

ALU
PROVISIONAL ANSWER KEY (CBRT)

Name of The Post	Professor, Community Medicine/Preventive and Social Medicine, General State Service, Class-1
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Suggestion (S)	

Instructions / સૂચના

Candidate must ensure compliance to the instructions mentioned below, else objections shall not be considered: -

- (1) All the suggestion should be submitted Physically in prescribed format of suggestion sheet.
- (2) Question wise suggestion to be submitted in the prescribed format of Suggestion Sheet published on the website.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key, published herewith on the website. Objections should be sent referring to the Question, Question No. & options of the Master Question Paper.
- (4) Suggestions regarding question nos. and options other than provisional answer key (Master Question Paper) shall not be considered.
- (5) Objections and answers suggested by the candidate should be in compliance with the responses given by him in his answer sheet /response sheet. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted suggestions are differed. For the purpose, the candidate shall attach a copy of his answersheet/ Response sheet along with his application(s).
- (6) Objection for each question shall be made on separate Suggestion sheet. Objection for more than one question in single Suggestion sheet shall not be considered & treated as cancelled.

ઉમેદવારે નીચેની સૂચનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂચન અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં

- (1) ઉમેદવારે વાંધા-સૂચનો નિયત કરવામાં આવેલ વાંધા-સૂચન પત્રકથી રજૂ કરવાના રહેશે.
- (2) ઉમેદવારે પ્રશ્નપ્રમાણે વાંધા-સૂચનો રજૂ કરવા વેબસાઈટ પર પ્રસિધ્ધ થયેલ નિયત વાંધા-સૂચન પત્રકના નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્ર માં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચન ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે જે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપે જે જવાબ સૂચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉત્તરવહીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવહીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચન ધ્યાનમાં લેવાશે નહીં. આ હેતુ માટે, ઉમેદવારે પોતાની અરજી(ઓ) સાથે પોતાની જવાબવહીની એક નકલનું બિડાણ કરવાનું રહેશે.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચન પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

001. Measles virus is a/an _____ cause in the causation of measles disease while low HDL levels are a/an _____ cause in coronary artery disease.
(A) Efficient, Component (B) Component, Necessary
(C) Necessary, Component (D) Sufficient, Efficient
002. Which of the following states in India has an Epidemiological Transition Ratio less than 0.31?
(A) Maharashtra (B) Himachal Pradesh
(C) Karnataka (D) Haryana
003. According to definitions of 'Urban' areas proposed to be used for the Census of India 2021, what is the minimum population density of an urban area (persons per square kilometre)?
(A) 400 per square mile (B) 800 per square mile
(C) 1000 per square mile (D) 1400 per square mile
004. The Constitution of India recommends that the health of the Indian people is the responsibility of the State. This is enunciated in which part of the Constitution?
(A) Part XVI – Special provisions relating to certain classes
(B) Part IV – Directive Principles of State Policy
(C) Part III – Fundamental Rights
(D) Part XI – Relations between the Union and the states
005. Which of the following is not an aspect of the Ottawa Charter for Health Promotion?
(A) Strengthen community action (B) Develop personal skills
(C) Re-orient health education (D) Build healthy public policy
006. The Health Index formulated by the NITI Aayog is composed of _____ domains, _____ sub-domains and _____ indicators.
(A) 3, 5, 24 (B) 5, 7, 29
(C) 3, 7, 29 (D) 5, 7, 24
007. While calculating the Human Development Index of a country, the life expectancy index, education index and the income index are calculated to be 0.85, 0.75 and 0.67 respectively. Calculate the Human Development Index of the country?
(A) 0.75 (B) 0.76
(C) 0.43 (D) 1.00
008. The International Conference on Primary Health Care of 1978 was conducted in which of the following countries?
(A) Uzbekistan (B) Kyrgyzstan
(C) Ukraine (D) Kazakhstan
009. Diagnostic codes under ICD-10 is composed of how many characters?
(A) 2-7 (B) 3-6
(C) 3-7 (D) 2-6
010. Which of the following is the best indicator of the virulence of a disease?
(A) Case fatality rate (B) Proportional mortality rate
(C) Secondary attack rate (D) Disease-specific mortality rate
011. What type of data is temperature measured in the Kelvin scale?
(A) Ordinal (B) Ratio
(C) Continuous (dimensional) (D) Dichotomous

