cat
2. How many official languages are there in the Eighth Schedule of constitution of India as on 30.06.2022 ?
(A) 14 (B) 16
(C) 19 (D) 22
3. When did Subhash Chandra Bose proclaimed the formation of Provisional Government of Free India ?
(A) 21st October, 1943 (B) 1st September, 1942
(C) 11th August, 1942 (D) 6th August, 1946
4. World Oral Health Day is observed every year on
(A) 16th January (B) 15th February
(C) 14th March (D) 20th March

5. Which Country started 'Knock Every Door' campaign to boost Covid-19 vaccination ?
- (A) China (B) United Kingdom
(C) India (D) None of these
6. Which of the following is least cariogenic ?
- (A) Cooked starch (B) Sucrose
(C) Fructose (D) Raw starch
7. The cement which is least soluble in oral cavity is
- (A) Silico-phosphate cement
(B) Glass ionomer
(C) Resin cement
(D) Polycarboxylate cement
8. The lickable television concept 'Taste The TV' (TTTV) is developed by
- (A) Japan (B) North Korea
(C) China (D) Germany
9. The name of the campaign launched by India and UNICEF to engage young people to address Covid-19 crisis is
- (A) Covifight (B) Diffuse Covid
(C) Young Warrior (D) Coviyouth

PART – II

10. Which structural alteration of β -globin gene causes β -Thalassemia type-III ?

- (A) Protein Folding (B) RNA Processing
(C) mRNA Production (D) Transcriptional Control

11. Relapse following orthodontic correction of teeth is associated with

- (A) Supracrestal fibres (B) Oblique fibres
(C) Horizontal fibres (D) Apical fibres

12. In permanent maxillary 1st molar the mesiodistal width of mesio-palatal cusp is how much of M-D width of crown palatally ?

- (A) $3/5$ (B) $2/5$
(C) $1/5$ (D) $2/3$

13. Arrange in the increasing order with respect to the half life of following drugs :

- (i) Aspirin
(ii) Digoxin
(iii) Penicillin-G
(iv) Phenobarbitones

- (A) (i) < (iii) < (ii) < (iv) (B) (i) < (iii) < (iv) < (ii)
(C) (iii) < (ii) < (i) < (iv) (D) None of these

14. A patient who has undergone massive blood transfusion developed diarrhea, chest pain and palpitations and nausea vomiting. He is fully oriented and developed no seizure activity. His ECG shows Tall Peaked T wave with narrow base, short QT interval and depression of ST segment. His diagnosis is
- (A) Hypokalemia (B) Hyponatremia
(C) Hyperkalemia (D) Hypernatremia
15. Most sensitive biomarkers for heart failure is
- (A) B-type Natriuretic Peptide (BNP)
(B) Troponin T
(C) C-Reactive protein
(D) None of these
16. The tingling sensation felt in the nose just before sneezing is carried by
- (A) glossopharyngeal nerve (B) facial nerve
(C) nasopalatine nerve (D) nasociliary nerve
17. In adults, the spinal cord normally ends at
- (A) the lower border of L1 (B) the lower border of L3
(C) the lower border of S1 (D) the lower border of L5
18. Fixative used for testicular biopsy for infertility is
- (A) Zenker fluid (B) Bouin fluid
(C) Ethyle Alcohol (D) Glutaraldehyde

19. Reactionary haemorrhage occurs

- (A) After 48 hours of surgery (B) Within 24 hours of surgery
- (C) After 72 hours of surgery (D) After 7-14 days of surgery

20. The tricuspid is located between which two chambers of the heart?

- (A) The right and left ventricle
- (B) The right atrium and the right ventricle
- (C) The right and left atria
- (D) The left atrium and the left ventricle

21. Which of the following parts of alveolar bone does not show Haversian system?

- (A) Cancellous trabeculae (B) Bundle bone
- (C) Lamellated bone (D) External cortical plate

22. Vincent's infection is caused by all except

- (A) *Borrelia Vincentii*
- (B) *Spirochetes*
- (C) *Fusobacterium fusiforme*
- (D) *Streptococcus mutans*

