

1. Borax role in agar as impression material :

- (A) Helps in setting of gypsum
- (B) Intermolecular attraction to improve strength of gel.
- (C) Improves appearance
- (D) Increases storage timing

2. What is the pH of set MTA ?

- (A) 2.5
- (B) 10.5
- (C) 3.5
- (D) 12.5

3. Ohngren's line for determination of stage of the antral tumor is imaginary line :

- (A) From medial canthus to angle of mandible
- (B) From medial canthus to chin
- (C) From lateral canthus to chin
- (D) From lateral canthus to angle of mandible

4. Dakin's solution is :

- (A) 1% NaOCl
- (B) 0.5% NaOCl
- (C) 5.2% NaOCl
- (D) 2.5% NaOCl

5. View of choice for mandibular duct calculus :
- (A) Bitewing
 - (B) Occlusal view of mandible
 - (C) Occlusal view of maxilla
 - (D) OPG
6. Potential toxic dose of fluoride :
- (A) 8 mg/kg body wt
 - (B) 5 mg/kg body wt
 - (C) 2 mg/kg body wt
 - (D) 32 mg/kg body wt
7. Which GP solvent have carcinogenic potential ?
- (A) Xylene
 - (B) Chloroform
 - (C) Eucalyptol oil
 - (D) Halothane
8. In FLOSA classification of mandibular fracture F2, LA stand for :
- (A) Comminuted fracture, angle fracture
 - (B) Multiple fracture, angle fracture
 - (C) Single fracture, supra-angular fracture
 - (D) Fracture with bone defect, coronoid process

9. Highest corrosion resistance phase of amalgam :

(A) Cu_3Sn (ϵ)

(B) γ_1 (Ag_2Hg_3)

(C) γ (Sn_{7-8}Hg)

(D) η (Cu_6Sn_5)

10. Defect associated with proliferation event of tooth development :

(A) Dentinogenesis imperfecta

(B) Twinning

(C) Anodontia

(D) Mulberry Molars

11. Primate space is also known as :

(A) Simians Space

(B) Leeway space

(C) Both (A) and (B)

(D) Anthropoid space

12. $1/3^{\text{rd}}$ space utilized by movement of anchor unit in :

(A) Absolute anchorage

(B) Maximum anchorage

(C) Minimum anchorage

(D) Moderate anchorage

13. EDTA used as irrigant given by Nygaard Ostby 1957.

- (A) 10% (B) 7%
(C) 17% (D) 12%

14. Which of the following is $\text{Ca}(\text{OH})_2$ based sealer ?

- (A) Tubliseal (B) Scalapex
(C) Calcibiotic root canal sealer (D) Rickert's sealer

15. Which of the following mixed dentition analysis is based on radiograph ?

- (A) Hixon old father analysis
(B) Moyers analysis
(C) Nance mixed dentition analysis
(D) Korkhaus analysis

16. Fish odor breath present in :

- (A) Kidney insufficiency (B) Liver insufficiency
(C) Diabetes (D) Steatorrhea

17. Plasma cells are dominated in which stage of Gingivitis ?

(A) Stage I

(B) Stage II

(C) Stage III

(D) Stage IV

18. Type of motion in magnetostrictive ultrasonic scaler :

(A) Linear

(B) Elliptical

(C) Cellular

(D) None of these

19. A 22 years old female presented with multiple, halo ulceration in oral cavity.

She gave the history of stress due to exam from last 1 week and ulcer healed

on its own but has reoccurred. The provisional diagnosis is :

(A) Herpes Labialis

(B) Recurrent Aphthous Ulcer

(C) Traumatic Ulcer

(D) Herpangina

20. Which among the following is exogenous pigmentation ?

(A) Post-inflammatory hyperpigmentation

(B) Graphite tattoos

(C) Perioral pigmentation in Peutz-Jegher syndrome

(D) Vitiligo

21. USG therapy relies on :

- (A) Low frequency oscillations
- (B) Higher frequency oscillations
- (C) Higher voltage biphasic current
- (D) Low voltage biphasic current

