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JPSC

**Previous Year Paper
Dental Officer (Doctor)
Paper-I 2016**





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Booklet Series

Booklet No.

A

**QUESTION BOOKLET
PAPER – I**

102817

Time Allowed : 2 Hours

Maximum Marks : 100

INSTRUCTIONS FOR CANDIDATES

1. Immediately after the commencement of the Examination you should check that this Question Booklet **does not have any unprinted or torn or missing pages or items**, etc. If so, get it replaced by a complete Question Booklet.
2. You have to enter your Roll Number on the Question Booklet in the Box provided alongside. **DO NOT** write anything else on the Question Booklet.

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3. Candidate must fill up the necessary information in the space provided on the supplied OMR (Optical Mark Recognition) Answer Sheet before commencement of the Examination. *See directions on the OMR Answer Sheet.*
4. For marking the correct answer, darken **one** circle by **black** or **blue** ball point pen only. **Do not mark more than one circle.** Darkening more than one circle against an answer will be treated as wrong answer.
5. Do not detach any leaf from this Question Booklet. After the Examination, **hand over the OMR Answer Sheet to the Room Invigilator.** You are allowed to take the Question Booklet after the Examination is over.
6. This Question Booklet contains **100 questions**. There is no negative marking for any wrong answer.
7. One page has been provided for Rough Work in this Question Booklet.
8. Possession and use of Calculator, Mobile Phone and Electronic Gadget etc. is prohibited in the Examination Hall.
9. Candidates are informed that evaluation of the OMR Answer Sheet will be done by Electronic Machine. So, you should shadow the bubbles of Roll No. and Booklet Series properly on OMR Answer Sheet, otherwise Machine will not be able to capture the required information. Failure to comply this instruction will be the sole responsibility of the candidates.
10. Candidates appearing in the Examination will be allowed to leave the Examination Hall only after completion of the Examination.

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1. What is the cause of localised Shrinkage porosity ?
 - (A) Sprue former having diameter less than 1.5 mm
 - (B) Absence of reservoir
 - (C) Presence of a sprue former on a MOD cavity wax pattern with a bulky proximal walls
 - (D) Any of the above
2. Which of the following cement bonds to tooth structure has an anticariogenic effect, has a degree of translucency and does not irritate pulp ?
 - (A) Polycarboxylate cement
 - (B) resin cement
 - (C) Glass ionomer
 - (D) Silica
3. In this visible light activation system, the visible light radiation used should be greater than
 - (A) 100 nanometers
 - (B) 200 nanometers
 - (C) 300 nanometers
 - (D) 400 nanometers
4. Glazed porcelain
 - (A) Is much stronger than unglazed porcelain
 - (B) Is weaker than unglazed porcelain
 - (C) Glazing has no effect on strength of porcelain
 - (D) Is less esthetic unglazed porcelain
5. Blue inlay wax is
 - (A) Processing wax
 - (B) Pattern Wax
 - (C) Impression wax
 - (D) Utility Wax
6. A material utilised for making secondary impression for edentulous arch, registration of occlusal records and as surgical dressing is
 - (A) calcium hydroxide
 - (B) polysulfide
 - (C) zinc oxide eugenol
 - (D) Impression waxes



7. 'Binder' in composition of toothpaste is
(A) Hydrated Silica (B) Glycerine
(C) Carboxymethyl cellulose (D) Sorbitol
8. Current protocol for disinfecting alginate impression recommended by Centre for Disease Control (CDC) is
(A) Immersion of impression in 2% glutaraldehyde for 20 minutes
(B) Immersion of impression in iodoform for 20 minutes
(C) Spray of household bleach 1:10 dilution
(D) Spray of 90% methylated spirit
9. Which of the following passes rapidly across the cell membrane ?
(A) CO₂ (B) Water
(C) Glucose (D) Urea
10. Which type of hypoxia is common in high attitude ?
(A) Hypoxic hypoxia (B) Anemic hypoxia
(C) Stagnant hypoxia (D) Histotoxic hypoxia
11. Heart rate increased by all except
(A) Sympathetic nerve stimulation (B) Adrenaline injection
(C) Exercise (D) Parasympathetic nerve stimulation
12. The deficient hormone in diabetes insipidus is
(A) Calcitriol (B) Vasopressin
(C) Cortisol (D) Glucagon
13. Cerebellum is mainly concerned with
(A) Fine skillful membrane
(B) Muscle power
(C) Muscle tone alone
(D) Tone, posture and body balance