012. A random sample of 300 diastolic blood pressure measurements are taken. Suppose a 99% confidence interval for the population mean diastolic blood pressure is 68 to 73 mm Hg. If a 95% confidence interval is also calculated, then
- (A) The 95% confidence interval will be wider than the 99%.
 - (B) The 95% confidence interval will be narrower than the 99%.
 - (C) 95% and 99% confidence interval will be the same.
 - (D) One cannot make a general statement about whether the 95% confidence interval would be narrower, wider or the same as the 99%.
013. If you were interested in testing for a statistical relationship between taking Vitamin A and acquiring common cold in the population of elementary school students (ie: testing the null hypothesis of no difference in the proportion of acquiring common colds in Vitamin A and placebo groups, versus the alternative of a difference in proportions), the correct statistical test is:
- (A) Two-sample t-test
 - (C) Chi-squared test
 - (B) Ad-hoc test for testing the equality of things
 - (D) Paired t-test
014. Bottles of water have a label stating that the volume is 1 litre. A consumer group suspects the bottles are under filled and plans to conduct a test. A Type I error in this situation would mean:
- (A) The consumer group concludes the bottles have less than 1 litre, when the mean actually is 1 litre.
 - (B) The consumer group does not conclude the bottles have less than 1 litre, when the mean actually is less than 1 litre.
 - (C) The consumer group has evidence that the label is incorrect.
 - (D) None of the above statements can be validly mean a type 1 error
015. Significance testing is based on which of the following principles?
- (A) Falsification
 - (B) Constructivism
 - (C) Verification
 - (D) Evaluation
016. What statistical test would be used with interval or ratio data with multiple dependent variables?
- (A) Wilcoxon
 - (C) MANOVA
 - (B) Repeated measures ANOVA
 - (D) Related samples t-tests
017. The distribution of test statistic used in sign test is
- (A) Normal
 - (B) Binomial
 - (C) Gamma
 - (D) Poisson
018. Which of the following is not a characteristic of quota sampling?
- (A) The random selection of units makes it possible to calculate the standard error
 - (B) The researcher chooses whom to approach and so might introduce bias
 - (C) The sample is subdivided into groups from which the researcher must obtain a certain number of responses
 - (D) Those who are available to be surveyed in public places are unlikely to be a representative sample.

019. Which of the following statements regarding p-value are true?
- (A) The probability that the null hypothesis is true.
 - (B) The probability that the alternative hypothesis is true.
 - (C) The probability of obtaining the observed or more extreme results if the alternative hypothesis is true.
 - (D) The probability of obtaining the observed results or results which are more extreme if the null hypothesis is true.
020. Consider a random sample of 100 females and 100 males. Suppose 15 of the females are left-handed and 12 of the males are left-handed. What is the estimated difference between population proportions of females and males who are left-handed (females “ males)? Select the choice with the correct notation and numerical value.
- (A) $p_1 - p_2 = 3$
 - (B) $p_1 - p_2 = 0.03$
 - (C) $p_1^{\wedge} - p_2^{\wedge} = 3$
 - (D) $p_1^{\wedge} - p_2^{\wedge} = 0.03$
021. Disability Adjusted Life Year (DALY) expresses the:
- (A) Extent of disability in the population
 - (B) Expectation of life free of disability
 - (C) Years of life lost to premature death
 - (D) Lost year of life due to premature death and disability
022. A test which produces similar results when repeated, but values obtained are not close to actual/true value, is:
- (A) Precise but inaccurate
 - (B) Precise and accurate
 - (C) Imprecise and accurate
 - (D) Imprecise and inaccurate
023. The parameters of sensitivity and specificity are used for assessing:
- (A) Criterion validity
 - (B) Construct validity
 - (C) Discriminant validity
 - (D) Content validity
024. The minimum values for life expectancy and per capita gross national income are
- (A) 20 years and \$185
 - (B) 35 years and \$125
 - (C) 25 years and \$150
 - (D) 20 years and \$163
025. All the following assumptions need to be checked before performing a multivariable analysis, Except?
- (A) Assumption of linearity
 - (B) Assumption of nearly normal residuals
 - (C) Assumption of homoscedasticity
 - (D) Assumption of independence
026. The publication bias in meta-analysis can be assessed using a
- (A) Forest plot
 - (B) Hedge’s adjusted G plot
 - (C) Funnel plot
 - (D) Q-Q plot
027. Which of the following is an example of prevention paradox?
- (A) Chlorination of drinking water
 - (B) Immunization
 - (C) Wearing seat belts
 - (D) Quarantine
028. What is Whipple’s index used for?
- (A) Infectious disease transmission and herd immunity
 - (B) Preference/avoidance of a terminal digit in age-reporting
 - (C) Determine the criterion validity of a test variable
 - (D) Measuring the impact of a disease/injury in a population

