

## PHDET-Dental Sciences

- 1) Orphan Annie eyed nuclei is the characteristic histological appearance is seen in
  - a) Papillary carcinoma thyroid
  - b) Follicular carcinoma thyroid
  - c) Medullary carcinoma thyroid
  - d) Hashimoto's thyroiditis
- 2) the following are techniques for the correction of cleft lip, except
  - a) Millard
  - b) Rose-Thompson
  - c) Tennison – Randall
  - d) Von Langenbeck
- 3) Complete obliteration of pulp is seen in all except:
  - a) Type I dentinogenesis imperfect
  - b) Type II dentinogenesis imperfecta
  - c) Type III dentinogenesis imperfecta
  - d) Dentin dysplasia
- 4) Talon's cusp is characteristic of which syndrome
  - a) Edward's syndrome
  - b) Klinefelter's syndrome
  - c) Rubinstein – Taybi syndrome
  - d) Down's syndrome
- 5) Excessive fixing of an X-ray film
  - a) Has no effect on image quality
  - b) Causes brown staining
  - c) Reduces its density
  - d) Increases its density
- 6) Haemoptysis is a characteristic feature of :
  - a) Mitral Stenosis
  - b) Aortic stenosis
  - c) Mitral regurgitation
  - d) Aortic regurgitation
- 7) For Class II div I malocclusion of 14 years old boy, which analysis is indicated to detect the tooth extraction:
  - a) Bolton's analysis
  - b) Pont's analysis
  - c) Peck & Peck analysis
  - d) Ashley & Howe's analysis
- 8) Gjessing canine is made up of :
  - a) 0.18 x 0.25 stainless steel rectangular wire
  - b) 0.16 x 0.22 stainless steel rectangular wire
  - c) 0.17 x 0.25 TMA wire
  - d) 0.15 x 0.22 TMA wire

- 9) Self-inflicted bites are seen in ?
- Lesch-Nyhan syndrome
  - Friese-Maria syndrome
  - Cockayne syndrome
  - Brodie syndrome
- 10) The intercondylar distance can be adjusted in the :
- Hanau H2 articulator
  - Hanau arcon H2 articulator
  - Whipmix articulator
  - Mean value articulator
- 11) Altered cast technique is used in :
- Class III
  - Class II
  - Class III modification II
  - Class IV
- 12) Anti mongoloid slant is a feature of?
- ZMC FRACTURE
  - Leforte I
  - Leforte II
  - Leforte III
- 13) Hypophysectomy of an animal suffering from pancreatic diabetes leads to prompt:
- Worsening in carbohydrate metabolism
  - Improvement in carbohydrate metabolism
  - Crisis in carbohydrate metabolism
  - Does not affect carbohydrate metabolism
- 14) Size of the bite wing film ( ADULT) is:
- 32 x 41 mm
  - 22 x 35 mm
  - 57 x 76 mm
  - 75 x 90 mm
- 15) All of the following cause increase in the heart rate except:
- Halothane
  - Isoflurane
  - Sevoflurane
  - Desflurane
- 16) The pigment which is the tell-tale sign of free radical and lipid peroxidation is
- Haemosiderin
  - Melanin
  - Lipofuscin
  - Bilirubin
- 17) Dissociative sedation and analgesia described by Robert and Rosebaum in 1971 is :
- 5 to 20% N<sub>2</sub>O
  - 20 to 30% N<sub>2</sub>O
  - 30 to 50% N<sub>2</sub>O
  - 50 to 70% N<sub>2</sub>O

- 18) Bjork used the implants for predicting facial growth changes. This approach is called as :
- Longitudinal approach
  - Metric approach
  - Structural approach
  - Computerised prediction
- 19) SVED type of tooth plane is an example of :
- Simple anchorage
  - Reciprocal anchorage
  - Extra-oral anchorage
  - Reinforced anchorage
- 20) What is the minimum distance between the apex of the implant and the inferior alveolar canal when placing implant at the site 19?
- 1 mm
  - 2mm
  - 4mm
  - 6mm
- 21) what index should be used for children only?
- CPITN
  - Df
  - OHI-S
  - PI
- 22) METRONIDAZOLE should be avoided in well managed patient with bipolar disorder who is taking lithium because
- An enhanced hypoglycemic reaction can occur
  - Excess trivalent cationic chelation can occur
  - Lithium toxicity and kidney damage can occur
  - Peptic ulcer and gastro-intestinal inflammation can occur
- 23) Which statement is correct regarding establishment of occlusal plane in the fabrication of complete denture?
- The closest speaking space ( "s" sound ) is used to verify the occlusal plane
  - The curve of spee follows the frontal plane
  - The mandibular first molar is usually at a level of two –thirds of the way up to the retro molar pad.
  - The occlusal plane is parallel to the Frankfurt horizontal plane
- 24) The goal of meta analysis is
- Replicate the results of the single study
  - Replicate the results of multiple studies
  - Summarize the results of single study
  - Summarize the results of multiple studies
- 25) In Moyer's classification of Class II type D malocclusion, there is:
- Orthognathic maxilla and orthognathic mandible
  - Prognathic maxilla and orthognathic mandible
  - Orthognathic maxilla and retrognathic mandible
  - Retrognathic maxilla and retrognathic mandible

26) Lithium disilicate containing crystals in ceramic crown are?