P – I



14. Which period of menstrual cycle is constant ?
(A) Follicular (B) Bleeding
(C) Luteal (D) None of the above
15. Presence of Vanillylmandelic Acid (VMA) is suggestive of in urine
(A) Cushing's syndrome (B) Pituitary syndrome
(C) Pheochromocytoma (D) Insulinoma
16. Mandibular foramen provides passage to
(A) Inferior alveolar nerve (B) Inferior alveolar artery
(C) Inferior alveolar vein (D) All of the above
17. Root value of phrenic nerve is
(A) C₃ C₄ C₅ (B) C₄ C₅
(C) C₄ C₅ C₆ (D) None of the above
18. Carotid triangle contains all except
(A) Glossopharyngeal nerve (B) Vagus nerve
(C) Accessory nerve (D) Hypoglossal nerve
19. Action of lateral pterygoid muscle is
(A) Closing of mouth (B) Opening of mouth
(C) Retraction of lower jaw (D) Cleaning of the teeth
20. The upper lip is formed by
(A) Maxillary processes (B) Frontonasal processes
(C) Maxillary and median nasal process (D) Front and median nasal process
21. Cerebellum has three layers except
(A) Purkinje cell layer (B) Granular layer
(C) Multiformed layer (D) Molecular layer



22. Treacher collins syndrome is not associated with
- (A) Mutation of TCoF₁ gene (B) Autosomal Dominant trait
(C) Upper eye lid coloboma (D) Molar hypoplasia
23. Which of the following is not a part of mucous membrane ?
- (A) Epithelium (B) Lamina propria
(C) Submucosa (D) Muscularis mucosa
24. Which of the following has hyaline cartilage ?
- (A) Intervertebral disc (B) Glenoid labrum
(C) Epiphyseal plate (D) Menisci
25. Type of joint between root of teeth and socket
- (A) Syndesmoses (B) Synovial
(C) Wedge and groove joint (D) Gomphoses
26. Structure not passing through foramen ovale
- (A) Accessory meningeal artery
(B) Greater superficial petrosal nerve
(C) Mandibular nerve
(D) Emissary vein
27. The condyle of mandible is composed of
- (A) Compact bone
(B) Cancellous bone
(C) Cancellous bone covered by compact bone
(D) Woven bone
28. The principal cells of healthy functional periodontal ligament are the following except.
- (A) Fibroblasts (B) Osteoblasts
(C) Cementoblasts (D) Odontoblasts



29. Fusion of palatal shelves requires alteration in epithelium on the mesial edges
 - (A) During elevation
 - (B) Prior to elevation
 - (C) After elevation
 - (D) Does not require any attenuation during fusion
30. Resorption of deciduous incisors and canine begins on
 - (A) Buccal surface
 - (B) Distal surface
 - (C) mesial surface
 - (D) Lingual surface
31. Mandibular 1st molar has
 - (A) 3 cusps
 - (B) 2 cusps
 - (C) 4 cusps
 - (D) 5 cusps
32. Hemostasis depends on all of the following except
 - (A) Erythropoietin
 - (B) Platelet aggregation
 - (C) Vaso constriction
 - (D) Calcium
33. Pulse rate is increased in all of the above except
 - (A) Hypovolemia
 - (B) During exercise
 - (C) Fever
 - (D) Hypothyroidism
34. A person is having tidal volume 500 ml, vital capacity 4700 ml and inspiratory capacity 3500 ml, his expiratory reserve volume will be
 - (A) 3000 ml
 - (B) 1700 ml
 - (C) 1200 ml
 - (D) 700 ml
35. Angiotensin converting enzyme inhibitors do not cause
 - (A) Hyperkalemia
 - (B) Hypernatremia
 - (C) Angioedema
 - (D) Dysgeusia