029. Effect of a country's income inequality on individual level self-reported health is an example of
 (A) Threshold effect (B) Cross level effect
 (C) Cross population effect (D) Barrier effect
030. The Janani Suraksha Yojana subsidizes the cost of Caesarian section or the management of obstetric complication up to
 (A) 2000 (B) 1000
 (C) 1500 (D) 3000
031. WHO recommends insertion of Copper IUCD within how many days of menstruation?
 (A) 14 days (B) 17 days
 (C) 21 days (D) 12 days
032. Essential new born care package include all the following except
 (A) Immunization (B) Prevention of hypothermia
 (C) Prevention of infections (D) Referral of sick new born
033. An offence committed by a child comes under the children act. In which year was the act passed
 (A) 1963 (B) 1960
 (C) 1971 (D) 1961
034. Low stationary stage in the demographic cycle includes all of the following except
 (A) Low birth rate (B) Low death rate
 (C) Population stationary (D) None of the above
035. One of the largest urban agglomerations (UAS) in India according to 2011 census
 (A) Delhi (B) Banglore
 (C) Goa (D) Hyderabad
036. Post verbal death autopsy has been merged with SRS from the year
 (A) 1998 (B) 1999
 (C) 2000 (D) 2001
037. National sample survey organization contains the following divisions except
 (A) Survey design and research (B) Study design and sampling
 (C) Data processing (D) Economic analysis
038. Child tracking is done up to what age
 (A) 0-36 months (B) 0-72 months
 (C) 0-48 months (D) 0-60 months
039. Growth chart was first designed by
 (A) David Morley (B) Denver
 (C) Gomez (D) WHO
040. Which of the following is false regarding contraceptives?
 (A) Skyla is a new IUC, which is smaller than Mirena suitable for young and nulliparous women
 (B) Recently Mirena IUC if used in young and nulliparous women by reducing its diameter of insertion tube
 (C) The age of husband should not be less than 30 and more than 60 years for sterilization
 (D) The age of wife should not be less than 20 and more than 45 years for sterilization

041. Which of the following is not included in Picker's Eight principles of patient care?
(A) Respect to patient's preference (B) Coordination and integration of care
(C) Financial assistance to patient (D) Involvement of family and friends
042. Which among the following sentence is true regarding growth chart?
(A) BMI can be used to assess overweight in children over age of 12 months
(B) Ideal growth for all children is described as all growth measures tracking along the 50th percentile
(C) Regular growth assessment is only recommended for children known to have growth problems
(D) Weight, length and head circumference of an infant born before 37 weeks completed gestation should be plotted using corrected age until around 2 years of age
043. The WHO growth charts are based on longitudinal data from the multi-centre growth reference study. The eligibility criteria for the study excluded
(A) Infants who are predominantly exclusively breast fed until at least 4 month of age
(B) Infants of smoking mother
(C) Healthy infants born at term
(D) Infants introduced to solid by 6 months
044. At any given age, 70% of children in the population can be expected to grow
(A) Anywhere between the 3rd to 97th percentile
(B) Anywhere between the 15th and 85th percentile
(C) Around 50th percentile
(D) Anywhere on the growth chart
045. Which among the following statements is false regarding facilities need for a first referral unit according to RCH phase II
(A) A minimum bed strength of the 30 to 40 (B) A fully functional operation theatre
(C) Blood storage facility (D) A functional laboratory
046. Recently MCH services include the coverage and efficiency towards high risk pregnancy. The assessment of degree of risk factors is based on all other except
(A) Treatability (B) Cost effect
(C) Community attitude (D) Previous high risk pregnancy
047. The following type of dust leads to extrinsic allergic pneumonitis except
(A) Mouldy hay (B) Wood pulp
(C) Mushroom compost (D) Metallic dust
048. The following diseases are notifiable under factories act except
(A) Toxic anemia (B) Poisoning by halogen or its derivatives
(C) Arsenic poisoning and its sequelae (D) Aluminium poisoning
049. Under ESI act 1984 the term wages includes
(A) Gratuity payable on discharge
(B) Any contribution paid by the employee to any pension fund or provident fund
(C) Remuneration paid or payable to employee in cash
(D) All the above

050. Which of the following statement is false about occupational cancer?
 (A) Age incidence is earlier as compared to the general population for the same cancer
 (B) The localization of the tumour is remarkably constant for a particular industry
 (C) Most common occupational cancer is bronchogenic carcinoma
 (D) Onset of cancer can occur ever after the person has left the industry
051. All of the following belong to 4 P's with respect to occupational dermatitis except
 (A) Pre selection check up (B) Post selection check up
 (C) Protection (D) Periodic inspection
052. Maximum work hours for a person including over time under the Factories act is
 (A) 48 hours (B) 58 hours
 (C) 60 hours (D) 100 hours
053. Under the ESI act which of the following is not given as a cash benefit?
 (A) Sickness benefit (B) Medical benefit
 (C) Maternity benefit (D) Dependent benefit
054. All are the features of Silicotuberculosis except
 (A) High sputum AFB positive (B) Children of such cases don't get the diseases
 (C) Impairment of the total lung (D) Nodular fibrosis
055. Maselow's hierarchy of needs include all except
 (A) Self actualization (B) Physiological needs
 (C) Self esteem (D) Mental needs
056. Which of the following is not an approach to health education?
 (A) Regulatory approach (B) service approach
 (C) Health awareness approach (D) Primary care approach
057. In which model of health education does the term internalization occurs?
 (A) Medical model (B) Motivational model
 (C) Socio environmental model (D) Service model
058. Which of the following is not a principle of health education?
 (A) Participation (B) Motivation
 (C) Setting an example (D) Drawing conclusions
059. Which of the following statements about health education is false
 (A) Develops a reflective behavior (B) Appeals to emotion
 (C) Behavior centered (D) Actively acquired
060. All are true about Delphi technique except
 (A) It is based on consensus method
 (B) Ranking of responses done by experts
 (C) Its generates questionnaire for health research
 (D) Nominal group technique is a Delphi technique
061. An objective in a research study is all except
 (A) Implies the goal of the study (B) A statement of purpose
 (C) Is topic specific (D) Must be fulfilled at the end of the study