22. Which of the following protaper instrument work mainly at coronal $1/3^{\text{rd}}$ of root ?

- (A) Sx
- (B) S1
- (C) S2
- (D) F2

23. Site of ulceration most commonly seen in Riga-fede disease :

- (A) Dorsum of tongue
- (B) Ventral surface of tongue
- (C) Floor of mouth
- (D) Buccal mucosa

24. Micro-organism involved in ANUG :

- (A) Streptococcus
- (B) Borellia vincoti and fusobacterium
- (C) Actinomyces-comitans
- (D) Porphyromonas

25. Facial deformity in condylar hyperplasia :
- (A) Convex ramus on the affected side
 - (B) Concave ramus on affected side
 - (C) Convex ramus on non-affected side
 - (D) Deviation of mandible to affected side
26. Recommended location for conical pontic design :
- (A) Anterior teeth
 - (B) Molars without esthetic requirement
 - (C) Maxillary cuspids and premolars
 - (D) None of the above
27. Rouge in crocus cloth is made of :
- (A) Iron oxide
 - (B) Copper oxide
 - (C) Aluminium oxide
 - (D) Zinc oxide
28. Decompression sickness type embolism is seen in :
- (A) Descent : drivers
 - (B) Ascent : unpressurized flights
 - (C) Boat rower
 - (D) Both (A) and (B)

29. Optimum ratio of crown to root in abutment teeth :

(A) 1 : 2

(B) 2 : 3

(C) 1 : 1

(D) 2 : 1

$\frac{\text{Crown}}{\text{root}} = \frac{2}{3}$

30. Curve of Wilson is also called :

(A) Antero-posterior curve

(B) Mediolateral curve

(C) Bennette curve

(D) Curve of monsoon

31. Topical steroids can be helpful in, except :

(A) Traumatic ulcer

(B) RAS

(C) Erythro-leukoplakia

(D) Oral lichen planus

32. Which step will be altered in denture-making in osteoarthritis patients ?

(A) Impression making

(B) Jaw relation

(C) Teeth setting

(D) None of these

33. Minimum amount of chlorhexidine concentration for plaque prevention :

- (A) 0.2% (B) 0.12%
(C) 0.28% (D) 2%

34. Ante's law was given by :

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- (A) Cummer (B) Johnston
(C) J-fortiniti (D) Edward Kennedy

35. Which among the following is included under principles of tooth preparation ?

- (A) Biological consideration
(B) Mechanical consideration
(C) None of the above
(D) Both (A) and (B)

36. Which of the following are features of thyrotoxicosis, except :

- (A) Tremors (B) Intolerance to heat
(C) Palpitations (D) Intolerance to cold

37. Ghost teeth are seen in :

- (A) Dentinogenesis imperfecta
- (B) Amelogenesis imperfecta
- (C) Dentine dysplasia
- (D) Regional odontodysplasia

38. Condition where retention after correction of dental tissue is not needed ?

- (A) Severe rotation
- (B) Expanded rotation in cleft palate patient
- (C) Anterior cross-bite
- (D) Midline diastema

39. Reactionary haemorrhage occurs :

- (A) Within 7 days
- (B) Within 7-10 days
- (C) Within 24 hours of operation
- (D) During the surgery

40. PRISMA checklist is :

- (A) 27 item checklist given for systemic review and meta-analysis
- (B) 22 item checklist given for systemic review and meta-analysis
- (C) 25 item checklist given for systemic review and meta-analysis
- (D) 32 item checklist given for systemic review and meta-analysis

41. Consider the following about Himachal Pradesh :



- (i) The district of Kinnaur has its western boundary with Tibet
- (ii) The highest peak of Kinnaur is Leo Pargial.
- (iii) The Sutlej Valley is the largest valley of Kinnaur.
- (iv) The marriage custom of enticing away someone's wife does not exist in Kinnaur.