- a) IPS Empress
- b) Captek
- c) Dicor
- d) IPS Empress 2

27) Seroconversion in HIV infection takes place in:

- a) 2 weeks
- b) 4 weeks
- c) 9 weeks
- d) 12 weeks

28) Horizontal rotational tendency is seen in a mandibular Class I RPD to the patient's left is resisted by the denture bases by:

- a) The lingual slope of the left alveolar ridge & the buccal slope of the right alveolar ridge.
- b) The lingual slope of the right alveolar ridge & the buccal slope of the left alveolar ridge.
- c) By the lingual slope of the right and left alveolar ridge.
- d) By the buccal slope of the right and left alveolar ridge.

29) Goldman's vapourizer is used for:

- a) Nitrous oxide
- b) Halothane
- c) Ether
- d) Cyclopropane

30) Presence of Verocay bodies and having predilection for occurrence in the tongue are seen in:

- a) Granular cell myoblastoma
- b) Neurilemmoma
- c) Neurofibroma
- d) Metaplasia

31) In Cicatrical pemphigoid, which antigen is bound by IgG on the epidermal side of the salt split skin technique:

- a) XVII collagen
- b) Epiligrin
- c) Laminin 5
- d) BP antigen 1 & 2

32) Radiation exposure in an IOPA radiograph is?

- a) 200 micro Sieverts
- b) 26 micro Sieverts
- c) 5000 micro Sieverts
- d) 5 micro Sieverts

33) Which of the following is a device of radiation dose measurement?

- a) Storage phosphor plate
- b) Ionization chamber
- c) Coolidge tube
- d) Charged couple devices

34) For the microbiological assay of Vit. B12, the following bacteria is used:

- a) *Corynebacterium diphtheriae*
- b) *Streptococcus pyogenes*
- c) *E. coli*
- d) *Lactobacillus leishmannii*

35) Granisetron, has antiemetic properties because of:

- a) Dopaminergic receptor–blocking actions
- b) Gabamimetic actions
- c) Gaba-inhibitory actions
- d) Serotonin receptor-blocking action

36) Which antitubercular drug will cause transient memory loss?

- a) Ethionamide
- b) INH (ISONIAZID)
- c) Ethambutol
- d) Pyrazinamide

37) When dentist says, “ I cannot fix your teeth if you do not open your mouth wide,” he is employing:

- a) Voice control
- b) Behaviour shaping
- c) Negative reinforcement
- d) Problem ownership

38) Rigafede disease is associated with:

- a) Natal teeth
- b) Permanent incisors
- c) Multiple impacted teeth
- d) Primary incisors

39) The methods of modifying stainless steel crowns for primary teeth were given by :

- a) Garcia-Godoy
- b) Humphrey
- c) Mink and Hill
- d) Michelle and Johnson

40) A radiopaque mixture of 30.4% calcium hydroxide and 40% iodoform commonly used as obturating material for primary teeth ?

- a) Vitapex
- b) Maisto paste
- c) KRI paste
- d) Walkshoff's paste

41) The Denar articulator belongs to :

- a) Class II-A
- b) Class I
- c) Class III-B
- d) Class IV

42) Perel Pontic is:

- a) Ovate
- b) Conical
- c) Hygienic
- d) Modified sanitary

43) Funnel shaped perforations through wing – like retainers to enhance resin retention is:

- a) Maryland bridge
- b) Rochette bridge
- c) Virginia bridge
- d) None of the above

44) The largest cusp of maxillary first molar is the:

- a) Mesiobuccal
- b) Mesiolingual
- c) Distobuccal
- d) Distolingual

45) Most recent form of MTA used as an intracanal irrigant?