062. Which of the following statements is false regarding descriptive study?
 (A) A preformed hypothesis of association is present
 (B) Done in single group of subject only
 (C) Prevalence of a disease can be measured
 (D) Cross sectional study is a descriptive study
063. Minimum duration of retaining medical records of patients of non-medico legal cases according to the Medical Council of India is
 (A) 3 years (B) 2 years
 (C) 4 years (D) 10 years
064. Privileged communication can be applied by a doctor in the event of all except
 (A) Patient has suicidal ideation
 (B) HIV positive patient marrying a HIV negative girl
 (C) Court of law
 (D) Illness of a child to his or her uncle
065. STROBE statement in research studies is used for
 (A) Good reporting of study (B) Questionnaire development tool
 (C) Statistical conclusion (D) Operational research
066. Professional death sentence of registered medical practitioner is covered under which section of MCI act 2002?
 (A) Section 82 of IMC regulation 2002 (B) Section 72 of IMC regulation 2002
 (C) Section 87 of IMC regulation 2002 (D) Section 89 of IMC regulation 2002
067. The following are infamous conduct for a registered medical practitioner except
 (A) Adultery (B) Issuing fake certificate
 (C) Illegal abortion (D) Displaying consultation fees in the hospital
068. Research done with the aim of finding a solution for an immediate problem facing a society is termed as
 (A) Applied research (B) Fundamental research
 (C) Basic research (D) Conceptual research
069. Which research strategy used for the assessment of community needs?
 (A) Descriptive study (B) Case control study
 (C) Cohort study (D) Retrospective cohort study
070. What is Zotero?
 (A) Reference management software (B) Online scientific database
 (C) Statistical software (D) Style of writing
071. Expand MeSH in context of literature search
 (A) Medical subject headings (B) Medical standard headings
 (C) Medical statistics in health (D) Medical software in health
072. The comprehensive study and interpretation of literature that addresses a specific topic is defined as
 (A) Literature review (B) Literature search
 (C) Protocol (D) Qualitative analysis

073. What does “R” in “ SMART” characterizing an objective of a study stands for
 (A) Relevant (B) Repeatable
 (C) Recent (D) Reasoning
074. All are true of informed consent from participants except
 (A) Voluntary (B) Can withdraw at any time of study
 (C) Written document only (D) Information given in English language
075. Confidentiality of individual participants can be disclosed in
 (A) Court of law (B) Public health threat
 (C) Serious drug reaction (D) All of the above
076. All are true about Institutional Human Ethics Committee except
 (A) Atleast 5 members must be present (B) Chairman belongs to the host institution
 (C) Legal expert must be present (D) One member from patient group is optional
077. Community X has 30% population who are below 15 years of age and 10% of population over 65 years. The dependency ratio would be
 (A) 20.4 % (B) 40%
 (C) 66.6 % (D) 60.6%
078. India’s population growth rate ratio is
 (A) 2.9 (B) 1.2
 (C) 32.7 (D) 4
079. The population of a country is one lakh in the year 2000. The annual growth rate is 2%. The population of the country will double by,
 (A) 2025 (B) 2035
 (C) 2045 (D) 2050
080. If birth rate is 42 and death rate is 31 then the current annual growth rate is
 (A) 11% (B) 1.1 %
 (C) 0.25 % (D) 2.5 %
081. Which of the following year in the history of demography of India is known as ‘The year of the great divide?’
 (A) 1881 (B) 1901
 (C) 1910 (D) 1921
082. Eligible couple in India per 1000 population is
 (A) 140 to 170 (B) 100 to 150
 (C) 150 to 180 (D) 200 to 250
083. The risk of genetic disease in consanguineous marriage between first cousins is
 (A) 1 to 2 (B) 4 to 8
 (C) 8 to 10 (D) 12 to 14
084. In a village with 180 eligible couple, family planning data of contraceptive method is vasectomy – 15, Tubectomy – 15, IUD users- 8, Oral Pill Users- 15 and Condom users – 7. What is the couple protection rate in the village?
 (A) 60 % (B) 33%
 (C) 25 % (D) 10 %