36. Metronidazole penetrates well in all except
(A) Breast milk (B) Placenta
(C) Seminal fluid (D) Saliva
37. Adverse effects of thiazide include all except
(A) Hypokalemia (B) Decrease glucose tolerance
(C) Hyponatremia (D) Hypocalcemia
38. Characteristic of tramadol is
(A) strong μ opioid receptor antagonist
(B) not metabolised by liver
(C) more effective in racemic mixture than either enantiomers
(D) not reduce the seizure threshold
39. Following are the immunosuppressant except
(A) Tacrolimus (B) Tetanus toxoid
(C) Etanercept (D) Mycophenolate Mofetil
40. Which of the following do not suppress gastric acid secretion ?
(A) Pantoprazole (B) Famotidine
(C) Sucralfate (D) Pirenzapine
41. Calcium is absorbed predominantly from
(A) Duodenum (B) Jejunum
(C) Ileum (D) Colon
42. Which of the following analgesic cannot be given in head injury patient ?
(A) Morphine (B) Ibuprofen
(C) Rofecoxib (D) Acetaminophen
43. Which of the following LA does not cause vasodilation ?
(A) Tetracaine (B) Lidocaine
(C) Cocaine (D) Bupivacaine

P – I



44. Which of the following penicillins has an anti pseudomonas activity ?
(A) Cefalexin (B) Piperacillin
(C) Dicloxacillin (D) Cloxacillin
45. All of the following drug cause bone marrow aplasia except
(A) Phenylbutazone (B) Alpha methyl hydantoin
(C) Chloramphenicol (D) Methicillin
46. Which of the following statement is correct about a highly ionized drug ?
(A) it accumulates in cellular lipid
(B) it can cause easily the placental barrier
(C) it is excreted mainly by kidney
(D) it is absorbed from intestine
47. Which of the following drug at higher doses changes its kinetic from 1st order to zero order ?
(A) Phenytoin (B) Esmolol
(C) Theophylline (D) Probenecid
48. All of the following antihypertensive drug can be used safely in hypertensive pregnant female except
(A) nifedipine (B) Methyldopa
(C) Enalapril (D) Labetalol
49. Which of the following is a parenteral route of drug administration ?
(A) Oral (B) Topical
(C) Sublingual (D) Intravenous
50. Which of the following is a Beta 2 antagonist bronchodilator used in acute bronchial asthma ?
(A) Theophylline (B) Salbutamol
(C) Salmeterol (D) Sodium cromoglycate



51. Which of the following is astringent and can be used for bleeding gums ?
(A) Theophylline (B) Tannic acid
(C) Povidone iodine (D) Hydrogen peroxide
52. Which of the following is a mummyfying agent ?
(A) Phentaremine (B) Paraform
(C) Silver sulfadiazine (D) Povidone iodine
53. Erythrosine is used in dentistry as
(A) Mummyfying agent (B) Disclosing agent
(C) Obtundent (D) Mouthwash
54. Correct statement regarding coagulation is
(A) It is agglutination
(B) Involves antibody and antigen
(C) Clotting of blood
(D) Occurs in mismatched blood transfusion
55. Acid secretion in stomach is stimulated by all except
(A) GIP (B) Vagal discharge
(C) Histamine (D) Gastrin
56. All the statement regarding accommodation of eyes are correct except
(A) There is constriction of pupil
(B) There is increase in power of lens
(C) There is convergence of eyes
(D) Mainly increase in anterior curvature of lens
57. Keratoconjunctivitis sicca, xerostomia and rheumatoid arthritis are associated with
(A) Sjogren's syndrome (B) Ellis Van Creveld syndrome
(C) Von Mikulicz syndrome (D) Crest syndrome