- a) MTA-A
- b) MTA-C
- c) MTA-D
- d) MTA-E

46) Triple antibiotic paste contains all except:

- a) Metronidazole
- b) Minocycline
- c) Ciprofloxacin
- d) Amoxycillin

47) 2<sup>nd</sup> generation apex locators are based on:

- a) Frequency
- b) Impedance
- c) Resistance
- d) Capacitance

- 48) Discoloration of tooth in tetracycline therapy is because of formation of:
- Calcium orthophosphate
  - Dicalcium phosphate dehydrate
  - Calcium oxide
  - Tetracalcium phosphate
- 49) What is the approximate stress caused by polymerization shrinkage of composite?
- 1 Mpa
  - 5 Mpa
  - 15 Mpa
  - 30 Mpa
- 50) Linear coefficient of thermal expansion of metal used for metal ceramic restoration range from
- $11.5-12.5 \times 10^{-6}/^{\circ}\text{C}$
  - $10.5-11.5 \times 10^{-6}/^{\circ}\text{C}$
  - $13.5-14.5 \times 10^{-6}/^{\circ}\text{C}$
  - $16.5-17.5 \times 10^{-6}/^{\circ}\text{C}$
51. \_\_\_\_\_ refers to inferring about the whole population based on the observations made on a small part
- Deductive inference
  - Inductive inference
  - Pseudo-inference
  - Objective inference
52. Hypothesis relates \_\_\_\_\_
- Constant to variables
  - Constant to constant
  - Variables to constant
  - Variables to variables
53. Determining the relationship between two or more variables occurs in \_\_\_\_\_
- Correlational research
  - Action research
  - Naturalistic observation
  - Survey research
54. In medical research, IRB is an acronym for which of the following?
- Internal Review Board
  - Institutional Rating Board
  - Institutional Review Board
  - Internal Request Board
55. As per ICMR guidelines research participants must give \_\_\_\_\_ before they can participate in a study?
- Guidelines
  - A commitment
  - Informed consent
  - Private information

56. Ideally, the research participant's identity is not known to the researcher. This is called:
- Anonymity
  - Confidentiality
  - Deception
  - Desensitizing
57. In the process of conducting research "Formulation of Hypothesis" is followed by
- Statement of objectives
  - Analysis of data
  - Selection of research tools
  - Collection of data
58. When each member of a population has an equally likely chance of being selected, this is called:
- A non random sampling method
  - A quota sample
  - A snowball sample
  - An equal probability selection method
59. Questionnaire is a :
- Research method
  - Measurement technique
  - Tool for data collection
  - Data analysis technique
60. Which scale is the simplest form of measurement?
- Nominal
  - Ordinal
  - Interval
  - Ratio
61. Analysis of covariance is:
- A general linear model which blends analysis of variance and regression
  - A statistical technique that can be used to control sequencing effects
  - A statistical technique that substitutes for random assignment to groups
  - Adjusts scores on the independent variable to control for extraneous variables
62. \_\_\_\_\_ is one where all participants participate in all experimental treatment conditions.
- Factorial design
  - Repeated measures design
  - Replicated design
  - Pre test – post test control-group design

63. Which of the following is necessary in obtaining informed consent?
- A description of the statistical analyses that will be carried out
  - A description of the purpose of the research
  - A description of the reliability and validity of test instruments
  - A list of publications that the researcher has had in the last ten years
64. Which one of the following terms is not related to Intellectual Property Rights?
- Copyrights
  - Patents
  - Trade Marks
  - Thesaurus
65. What is the opposite of a variable?
- A constant
  - An extraneous variable
  - A dependent variable
  - A data set
66. A meta-analysis would allow to:
- assess the reliability of the study
  - explore the variations or inconsistencies in the outcomes of a large number of studies
  - replicate many studies
  - identify the antecedents of a behaviour
67. The difference between the mean of a researcher's sample and the mean of the population of the sample is known as the:
- sampling error
  - significance level
  - standard deviation
  - confidence interval
68. What does it mean when research quotes that their findings are "statistically significant" and the statistical level set was at 0.05?
- The extent to which the difference found is simply by chance
  - That 95% of the time the study will be wrong
  - That a difference found is likely to occur by chance 5 or fewer times out of a 100 and suggests that the difference is quite unusual and unlikely to be due to chance but rather a real difference between the groups or conditions
  - That a difference found is likely to occur by chance 5 or fewer times out of a 100 which suggests that the difference is due to chance and so does not represent a real difference between the groups or conditions
69. Research that is done to examine the findings of someone else using the "same variables but different people" is which of the following?
- Exploration
  - Hypothesis
  - Replication
  - Empiricism