23. Nalaxone reverses respiratory depression caused by

- (A) Meperidine (B) Lorazepam
- (C) Alcohol (D) Phenobarbital

24. Persons vaccinated against hepatitis B virus, who have developed immunity are also immune to

- (A) hepatitis A virus
- (B) hepatitis C virus
- (C) hepatitis D virus
- (D) hepatitis E virus

25. The most conspicuous clinical sign of right-sided heart failure is

- (A) Systemic venous congestion
- (B) Mitral stenosis
- (C) Pulmonary adema
- (D) None of these

26. Which of the following may lead to pleural effusion (Exudative Type)?

- (A) Cirrhosis
- (B) Nephrotic syndrome
- (C) Congestive heart failure
- (D) Bronchiogenic carcinoma.

PART – III

27. Which method reduces porosity and firing shrinkage for dental ceramics ?

- (A) Glazing
- (B) Altering P : L ratio
- (C) Condensation
- (D) Preheating

28. Potassium Titanium Fluoride in alginate acts as

- (A) Retarder
- (B) Reactor
- (C) Accelerator
- (D) Plasticizer

29. Hardness of which of the following abrasives is maximum ?

- (A) Sand
- (B) Emery
- (C) Silicon Carbide
- (D) Potash

30. Activating compound for visible light curing system is

- (A) Hydroquinone
- (B) Ubiquinone
- (C) Camphorquinone
- (D) Benzoin methyl ether

31. What is the ideal wavelength at which dental composites polymerise ?

- (A) 100 to 200nm
- (B) 201 to 300nm
- (C) 301 to 400nm
- (D) 401 to 500nm

32. Low caries prevalence is seen in

- (A) Gardner Syndrome
- (B) Down's Syndrome
- (C) Hereditary ectodermal dysplasia
- (D) Noonan Syndrome

33. S. Mutans is associated with all of the following except

- (A) Deep dentinal caries
- (B) Pit and fissure caries
- (C) Root surface caries
- (D) Smooth surface caries

34. Which of the following tumors can mimic acanthomatous ameloblastoma histologically

- (A) Odontoma
- (B) Keratocystic Odontogenic tumor
- (C) Squamous Odontogenic tumor
- (D) Adenomatoid Odontogenic tumor

35. Which of the following is an anti-cariogenic bacterium?

- (A) Streptococcus mutans
- (B) Lactobacillus acidophilus
- (C) Actinomyces viscosus
- (D) Veionella

36. Non-Inflammatory, Non-Neoplastic, Asymptomatic swelling of the salivary glands in alcoholics is known as

- (A) Mikulicz's disease
- (B) Sialadenitis
- (C) Sjogren's Syndrome
- (D) Sialadenosis

37. Ghost images seen in a panoramic radiograph appear on the

- (A) Same side of the radiograph from the real counter part and lower down
- (B) Opposite side of the radiograph from the real counter part and lower down
- (C) Same side of the radiograph from the real counter part and higher up
- (D) Opposite side of the radiograph from the real counter part and higher up

38. Tennis racket like radiographic pattern is seen most commonly in

- (A) Odontogenic Keratocyst
- (B) Odontogenic Myxoma
- (C) Adenomatoid Odontogenic Tumour
- (D) Calcifying Epithelial Odontogenic Tumour

39. Spontaneous hemorrhage from the gingiva may be indicative of

- (A) Parotitis
- (B) Hodgkin's disease
- (C) Diabetes
- (D) Leukemia

40. Which of the following is used to minimize salivary gland dysfunction in radiotherapy ?

- (A) Atropine
- (B) Pilocarpine
- (C) Glycopyrrate
- (D) Amifostine

41. Acceptable whole body radiation for Dentists and their workers (Occupationally exposed) per year is

- (A) 50 mSv
- (B) 20 mSv
- (C) 15 mSv
- (D) 10 mSv

42. Which of the following is a surgical procedure to treat cleft lip ?

- (A) Caldwell-luc
- (B) Von Langenback repair
- (C) V-Y push back plasty
- (D) Millard's repair