085. The common causes of low birth weight are all except
(A) Short maternal stature (B) High parity
(C) Elderly primi (D) Anaemia
086. A patient present with pulmonary tuberculosis and was on anti-tuberculous drug. On prolonged use of isoniazid, patient will develop which of the following Vitamins?
(A) Thiamine (B) Niacin
(C) Pyridoxime (D) Pantothenic acid
087. White line of Frenkel is characteristic diagnostic feature of
(A) Vitamin B₁₂ deficiency (B) Vitamin C deficiency
(C) Niacin deficiency (D) Riboflavin deficiency
088. What is the action taken by MCI on a medical practitioner who receives gift worth (Rs.5000-10000) from a pharmaceutical company
(A) No action
(B) Censure
(C) Removal from State Medical Register for 3 months
(D) Removal from Indian Medical Council for 6 months
089. Which one of the following is considered plagiarism?
(A) Unintentional copying without acknowledging
(B) Quotation marks on the copied text
(C) Intentional copying with acknowledge
(D) Parenthetical citation
090. Duties of physician to their patients are dealt in which chapter of MCI act 2002?
(A) Chapter 2 (B) Chapter 1
(C) Chapter 4 (D) Chapter 5
091. The best graphical representation to depict proportions is
(A) Pie chart (B) Bar chart
(C) Histogram (D) Scatter gram
092. All are true of Vancouver style of citing and referring except
(A) Developed by US National library of medicine
(B) Recommended style for post graduate dissertation
(C) Superscript number comes before the full stop
(D) References are listed in numerical order
093. A researcher records the age groups of patients with schizophrenia. What type of variable is being recorded?
(A) Discrete and qualitative (B) Continuous and quantitative
(C) Nominal and categorical (D) Ordinal and categorical
094. All are true regarding personal interview method of data collection except
(A) Expensive (B) Time consuming
(C) Bias (D) Less information obtained
095. Which one of the following is a projected pictorial technique of data collection
(A) Schedules (B) Word association test
(C) Psychogalvanometer (D) Thematic apperception test

096. All are true about simple random sampling except
 (A) Also known as chance sampling
 (B) Each item has equal probability of being selected
 (C) Best technique of selecting sample
 (D) Relatively easy to perform
097. What is the appropriate measure of central tendency in ordinal scale
 (A) Arithmetic mean (B) Median
 (C) Mode (D) Geometric mean
098. All are true regarding validity of test except
 (A) Most critical criteria
 (B) Indicates degree of measurement
 (C) Show the accuracy of test
 (D) External validity indicates generalizability to population
099. Likert scale was developed by which scale construction technique
 (A) Consensus approach (B) Item analysis approach
 (C) Cumulative scales (D) Factor scales
100. The number of class intervals in a set of data (N) using Sturges formulas is given by
 (A) $1 + 3.322 \log_{10} N$ (B) $1 - 3.322 \log_{10} N$
 (C) $\frac{\log_{10} N}{1 + 3.322}$ (D) $\frac{\log_{10} N}{1 - 3.322}$
101. Which is a common feature of iodine deficiency
 (A) Decreased resistance to fatigue (B) Stunting
 (C) Behavioural changes (D) Effect on psychological behaviour
102. Hartnup disease is a genetic transport defect of amino acids leading to _____ dependency
 (A) Thiamine (B) Pyridoxine
 (C) Niocin (D) Folic acid
103. In India the recommended level of fluorides in drinking water is
 (A) 0.5-0.8 $\mu\text{g/L}$ (B) 0.2-0.4 $\mu\text{g/L}$
 (C) 1-2 $\mu\text{g/L}$ (D) 3-12 $\mu\text{g/L}$
104. Forbe disease is due to the Enzyme deficiency of
 (A) Amylo1-6 - glucosidase (B) α 1,4 glucan 6 - glycosyl transferase
 (C) Muscle phosphofructokinase (D) Muscle phosphorylase
105. Which poisoning causes painful Itai Itai disease which is reported from Japan
 (A) Cabalt (B) Cadmium
 (C) Diethylstilbestrol (D) Barium
106. Angiokeratoma corporis diffusum universal is also called as
 (A) Taysachs disease (B) Refsums disease
 (C) Gaucher disease (D) Fabry's disease
107. Eggs are rich source of all nutrients except
 (A) Vitamin A (B) Vitamin B
 (C) Iron (D) Vitamin C