Choose the correct answer from the following codes :

- (A) (i) & (ii)
- (B) (iii) & (iv)
- (C) (iv) & (i)
- (D) (ii) & (iii)

42. Which of the following statements about Himachal Pradesh's River system is correct ?
- (A) It has the Indus River System only
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- (B) It has the Ganga River System only
- (C) It has both (A) & (B) river systems
- (D) It has none of the above two river systems
43. Which of the following districts of Himachal Pradesh had the negative Decennial growth of population from 2001 to 2011 ?
- (A) Lahaul-Spiti (B) Kinnaur
- (C) Mandi (D) Sirmaur
44. The D.P. Sood Commission was appointed in 2011 by the Himachal Pradesh Government :
- (A) To look into electricity facilities in rural areas
- (B) To report on the irregularities in Panchayat System from 2001 to 2010
- (C) To suggest ways and means to strengthen the transport facilities in hilly areas
- (D) To look into benami land deals in state from 2003 to 2011

45. At which of the following places the temple of Kelang Naga is located in Himachal Pradesh ?

(A) At village Chitkul in Kinnaur district

(B) At village Kugti in Chamba district

(C) At Kharra-Pathar in Shimla district

(D) At Sujampur in Hamirpur district

46. Which of the following statements are/is true about the following temples of Kullu district ?

(i) The Bajaura temple in Kullu district is dedicated to Mahadeva

(ii) In Kullu district, there are more than 25 examples of pent roofed type temples

(iii) The sanctuary of Hidimba Devi is built over both the plain and the mountain

(iv) The Hidimba Devi temple has a 24 meters tall wooden shikhar or tower

Choose the correct answer from the following codes :

(A) (i) & (iv)

(B) (ii) & (iii)

(C) (iii) & (iv)

(D) (iv) & (ii)

47. Which of the following is correct about agriculture in Himachal Pradesh upto the year 2020 ?

(A) Agriculture provides direct employment to more the 85 p.c. of the working population of the state

(B) The income from agriculture and allied sectors accounts for nearly 22.1 p.c. of total state domestic product

(C) The Mukhya Mantri Jaivik Kheti Puraskar Yojna was started in the year 2000

(D) Himachal Pradesh has bagged the Krishi Karmanya Puraskars for the consecutive years in 2011-12 to 2016-17.

48. When was the Department of Agriculture separated from the Forest Department in Himachal Pradesh ?

(A) 1949

(B) 1954

(C) 1956

(D) 1952

49. Which of the following is correct about the measures taken for Plant Protection in Himachal Pradesh upto the year 2014-15 ?

- (i) The Pesticide Testing Laboratory was set up at Shimla
- (ii) Two Bio Control Laboratories were set up (one each at Palampur and Mandi)
- (iii) Three Bio Control Laboratories were set up one each at Palampur, Mandi and Nalagarh
- (iv) The plant protection material including equipments are supplied to the SC's/ST's, etc. Families at 40 p.c. cost.

Choose the correct answer from the following codes :

- (A) (iii) & (ii)
- (B) (iv) & (i)
- (C) (i) & (ii)
- (D) (ii) & (iv)

50. Read the following statements about the revenue receipts of the Government of Himachal Pradesh for the year 2021-22 :

- (i) Fiscal Deficit estimate is 4.45 p.c. of the GSDP
- (ii) Fiscal Deficit of 4.45 p.c. is lower than 2020-21 of the GSDP

- (A) (i) only
- (B) (ii) only
- (C) (i) & (ii)
- (D) Neither (A) nor (B)

51. Which of the following districts of Himachal Pradesh has the highest density of population as per 2011 census ?

- (A) Solan (B) Kangra
(C) Hamirpur (D) Bilaspur

52. Which of the following is *correct* about the National Institute of Technology, Hamirpur (Himachal Pradesh) ?

- (i) First it was the Regional Engineering College and established in 1985
(ii) Initially, it was a joint enterprise between the Government of India and the Government of Himachal Pradesh, each contributing the amount in the ratio of 85 and 15 p.c. respectively
(iii) It was upgraded into an NIT in 2002.