P – I



58. Cotton wool appearance is seen in
(A) Cherubism (B) Massive osteolysis
(C) Central giant cell granuloma (D) Paget's disease
59. Fibrous dysplasia is usually caused by
(A) Viral infection (B) GNAS1 gene mutation
(C) GS alpha gene mutation (D) PAX gene mutation
60. Papilloma is caused by
(A) Tobacco consumption (B) Alcohol consumption
(C) Virus (D) Bacteria
61. Most common sequelae of dental caries is
(A) Pulpal inflammation (B) Periapical pathosis
(C) Osteomyelitis (D) Sinus formation
62. All are clinical features of myasthenia gravis except
(A) Worsen by exertion (B) Proximal muscle weakness
(C) Absent deep tendon reflex (D) Spontaneous remission
63. Upper motor neuron lesion is characterised by
(A) Weakness and spasticity (B) Rigidity
(C) Fasciculations (D) Localised muscular atrophy
64. ST segment elevation seen in all of the following condition except
(A) Myocardial infarction (B) Constrictive pericarditis
(C) Ventricular aneurysm (D) Coronary artery spasm
65. Most common lymph node involved in Hodgkin's lymphoma is
(A) Inguinal (B) Cervical
(C) Axillary (D) Subclavicular



66. Which of the following is not a cause of urogenital ulceration ?
(A) Ulcerative colitis (B) Reiter's syndrome
(C) Coeliac disease (D) Steven Johnson syndrome
67. In the diagnosis of Rheumatic fever which of the following may be helpful ?
(A) Staph aureus grown on throat culture
(B) Polyarthritis
(C) ASO titre of less than 1: 200
(D) A generalised maculopapular rash
68. Which of the following drug cause gingival hyperplasia ?
(A) Levtriacetam (B) Phenytoin
(C) Valproate (D) Amoxicillin
69. Which type of patient is most likely hypersensitive to aspirin ?
(A) Extrinsic asthmatic (B) Intrinsic asthmatic
(C) Chronic bronchitic (D) Patient with viral infection
70. Highest malignant potential
(A) Leukoplakia (B) Erythroplakia
(C) OSMF (D) Verrucous hyperplasia
71. Dens in dente is most commonly seen in
(A) Central incisor (B) Lateral incisor
(C) Canine (D) Premolars
72. Widening of PDL space is not seen in
(A) Fibrosarcoma (B) Osteosarcoma
(C) Scleroderma (D) Hyperparathyroidism
73. Which of the following is not a Hamartoma ?
(A) Hemangioma (B) Lymphangioma
(C) Torus palatinus (D) Fordyce's spots



74. The following statement is true for nephrotic syndrome except
 (A) RBC cast are found in urine (B) Hypoproteinuria
 (C) Edema (D) Hyperlipidemic
75. All of the following can cause optic neuritis except
 (A) Rifampicin (B) Digoxin
 (C) Chloroquine (D) Ethambutol
76. Cause of vasodilation in spider nevi
 (A) Estrogen (B) Testosterone
 (C) Hepatotoxin (D) FSH
77. The valve least effected in rheumatic fever is
 (A) Pulmonary valve (B) Tricuspid valve
 (C) Aortic valve (D) Mitral valve
78. Kidney has following functions
 (A) Excreting waste products (B) Secreting hormones
 (C) Regulation acid-base balance (D) All of the above
79. Which of the following is not a side effect of amlodipine ?
 (A) Pedal edema (B) Tachycardia
 (C) Dizziness (D) Hyperkalemia
80. 95% of all UTI are caused by
 (A) S. Epidermis (B) Candida
 (C) Enterococcus (D) E. coli
81. All are true for hemophilic except
 (A) Increase Partial Thromboplastin Time (PTT)
 (B) Increased bleeding time
 (C) Decreased factor VIII
 (D) Decreased factor IX