108. What is the contraindication for breastfeeding?
 (A) Illness of mother (B) Tuberculosis
 (C) Inverted nipples (D) HIV
109. Nalgonda technique used for
 (A) Chlorination of water (B) Defluoridation of water
 (C) Ozonation of water (D) Reverse osmosis treatment for water
110. The extent to which specific health care treatment, service, procedure, program or other interventions does what it is intended to do when used in a community dwelling population is termed as
 (A) Efficacy (B) Effectiveness
 (C) Effect modification (D) Efficiency
111. Rockefeller foundation is established in the year
 (A) 1911 (B) 1912
 (C) 1913 (D) 1914
112. The current priorities of UNICEF are all except
 (A) Basic education (B) HIV/ AIDS children
 (C) Policy Advocacy and partnerships (D) Management development
113. At present how many members are there in World bank?
 (A) 186 (B) 188
 (C) 189 (D) 190
114. The Rotary International was started by
 (A) Paul P Harris (B) Melvin Jones
 (C) Rosa Amenda (D) Jean Henry Dunant
115. Japan International Corporation Agency is involved in all of the following the fields except
 (A) Transport (B) Highways
 (C) Agriculture (D) Milk hygiene
116. The first manifestation of heat exhaustion is
 (A) Syncope (B) Hyper ventilation
 (C) Fits (D) Profuse sweating
117. 'Hunting phenomenon' in cold exposure is
 (A) Among various warm blood animals, the smaller or lesser massive creatures are more commonly found in warmer climates
 (B) Fingers immersed in cold water below 10° C show initial intense vasoconstriction followed by a later period of vasodilatation
 (C) The combination of ambient low temperature and wind movement
 (D) None the above
118. The diet recommended at high altitudes is
 (A) High carbohydrate diet (B) High fat diet
 (C) High protein diet (D) Low carbohydrate & high protein diet
119. Permissible value in the ambient air for Ozone is
 (A) 100 µg / m³ 8 hours mean (B) 1000 µg / m³ 8 hours mean
 (C) 100 µg / m³ 4 hours mean (D) 1000µg / m³ 4 hours mean

120. Dwarf tape worm is
 (A) **Hymenolepis spp** (B) *Taenia saginata*
 (C) *Taenia solium* (D) *Diphyllobothrium latum*
121. According to 'Ambient noise standard and guidelines in India' the acceptable noise levels for silence zone during day is
 (A) 55 dB (B) **50 dB**
 (C) 45 dB (D) 40 dB
122. The 'let-go' threshold occurs at currents of
 (A) 0.2 – 4mA (B) **6 – 9 mA**
 (C) 15 – 20mA (D) 56 –120 mA
123. Air velocity is measured by
 (A) Anemometer (B) Kata thermometer
 (C) Whirling psychrometer (D) **Both (A) and (B)**
124. In Nano filtration, the pore size is
 (A) 0.0001 – 0.001 μm (B) **0.001 – 0.01 μm**
 (C) 0.01 – 0.1 μm (D) 0.002 – 0.03 μm
125. The following statements are true regarding *Sarcoptes scabiei* except
 (A) The female mite is larger than the male mite
 (B) The parasites are less numerous in chronic cases
 (C) **Egg are found only from the terminal part of the fresh burrow**
 (D) Applying mineral oil to the skin helps organism to adhere better to needle blade
126. Which of the following pair is wrongly matched : Disease – Vector or intermediate host
 (A) Epidemic typhus – *Pediculus humanus*
 (B) Scrub typhus – *Leptotrombidium spp*
 (C) **Relapsing fever – *Dermacentor spp***
 (D) Plague – *Xenopsylla cheopis*
127. 'Bilious remittent fever' is rare but serious complication of
 (A) **Falciparum malaria** (B) Vivax Malaria
 (C) Quartan Malaria (D) Ovale Malaria
128. Radiation doses is measured in
 (A) **Sievert** (B) Becquerel (Bq)
 (C) Tesla (D) mAs
129. All are true regarding Indira Awas Yojana except
 (A) Cash subsidy for constructing dwellings
 (B) Provided only to rural BPL family
 (C) **Beneficiaries selected by Gram Panchayat**
 (D) Present per unit assistance is Rs.25000/- in plain areas
130. By Vermicompost method, organic waste are converted into compost within
 (A) 4- 6 months (B) 4-6 Weeks
 (C) 2-3 Weeks (D) **40 - 45 Days**