Choose the *correct* answer from the following codes :

- (A) (i) only (B) (ii) only
(C) (i) only (D) (i) & (iii)

53. Which of the following three districts of Himachal Pradesh have the largest number of MLA seats ?

- (A) Shimla, Solan and Kangra
(B) Kangra, Mandi and Sirmaur
(C) Kangra, Chamba and Shimla
(D) Kangra, Shimla and Mandi

54. Which of the following statements is correct about the No. of Block Samitis in Himachal Pradesh upto January 2014 ?

| District | No. of Blocks |
|------------|---------------|
| (A) Chamba | 07 |
| (B) Mandi | 09 |
| (C) Solan | 08 |
| (D) Kullu | 04 |

55. Which of the following statements about the participation of women in voting in the Lok Sabha elections is correct in Himachal Pradesh ?

- (i) Women voted more than men in the 2014 Lok Sabha Election
- (ii) The percentage of women voters was less than the men in Shimla constituency in 2014 Lok Sabha Election
- (iii) The percentage of women voters in 2014 Lok Sabha Election in Kangra constituency was less than men.

Choose the correct answer from the following codes :

- (A) (i) & (iii)
- (B) (ii) & (i)
- (C) (iii) & (ii)
- (D) (iii) only

56. Consider the following Rajas of Suket state of Himachal Pradesh :

(i) Dusht Nikandin

(ii) Bhikam Sen

(iii) Rudra Sen

(iv) Bikram Sen

Arrange the above Rajas in Chronological order :

(A) (iv), (ii), (i), (iii)

(B) (iii), (i), (iv), (ii)

(C) (ii), (iv), (iii), (i)

(D) (i), (iii), (ii), (iv)

57. After the merger of the state of Bilaspur with Himachal Pradesh in 1954, the Legislative Assembly's strength was raised to :

(A) 41

(B) 39

(C) 45

(D) 37

58. Of all the districts of Himachal Pradesh, which following district had the highest density of roads in 2013 ?

(A) Kangra

(B) Solan

(C) Hamirpur

(D) Sirmaur

59. Which of the following is *correct* about the National Bamboo Mission, and its activities in Himachal Pradesh ?

(i) This 100 p.c. centrally sponsored scheme is in operation in the state since 2010.

(ii) It encourages the government nurseries alone.

(iii) It aims at raising the improved varieties of Bamboo plantation.

(iv) It conducts workshops for creating its awareness.

Choose the *correct* answer from the following codes :

(A) (i) & (ii)

(B) (ii) & (iii)

(C) (iii) & (i)

(D) (iv) & (iii)

60. The break-up of Himachal Pradesh's medals in Khelo India Youth Games-2022 is :

| | Gold | Silver | Bronze |
|-----|------|--------|--------|
| (A) | 2 | 4 | 3 |
| (B) | 3 | 2 | 1 |
| (C) | 1 | 6 | 4 |
| (D) | 5 | 3 | 6 |

61. Which of the following is correct about the Boundary Commissions formed under Sir Cyril Radcliff in 1947, for delimitations of Boundaries of Punjab and Bengal ?

- (i) Cyril had great experience of India.
- (ii) The Commissions of Punjab and Bengal consisted of two Muslim and two non-Muslim judges in each case.
- (iii) In both the cases, Pakistan got comparatively small territories than India.
- (iv) Cyril was given a very short span of time for drawing the international boundary.