43. At what age a child is expected to have 12 permanent and 12 primary teeth ?

(A) 6.5 years

(B) 7.5 years

(C) 9 years

(D) 11 years

44. The major problem involved in performing pulpectomy in primary teeth is

(A) root resorption

(B) inadequate operator skill

(C) limited knowledge of pulpal anatomy of deciduous teeth

(D) All of the above

45. The Leeway space is

(A) More in maxilla than in mandible

(B) More in mandible than in maxilla

(C) Equal in maxilla and mandible

(D) Does not exist in maxilla

46. Thumb sucking is considered normal till the age of

(A) 6 months

(B) 2 years

(C) 3½ – 4 years

(D) 6 years or till permanent teeth erupt

47. Ellis and Devis class IV tooth fracture is

- (A) Non-vital tooth, without loss of crown structure
- (B) Displacement of tooth without fracture of crown or root
- (C) Fracture of entire crown and its replacement
- (D) Fracture involving Enamel and dentin

✓ 48. In cephalometry, the most stable point in a growing skull is the

- (A) Sella turcica
- (B) Nasion
- (C) Broadbent's point
- (D) Bolton point

49. The most frequent cause of malocclusion is

- (A) Thumb sucking
- (B) Mouth breathing
- (C) Heredity
- (D) Ectopic eruption

50. "Cavitation" is a term used in relation to

- (A) Osseous surgery
- (B) Curettage
- (C) Ultrasonic scaling
- (D) Furcation treatment

51. Breakdown of periodontal fibers in periodontitis is due to bacterial enzyme

- (A) Collagenase
- (B) Hyaluronidase
- (C) Coagulase
- (D) None of these

52. The main barrier for diffusion of Local Anaesthesia into the nerve is

- (A) Epineurium
- (B) Perineurium
- (C) Endoneurium
- (D) Epineural sheath

53. Which of the following organisms is not implicated in the aetiology of periodontal disease ?

(A) *Bacteroides*

(B) *Wolinella*

(C) *Neisseria*

(D) *Eikenella*

54. Plaque is attached to tooth surface because

(A) levans are gummy

(B) dextrans are insoluble and sticky

(C) microorganisms produce sticky lipoproteins

(D) None of these

55. The type of bone present between the furcations is

(A) Cortical

(B) Cancellous

(C) Fibrous

(D) Spongy

56. Protrusive records are used to adjust

(A) Each side shift

(B) Condylar inclination on one side

(C) Centric relation

(D) Condylar inclination on both sides

57. A gnathodynamometer is used to record

(A) Biting force

(B) Centric relation

(C) Vertical dimensions

(D) FH plane

58. The most common trigger factor for bruxism is
- (A) TMJ dysfunction
 - (B) Pericoronitis
 - (C) Discrepancy between centric occlusion and centric relation
 - (D) Acute periodontal disease
59. The chamfer finish line is used in
- (A) the facial surface of metal-ceramic crown
 - (B) the lingual surface of metal-ceramic crown
 - (C) the facial surface of porcelain jacket crown
 - (D) the lingual surface of porcelain jacket crown
60. The impression material of choice for a patient with oral submucous fibrosis is
- (A) Zinc oxide eugenol
 - (B) Addition silicon
 - (C) Condensation silicon
 - (D) Plaster of paris
61. Acid etching on enamel is done for _____ seconds. (Fill in the blank)
- (A) 5
 - (B) 15
 - (C) 25
 - (D) 60
62. ART in dentistry means _____. (Fill in the blank)
- (A) Anterior Restorative Treatment
 - (B) Anti Retro Viral Therapy
 - (C) Atraumatic Restorative Treatment
 - (D) None of these

63. Which endodontic irrigant has the capacity to completely dissolve pulp tissue ?

- (A) Chlorhexidine digluconate (B) Hydrogen peroxide
- (C) EDTA (D) Sodium Hypochloride

64. Pain on release of biting force in case of bite test indicates

- (A) Apical Periodontitis (B) Fractured cusp
- (C) Root fracture (D) Reversible pulpitis

65. During extraction, rotation movement should be used for

- (A) Maxillary central incisor (B) Maxillary 1st premolar
- (C) Maxillary canine (D) Mandibular central incisor

66. Bleaching of Vital teeth

- (A) Causes irreversible pulpitis
- (B) Affect both enamel and dentine
- (C) Can initiate cervical erosion response
- (D) None of these