131. Basic minimum illumination for satisfactory vision is
 (A) 15- 20 foot candles (B) 20-25 foot candles
 (C) 10-15 foot candles (D) None the above
132. WHO guidelines for swimming pool are all except
 (A) Residual chlorine level should be 1 PPM
 (B) Ideal pH maintained between 7.4 and 7.8
 (C) Minimum area per swimmer is 5m³
 (D) Water should be recycled every 6 hours
133. Number of positive containers per 1000 human population
 (A) Container index (B) Stegomyia index
 (C) Breteau index (D) House index
134. All are natural enemies of mosquitoes except
 (A) *Poecilia reticulata* (B) *Pagrus major*
 (C) *Toxorhynchites* (D) *Romanomermis culicivorax*
135. Middle East respiratory syndrome was first reported in
 (A) 2010 (B) 2011
 (C) 2012 (D) 2013
136. All of the following are true regarding urban malaria scheme except
 (A) Aims at reduction in transmission and morbidity
 (B) Modified plan of operation designed to tackle malaria situation in urban only
 (C) Aims to prevent death due to malaria
 (D) As per the norms the town should have a minimum population of 50000
137. 'Kdr Type' mutation is found in all except
 (A) *Anopheles gambiae* (B) *Anopheles stephensi*
 (C) *Anopheles sacharon* (D) *Anopheles sudaicus*
138. 'Healthy environment for children' is the WHD theme of
 (A) 2003 (B) 2004
 (C) 2005 (D) 2006
139. National pollution prevention day is
 (A) June 5th (B) July 11th
 (C) December 2nd (D) December 3rd
140. World Health Day theme for the year 2010 is
 (A) Save lives make hospitals safe in emergencies
 (B) Good health adds life to years
 (C) Urbanization and health makes cities
 (D) Healthy heart beat – healthy blood pressure
141. National malaria control programme was launched on
 (A) 1977 (B) 1976
 (C) 1961 (D) 1953
142. Buggy creek virus also known as
 (A) Zika virus (B) Chikungunya virus
 (C) Corona virus (D) Ebola virus

143. Size of the opening in the mosquito net should not exceed
(A) 0.00475 inches diameters (B) 0.0475 inches diameters
(C) 0.0574 inches diameters (D) 0.00574 inches diameters
144. Before which of the following treatment regimens is mental health evaluation not necessary?
(A) Shorter MDR-TB regimen
(B) Regimen for H-mono/poly DR TB
(C) Conventional MDR-TB regimen
(D) Regimen for RR-TB with FQ/SLI ± Lzd resistance (without newer drugs)
145. A sub-district hospital winning the Kayakalp Award will be given an amount of:
(A) Rs. 20 lakhs (B) Rs. 15 lakhs
(C) Rs. 50 lakhs (D) Rs. 10 lakhs
146. Under the Direct Benefit Transfer system of the RNTCP, how much is a private provider who has notified and correctly managed a case of DR-TB over a period of 24 months eligible to receive?"
(A) Rs. 6750 (B) Rs. 2750
(C) Rs. 750 (D) Rs. 5500
147. Which of the following is not a core intervention under the Anemia Mukht Bharat Strategy?
(A) Increasing awareness and screening about non-nutritional causes of anemia
(B) Delayed cord clamping after delivery
(C) Using digital methods to improve testing and treatment
(D) Milk bank initiative
148. Under the LaQshya, each Rapid Improvement Event cycle lasts for a duration of how many days?
(A) 1 month (B) 3 months
(C) 2 months (D) 45 days
149. Who defined scientific research as a 'Systematic controlled empirical and critical investigation of hypothetical proposition about the presumed relations among the national phenomenon'?
(A) Theobald smith (B) Redman & Mory
(C) FN Kerlinger (D) Clifford woody
150. First step in the planning of a research is
(A) Prioritising problem (B) Problem identification
(C) Resource availability (D) Hypothesis
151. In which process there is voting and ranking of list of ideas for a research topic?
(A) Nominal group technique (B) Focus group discussion
(C) Brain storming (D) Random allocation
152. Which one of the following is an electronic bibliographic database?
(A) MEDLINE (B) EMBASE
(C) Cochrane library (D) Index medicus
153. The marketing of a drug is permitted after which phase of the Clinical Trial?
(A) Phase I (B) Phase II
(C) Phase III (D) Phase IV