Choose the correct answer from the following codes :

- (A) (i) & (ii)
- (B) (ii) & (iii)
- (C) (iv) & (ii)
- (D) (iii) & (iv)

62. Which of the following states of India had implemented the Uniform Civil Code in 2022 ?

- (A) Uttarakhand
- (B) Goa
- (C) Gujarat
- (D) Karnataka

63. Where does the Union Budget- 2023-24 propose to keep the targeted Fiscal Deficit by 2025-26 ?
- (A) 5.7 p.c. (B) 3.8 p.c.
(C) 2.1 p.c. (D) Below 4.5 p.c.
64. Which of the following Indian film bagged the 2023 Oscar Academy Award for the best documentary story ?
- (A) The spectacular wildlife
(B) The elephants whisper
(C) The elephant whisperers
(D) The whisper of lion and elephant
65. Which of the following women is the First Women Officer to be appointed at the Siachen Glacier in 2023 ?
- (A) Captain Shiva Chouhan
(B) Captain Sunita Thakur
(C) Captain Payal Verma
(D) Captain Rita Kumar

66. The Prime Minister of New Zealand, who resigned in 2003, was :

- (A) Emanuel Macron (B) Anthony Albanese
(C) Alexander Paul (D) Jacinda Ardern

67. Which of the following European Countries has become the latest member of North Atlantic Treaty Organization (NATO) in April 2023 ?

- (A) Sweden (B) Finland
(C) Norway (D) Hungary

68. The following is a list of some countries, with the total medals they won in the Tokyo Olympics-2020. Find out the country, whose medals are not given correctly :

| Country | Total Medals |
|-----------|--------------|
| (A) China | 85 |
| (B) Japan | 58 |
| (C) UK | 65 |
| (D) USA | 113 |

69. Which of the following is *correct* about the United Nations Organization (UNO) ?

- (i) It has 193 members presently
- (ii) The latest member to join it in 2015 is Sudan
- (iii) Almost all its members (except the permanent) have become the non-permanent members
- (iv) The International Court of Justice has 15 Judges

Choose the *correct* answer from the following codes :

- (A) (ii) & (iii)
- (B) (i) & (ii)
- (C) (iv) & (i)
- (D) (iii) & (iv)

70. Match the following authors with their books, written in 2022 :

| Author | Book |
|-------------------------|------------------|
| (i) George Saunders | Nights of Plague |
| (ii) Orhan Pamuk | Liberation Day |
| (iii) Jean Chen Ho | Fiona and Jane |
| (iv) No Violet Bulawayo | Glory |

Choose the *correct* answer from the codes given below :

- (A) (i) & (iv)
- (B) (ii) & (i)
- (C) (iii) & (ii)
- (D) (iv) & (iii)

71. Which drug administration leads to folic acid deficiency ?
- (A) Isoniazid (B) Phenytoin
(C) Chloramphenicol (D) Streptomycin
72. Clotting time increase is seen in all, *except* :
- (A) Haemophilia
(B) Von Willebrand's disease
(C) Patients on anticoagulant therapy
(D) Patients with alcoholic cirrhosis of liver
73. Cyclo-oxygenase pathway of arachidonic acid metabolism give rise to all, *except* :
- (A) Leukotrienes (B) Prostacyclins
(C) Thromboxane (D) Prostaglandin
74. One of the following is the most reliable clinical endpoint to indicate adequate atropinisation in organophosphate poisoning :
- (A) Pupillary dilatation
(B) Control of diarrhea
(C) Heart rate more than or equal to 100 beats/min
(D) Pulmonary secretions absence

75. Which of the following diseases has a strong association with generalized hyper-cementosis ?

(A) Rheumatic fever

(B) Paget's disease

(C) Gardner syndrome

(D) Vit. A deficiency

76. Modiolus is formed by all except :

(A) Orbicularis Oris

(B) Buccinators

(C) Risorius

(D) Mentalis

77. Respiratory quotient of carbohydrate is :

(A) 2

(B) 1

(C) 0.7

(D) 0.8

78. Most common agent used to induce anesthesia :

(A) Propofol

(B) Etomidate

(C) Ketamine

(D) Thiopentone sodium

79. CPITN-E probe is used for and its markings are respectively :

(A) Clinical use, marking at 3.5, 5.5, 8.5, 11.5 mm

(B) Epidemiological survey, marking at 3.5 and 5.5 mm

(C) Clinical use, marking at 3.5 and 5.5 mm

(D) Epidemiological survey, marking at 3.5, 5.5, 8.5, 11.5 mm

Answer
L.A. - 4
Inclusion
Propofol

80. AMPLE history involves, *except* :

- (A) Personal history (B) Past illness
(C) Allergies (D) Events preceding injury