70. Which one of the below is true of pre-coding?
- Pre-coding is only employed when self-completion questionnaires are used
  - The data collected are limited by the nature of the categories created by the researcher
  - Pre-coding lends its self to qualitative data analysis
  - Pre-coding provides rich and detailed data
71. Which is the process of gathering evidence supporting inferences based test scores?
- Validation
  - Variation
  - Reliability
  - Prediction
72. The independent variable refers to
- The variable which shows us the effect of the manipulation
  - the variable being manipulated or varied in some way by the researcher
  - a variable which serves as the aim of an experiment
  - the variable which is only used in the control condition
73. In what tense is it suggested that the introduction should be written
- Present
  - Past
  - Future
  - None of the above
74. Interpretative Phenomenological Analysis is
- an early form of discourse analysis
  - closely related to psychoanalytic psychology
  - a relatively new development in qualitative methods
  - a proposed method of qualitative analysis awaiting proper development
75. How would you best judge the fruitfulness of research?
- Fruitfulness of the research is probably best judged in terms of the number of new ideas and insights it offers. This is not easily catalogued; rather it is easy to spot when research lacks novel insight and ideas
  - The fruitfulness of any research can best be judged according to whether or not the results are significant
  - The fruitfulness of any research could be judged by assessing the impact of the research on the public or other researchers
  - All of the above
76. Fundamental Research is otherwise called
- Action Research
  - Survey
  - Pilot study
  - Pure Research

77. Research method is a part of .....
- Problem
  - Experiment
  - Research Techniques
  - Research methodology
78. A review of the literature prior to formulating research questions allows the researcher to do which of the following?
- To become familiar with prior research on the phenomenon of interest
  - To identify potential methodological problems in the research area
  - To develop a list of pertinent problems relative to the phenomenon of interest
  - All of the above
79. UGC Stands for
- University Grants Commission
  - Union Government Commission
  - University Governance Council
  - Union Government Council
80. A Hypothesis which develops while planning the research is
- Null Hypothesis
  - Working Hypothesis
  - Relational Hypothesis
  - Descriptive Hypothesis
81. Bibliography means
- Foot Note
  - Quotations
  - List of Books referred
  - Biography
82. The main objective of ..... study is to acquire knowledge
- Exploratory
  - Descriptive
  - Diagnostic
  - Descriptive and Diagnostic
83. An observation of a dependent variable response prior to any attempt to change this response is known as the
- Flat line
  - Baseline
  - Variance
  - Reverse
84. Questions which allow only a few alternative way of answering is called .....
- Open ended questions
  - Unstructured questions
  - Structural questions
  - Dichotomous questions\

85. Sampling which provides for a known non zero chance of selection is

- a. Probability sampling
- b. Non probability sampling
- c. multiple Choice
- d. analysis

86. Standard Deviation is a measure of

- a) Chance
- b) central tendency
- c) deviation from mean value
- d) none

87. Z score criteria applicable to

- a) Normal Distribution
- b) Skewed deviation
- c) Chi-Square test
- d) Paired T-Test

88. In a study, variation in cholesterol was seen before and after giving a drug. The test which would give its significance is

- a) unpaired t-test
- b) Fischer Test
- c) Paired T-Test
- d) Chi-Square Test

89. While applying chi-square test to contingency table of 4 rows and 4 columns, the degrees of freedom would be:

- a) 1
- b) 4
- c) 9
- d) 8

90. Appropriate statistical method to compare two means is

- a) Chi-Square test
- b) Student's T-test
- c) Odds Ratio
- d) Correlation Coefficient

91. Not true about chi-Square test is :

- a) Tests the significance of difference between two proportions
- b) Tells about presence or absence of an association between two variables
- c) Directly measures the strength of association
- d) Can be used when more than two groups are to be compared

92. The Correlation Coefficient between Smoking & Lung Cancer was found to be 1.4 This indicates:

- a) Weak Correlation
- b) Moderate Correlation
- c) Strong Correlation
- d) Mistake in calculation

93. Test of association between two qualitative variables is done by:

- a) Chi-Square Test
- b) Correlation
- c) Regression
- d) None

94. Mean, Median and Mode are:

- a) Measures of dispersion
- b) Measures association between two variables
- c) Test of significance
- d) Measures of central tendency

95. Association can be measured by all except:

- a) Correlation coefficient
- b) Cronbach's alpha
- c) P value
- d) Odds ratio

96. Not required for chi-square test:

- a) Null Hypothesis
- b) Degrees of freedom
- c) Means in different groups
- d) Proportions in different groups

97. Correlation co-efficient varies between :

- a) 0 to +1
- b) -1 to 0
- c) -1 to +1
- d) +1 to +2

98. Type I sampling error is classified as:

- a) Alpha error
- b) Beta error
- c) Gamma error
- d) Delta error

99. In a standard normal curve, the area between one standard deviation on either side will be:

- a) 68%
- b) 85%
- c) 99.7%
- d) None of the above

100. Normal distribution curves depends on:

- a) Mean and sample size
- b) Range and sample size
- c) Mean and standard deviation
- d) Mean and Median