175. Following are true of field trials
- (A) They differ from clinical trials in that subjects are focused on the initial occurrence of disease and not by prevalence of disease
 - (B) Require large number of subjects than clinical trials
 - (C) Application of analogous reasoning is not done in field trials
 - (D) Community prevention trials is not an extension of field trials
176. Regarding outcomes research which one of the following is false
- (A) Outcome research are studies comparing the effect of two or more health care interventions or modalities
 - (B) They use data from large data sets derived from large populations
 - (C) Issue of representativeness or generalization is minimised
 - (D) Sample size is not a problem when small subgroups are examined
177. Source of exposure data include the following
- (A) Interviews
 - (B) Physician records
 - (C) Disease register records
 - (D) All of the above
178. National research council 1983 listed four steps in the process of risk assessment except
- (A) Hazard identified
 - (B) Dose-response assessment
 - (C) Risk minimisation
 - (D) Risk characteristics
179. Assume that early detection of disease through screening improves prognosis. In order for a social problem to be most effective at which point in the natural history in the diagram must the critical point be?
- (A) Between biological onset of disease and the earliest possible detection of the disease by screening
 - (B) Between earliest possible detection of the disease by screening and the usual point of diagnosis
 - (C) Between the Biological onset of disease and the usual time of diagnosis
 - (D) Any time between the biological onset of disease and the and the usual time of death by the disease
180. Bivalve organisms are animal sentinels for
- (A) Soil contamination
 - (B) Plant contamination
 - (C) Water contamination
 - (D) Air contamination
181. Small area analysis is used for
- (A) Evaluating quality of care
 - (B) Managing core organisation
 - (C) Determining which diagnostics need standardization
 - (D) Review of disease specific treatment criteria
182. Which of the following are true for a screening test?
- (A) Done on apparently healthy individuals
 - (B) Applied on individual
 - (C) Tests are based on one criterion
 - (D) Both (A) and (C)
183. Which of the following is an example of prospective screening
- (A) PAP smear on 40-year old females
 - (B) Neonatal screening for hypothyroidism
 - (C) HIV screening during Antenatal visits
 - (D) Screening for urine sugar in a 48-year old male

184. A tertiary care hospital that takes in the sickest patients also reports the highest mortality rates. Misrepresentation of this high mortality scenario can be prevented by
 (A) Case mixed-adjusted mortality (B) Quality assurance
 (C) CMS quality medical care (D) Build healthy public policy
185. An example of multiphasic screening is
 (A) Chest X-ray for TB in a large population (B) Annual health check-ups
 (C) PAP smear in a woman above 40 years (D) Random blood sugar during antenatal visits
186. The attribute of a screening test to yield the same reading when repeated under the same condition is termed as
 (A) Acceptability (B) Reliability
 (C) Sensitivity (D) Predictive value
187. Run chart is used to?
 (A) Depicting the workflow in a process (B) Variation in processes over time
 (C) Plot random fluctuations (D) None of the above
188. All of the following are true regarding point source epidemic except
 (A) No secondary waves
 (B) Clustering of cases within a short period of time
 (C) Only due to an infectious agent
 (D) All cases usually develop within one incubation period
189. The preliminary observations made by Burkitt in Africa eventually proved that the Epstein Barr virus is an etiological factor for Burkitt Lymphoma. The study by Burkitt is an example of
 (A) Descriptive study (B) Analytical study
 (C) Non randomized study (D) Retrospective cohort study
190. A Ph.D scholar is preparing to do a prospective cohort study for association of H.pylori in Inflammatory bowel disease from the gastroenterology wards. Which of the following must he/she do?
 (A) Enrol all patients taking proton pump inhibitors
 (B) Enrol all patients on whom endoscopy was done
 (C) Exclude all patients with diagnosis of inflammatory bowel disease
 (D) Exclude all patients with positive urea breath test for H.pylori
191. The prevalence of hyperparathyroidism in a population is 2%. Suppose serum calcium test had 90% sensitivity and 95% specificity in diagnosis, then the posterior probability is
 (A) 17% (B) 27%
 (C) 13% (D) 5%
192. When the incidence of a disease in adopted children is studied and compared with the incidence in biological relatives and adoptive relatives, all of the following are relevant concerns except
 (A) Age at onset (B) Amount of contact
 (C) Marital status of biological parents (D) None of the above
193. For what purpose were knowledge, attitude and practice studies were first used in India?
 (A) HIV. (B) Family planning.
 (C) Cervical cancer (D) Malaria

194. Which micronutrient is required for erythrocyte fragility?
(A) Zinc (B) Vitamin A
(C) Vitamin C (D) Selenium
195. In Vitamin A Deficiency pre-school children and pregnant women the serum retinol level would be
(A) $< 1.7\mu\text{mol} / \text{L}$ (B) $< 0.7\mu\text{mol} / \text{L}$
(C) $0.1 - 0.4 \mu\text{mol} / \text{L}$ (D) $< 1.1 \mu\text{mol} / \text{L}$
196. In developing countries, the common cause of zinc deficiency in children is
(A) Lack of intake of vegetable food (B) Protein Energy Malnutrition
(C) Recurrent reproductive tract infectious (D) High phytate content in diet
197. Which of the following is not used in assessment of body fat
(A) Quetelets index (B) Total body potassium
(C) Total body water (D) Breslow index
198. Which of the following parameters is false regarding a reference Indian adult women
(A) 18-29 years (B) 1.61m height
(C) 50 Kg weight (D) BMI 21.2 Kg
199. The RDA for Vitamin A/Retinol in lactating women is
(A) 350 mcg (B) 400 mcg
(C) 800 mcg (D) 950 mcg
200. Jowar cause pellagra due to excess of
(A) Lysine (B) Leucine
(C) Tryptophan (D) Methionine