81. Nolla stage which shows 2/3rd root completed :

- (A) Stage 5 (B) Stage 6
(C) Stage 7 (D) Stage 8

82. Extraction sequence in Tweed and Dewel's serial extraction technique, respectively :

- (A) D4C, CD4 (B) CD4, D4C
(C) D4c, cD4 (D) BCD4, CD4

83. Inner Envelope in an envelope of discrepancy introduced by Profitt and Ackerman (1982) denotes :

- (A) Both orthodontic and orthognathic surgery
(B) Both orthopedic and orthodontic treatment
(C) Only orthodontic treatment
(D) Only orthognathic surgery

84. MMP-3 is also known as :

- (A) Gelatinase-A (B) Collagenase 2
(C) Stromelysin-1 (D) Elastase

85. Oral drive theory of thumb sucking was given by :
- (A) Johnson and Larson (1993)
 - (B) Sears and Wise (1982)
 - (C) The Learning theory (1967)
 - (D) Classical Freudian theory (1905)
86. Type 2, in ADA classification of inspection and examination is :
- (A) Screening use tongue depressor, available illumination
 - (B) Limited examination using mirror and explorer, adequate illumination, posterior bitewing
 - (C) Examination using a mirror, illumination, study model, radiograph
 - (D) None of the above
87. How many mg of 2% lidocaine is present in the cartridge ?
- (A) 18 mg
 - (B) 36 mg
 - (C) 180 mg
 - (D) 360 mg
88. In acute radiation syndrome, gastrointestinal symptoms seen at which dose ?
- (A) 4-7 Gy
 - (B) 50 Gy
 - (C) 7-15 Gy
 - (D) 2-4 Gy

89. Shringrix vaccine for VZV is :

- (A) Live attenuated (B) Recombinant VZV antigen
(C) Viral vector vaccine (D) *m*-RNA vaccine

90. Ollendorf's sign seen is in :

- (A) Ehler-Danlos Syndrome (B) Secondary Syphilis
(C) Marfan Syndrome (D) Discoid Lupus Erythematosus

91. Which of the following hard tissue have highest concentration of fluoride ?

- (A) Enamel (B) Dentine
(C) Bone (D) Cementum

92. Classical test for blood-glucose estimation is :

- (A) Glucose-oxidase peroxidase test
(B) Glucose tolerance test
(C) Mucic acid test
(D) Bial's test

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93. Anterior branches of external carotid artery are, *except* :

- (A) Facial artery (B) Superior thyroid artery
(C) Superficial temporal artery (D) Lingual artery

94. Multiple bilateral dentigerous cysts are seen in :

- (A) Goldenhar syndrome
(B) Gorin-Goltz syndrome
(C) Maroteaux-Lamy Syndrome
(D) Steven-Johnson syndrome

95. Disease frequency is measured by :

- (A) Prevalence and incidence (B) Rate and ratio
(C) Proportion and rate (D) Incidence and ratio

96. "Toilet training" lies under which stage of Freud theory ?

- (A) Latency stage (B) Phallic stage
(C) Anal stage (D) Genital stage

97. Development of submandibular gland occurs at :

- (A) 9th week of IUL (B) 6th week of IUL
(C) 2nd week of IUL (D) 12th week of IUL

98. Crest syndrome does not include :

- (A) Calcinosis cutis (B) Raynaud's phenomenon
(C) Syndactyly (D) Telangiectasia

99. Modiolus around corner of mouth formed by all, except :

- (A) Orbicularis oris (B) Zygomaticus Major
(C) Quadratus Labi Superioris (D) Depressor septi

100. Recommended daily allowance of Vit. D in adults :

- (A) 10 mg/day (B) 20 mg/day
(C) 5 mg/day (D) 15 mg/day