82. A 56 year old male came to you for dental extrusion. His Hb was 18 gm/dl. Which test will you do to exclude polycythemia vera ?
- (A) Hematocrit (B) Total leucocyte count
(C) Total platelet count (D) Red cell mass
83. A 70 year old male developed pain in epigastrium. He was taking omeprazole for peptic ulcer disease for the last 3 months. What investigation will you ask urgently ?
- (A) An ECG
(B) Upper GI endoscopy
(C) Ultrasound of upper abdomen
(D) Plain X-ray of abdomen
84. A young male patient while consulting you also revealed that he had cough, evening rise of temperature, weight loss for last 2 months. What investigation will you advice ?
- (A) Sputum for AFB (B) Mantoux test
(C) X ray of chest (D) All of the above
85. All are seronegative spondyloarthropathy with eye manifestation except
- (A) Ankylosing spondylitis (B) Reiter's syndrome
(C) Rheumatoid arthritis (D) Psoriatic arthritis
86. Which of the following is not test for diabetes mellitus ?
- (A) Fasting blood glucose (B) Random blood glucose
(C) D-xylose test (D) Oral glucose tolerance test
87. HbA1c level in blood explains
- (A) Acute rise of blood sugar
(B) Long term status of blood sugar
(C) Chronic pancreatitis
(D) Hepatorenal syndrome



88. Which is not a macrophage ?
- (A) Monocyte (B) Microglia
(C) Kupffer's cells (D) Lymphocytes
89. Most common cause of cerebro vascular accident is
- (A) Infarction of brain
(B) Tumor of brain
(C) Infection of brain and meninges
(D) Haemorrhage in brain parenchyma
90. Normal intrapleural pressure is negative because
- (A) The chest wall and lungs recoil in opposite directions
(B) Intrapulmonary pressure is negative
(C) The surfactant prevents pulmonary collapse
(D) Transpulmonary pressure is negative
91. Massage and application of liniments to painful areas in the body relieves pain due to
- (A) Stimulation of endogenous analgesic system
(B) Release of endorphins by first order neurons in brain stem
(C) Inhibition of large myelinated afferent fibres
(D) Release of glutamate and substance P in the spinal cord
92. Synthesis of 1 mole of urea requires how many mole of ATP
- (A) 1 mole of ATP (B) 2 moles of ATP
(C) 3 moles of ATP (D) 4 moles of ATP
93. Von Gierke's disease is due to deficiency of
- (A) Glycogen synthetase
(B) Glucose-6-phosphatase
(C) Muscle phosphorylase
(D) Liver phosphorylase



94. False about trans fatty acid
- (A) Hydrogenation increase TFA
 - (B) Fried food have high content of TFA
 - (C) Hydrogenation decrease TFA
 - (D) It increases LDL and decrease HDL
95. Sickling in Hbs disease is primarily caused by
- (A) Decreased solubility
 - (B) Altered function
 - (C) Altered O₂ binding capacity
 - (D) Decreased stability
96. All vitamins play role in citric acid cycle except
- (A) Riboflavin
 - (B) Pantothenic acid
 - (C) Niacin
 - (D) Ascorbic acid
97. All of the following are features of right sided heart failure except
- (A) Pulsatile liver
 - (B) Increased JVP
 - (C) Pedal edema
 - (D) Crepitation over lung base
98. All are true of nephrotic syndrome except
- (A) Oedema
 - (B) Hypoproteinemia
 - (C) RBC cast in urine
 - (D) Hypeplipidemic
99. All of the following are associated with gastric ulcer except
- (A) Smoking
 - (B) H. pylori infection
 - (C) High acid output
 - (D) Bile reflex
100. Klinefelter syndrome karyotype is
- (A) 47 XXX
 - (B) 45 XO
 - (C) 47 XXY
 - (D) 46 XX