67. Control restoration helps in all except

- (A) Pulpal protection from pH changes
- (B) Control of caries
- (C) Provides contour for gingival health
- (D) Provides complete resistance against tooth fracture

68. Recommended p/l ratio of MTA is
- (A) 3 : 1 (B) 1 : 3
(C) 2 : 3 (D) 3 : 2
69. Maximum revascularization of avulsed tooth takes place by putting it in
- (A) Doxycycline (B) Ledermix
(C) Dexamethasone (D) Ibuprofen
70. After endodontic treatment, apical foramen is closed by
- (A) Bone (B) Cementum
(C) Dentin (D) PDL fibres
71. A patient of road traffic accident came to OMFS department. On examination there was anterior open bite and premature contacts in premolar region bilaterally. He has no history of ear bleed or pain/tenderness in preauricular region. His facial nerve was intact most probable diagnosis is
- (A) Bilateral medially displaced condylar fracture
(B) Bilateral Lefort I fracture
(C) Bilateral TM Joint effusion
(D) Bilateral Zygomatic complex fracture
72. The Kazanjian's technique of Vestibuloplasty leaves
- (A) Lip surface to re-epithelized
(B) Alveolar surface to re-epithelized
(C) Depth of sulcus periosteum to re-epithelized
(D) None of these

73. Which of the following is not true regarding chemiclave ?

- (A) A short cycle of sterilization
- (B) No rusting of instruments
- (C) Availability of dry immediate usable instruments
- (D) Low cost

74. An Maxillofacial Surgeon is treating an orbital floor blow out fracture in a 47 years old man with a history of hypertension and smoking. During manipulation at orbital floor the patient became hypotensive (SBP=65) and Bradycardia developed (Heart Rate = 45). The most appropriate pharmacological treatment for this condition will be:

- (A) Ephedrin 20 mg IV
- (B) Transcutaneous pacing
- (C) Epinephrin 1 mg IV
- (D) Atropin 0.5 mg IV

75. A painless doughy mass of superficial lobe of parotid gland which demonstrates increased uptake of technicium pertechnetate 99, most likely it represents

- (A) Pleomorphic adenoma
- (B) Warthin tumor
- (C) Onco cytoma
- (D) Basal cell carcinoma

76. The most common reason for the removal of impacted mandibular third molars is

- (A) Referred pain
- (B) Recurrent pericoronitis
- (C) Chronic periodontal disease
- (D) Orthodontic treatment

77. Formocresol pulpotomy is indicated in

- (A) Primary teeth free of inflammation or infection
- (B) Permanent teeth with traumatic exposure
- (C) Primary teeth with radiolucency
- (D) Incompletely formed permanent teeth

78. All of the following can decrease Orthodontic tooth movement except
- (A) Bisphosphonates (B) NSAIDs
(C) Calcitonin (D) Vitamin D
79. The sudden appearance of a 'dumb-bell' swelling after the administration of PSA block is due to penetration in
- (A) Internal maxillary artery (B) Pterygoid plexus of veins
(C) Greater palatine artery (D) Sphenopalatine artery
80. A patient with head injury presented with paralysis of face which then progressed to involve the arms and legs. There is possibility of
- (A) Subdural haemorrhage (B) Extra dural haemorrhage
(C) Meningitis (D) Bleeding from circle of willis
81. The study which proceeds from cause to effect is
- (A) Retrospective (B) Cohort
(C) Case control (D) Descriptive
82. The term equivalent to incubation period of infectious disease is
- (A) LAG PERIOD (B) LOG PERIOD
(C) LATENT PERIOD (D) LABEL PERIOD
83. "Chocking off" phenomenon is observed in which topical fluoride mechanism ?
- (A) Stannous fluoride (B) Sodium fluoride
(C) Acidulated phosphate fluoride (D) Silver Diamine fluoride

84. Bupropion, a non-nicotine replacement therapy, cessation medication is also marketed as

- (A) An antiepileptic
- (B) An antidepressant
- (C) An antihistamine
- (D) An emetic

85. Mean, Median and Mode coincides in a

- (A) Gaussian distribution
- (B) Poisson distribution
- (C) Binomial distribution
- (D) Log normal distribution.

