

ARA

PROVISIONAL ANSWER KEY (CBRT)

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Instructions / સૂચના

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

- (1) All the suggestion should be submitted in prescribed format of suggestion sheet Physically.
- (2) Question wise suggestion to be submitted in the prescribed format (Suggestion Sheet) published on the website.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key (Master Question Paper), 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. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted suggestions are differed.
- (6) Objection for each question shall be made on separate sheet. Objection for more than one question in single 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 વેબસાઇટ 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 વેબસાઇટ 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.
- (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. The Ottawa charter for health promotion incorporates all of the following key action areas EXCEPT:
- (A) Build healthy public policy (B) Create supportive environment for health
 (C) Build social security system (D) Reorient health services
002. Which of the following is primary prevention?
- (A) Active treatment (B) Vaccination
 (C) Screening (D) Rehabilitation
003. Which among the following disease is not seriously advanced as a candidate for global eradication within the foreseeable future?
- (A) Tuberculosis (B) Polio
 (C) Measles (D) Dracunculiasis
004. In a village with population of 5000, 50 people have a disease and 10 of them died. What is the case fatality rate?
- (A) 1% (B) 2%
 (C) 0.5% (D) 20%
005. Which of the following is the most logical sequence?
- (A) Impairment-Disease-Disability-Handicap
 (B) Disease-Impairment-Disability-Handicap
 (C) Disease-Impairment-Handicap-Disability
 (D) Disease-Handicap-Impairment-Disability
006. The most universally accepted indicator of health status of whole population and their socio-economic conditions among the following is?
- (A) MMR (B) IMR
 (C) Life expectancy (D) Disease notification rates
007. Which among the following indicators is used to assess the value for money of medical intervention?
- (A) HALE (B) QALY
 (C) DALY (D) DFLE
008. Best method of comparison of death between two population with age variation-
- (A) Age adjusted rates (B) Crude death rates
 (C) Proportional mortality rates (D) None of the above
009. Among the following diseases all show bimodal peak of distribution in age incidence curve except:
- (A) Hodgkins disease (B) Leukemia
 (C) Female breast cancer (D) Hyperthyroidism
010. Herd immunity threshold does not vary with _____.
- (A) Virulence of the disease (B) Efficacy of the vaccine for the disease
 (C) Number of vaccines for the disease (D) Contact parameter for the population
011. Implementation of open vial policy allows reuse of partially used multidose vials of applicable vaccines under UIP in subsequent session up to _____ weeks.
- (A) 4 weeks (B) 6 weeks
 (C) 8 weeks (D) 2 weeks

012. A cross-sectional study was conducted at a Medical College in the year 2006 to measure the period prevalence of smokers among 105 students. Out of them 5 were already smokers and 15 started during 2006, period prevalence of 2006 is:
 (A) 22% (B) 19%
 (C) 15% (D) 11%
013. Bias in which variation occur due to different diseases treated in different hospitals is termed as?
 (A) Neyman bias (B) Berksonian bias
 (C) Observer bias (D) Recall bias
014. Select the wrong match regarding excipients used in vaccine.
 (A) MMR – neomycin (B) OPV – Magnesium chloride
 (C) DPT – Thiomersal (D) BCG – Neomycin
015. Vaccine not given to a patient with egg allergy.
 (A) Measles (B) MMR
 (C) Varicella (D) Influenza
016. Smoking leads to oesophageal carcinoma. Coffee intake has its effect on smoking and also oesophageal carcinoma. This factor can distort the results of the study which intends to prove an association between smoking and oesophageal cancer. This effect of this factor is known as:
 (A) Confounding (B) Multiple causation
 (C) One to one relationship (D) Dose response relationship
017. Which of the following is a live attenuated bacterial vaccine?
 (A) BCG vaccine (B) OPV
 (C) HiB vaccine (D) Pertusis vaccine
018. With which of the following of viral hepatitis infection in pregnancy, the maternal mortality is highest –
 (A) Hepatitis A (B) Hepatitis B
 (C) Hepatitis C (D) Hepatitis E
019. For the field diagnosis of Trachoma, the WHO recommends that follicular and intense trachoma inflammation should be assessed in –
 (A) Women aged 15-45 years
 (B) Population of 10 to 28 years range
 (C) Children aged 0-10 years
 (D) Population above 25 years of age irrespective of sex
020. All the following are criteria for discharging a patient recovering from dengue EXCEPT
 (A) Absence of fever for 12 hours (B) Return of appetite
 (C) Platelet count >50,000/cu.mm (D) Good urine output
021. Active and passive immunization can be done together for the following conditions EXCEPT:
 (A) Measles (B) Rabies
 (C) Tetanus (D) Diphtheria
022. A mother is HBsAg positive at 32 weeks of pregnancy. What should be given to the newborn to prevent neonatal infection –
 (A) Hepatitis B vaccine + immunoglobulins
 (B) Immunoglobulins
 (C) Hepatitis B vaccine only
 (D) Immunoglobulin followed by vaccine 1 month later

023. Vaccine derived polio virus outbreaks are due to –
 (A) Type-2 virus (B) Type-3 virus
 (C) Type-1 virus (D) All of the above
024. Elimination of leprosy in India is defines as prevalence of
 (A) Less than 1 per 1000 (B) Less than 1 per 10000
 (C) Less than 1 per 100000 (D) Less than 1 per 100
025. A patient complained of chills and fever following a louse bite 2 weeks before. He had rashes all over the body and was delirious at the time of presentation to the hospital and subsequently went into coma. A provisional diagnosis of vasculitis due to Rickettsial infection was made. Which one of the following can be causative agent?
 (A) Rickettsia typhi (B) Rickettsia rickettsiae
 (C) Rickettsia prowazekii (D) Rickettsia akari
026. Case detection in STDs is done by all EXCEPT –
 (A) Screening (B) Contact tracing
 (C) Cluster testing (D) Notification
027. Which of the following statements is false about rotavirus vaccine?
 (A) RotaTeq is scheduled to be administered in 3 oral doses
 (B) It is an oral, live, attenuated vaccine
 (C) The first dose of Rotarix is contraindicated for infants <12 weeks
 (D) It is not a part of catch-up vaccination programmes due to its risk of intussusception
028. According to WHO global action plan for the preparation and control of NCDs, which of the following is false
 (A) 25% relative reduction in presence of current tobacco use in person aged 15+ years
 (B) 50% of the eligible people receive drug therapy and counselling (including glycemic control) to prevent heart attack and stroke
 (C) 10% relative reduction in prevalence of insufficient physical activity
 (D) Halt the rise of diabetes and obesity
029. The project launched by WHO to know the reasons for changing trends in CHD is
 (A) MONICA
 (B) Multiple risk factor interventional trial (MRFIT)
 (C) Seven countries study
 (D) Framingham study
030. Lifestyle modification in the individuals at the risk of developing diabetes mellitus reduces the incidence of the disease by
 (A) 10-15% (B) 15-30%
 (C) 35-50% (D) 55-70%
031. True about hypertension, the primary prevention includes all, EXCEPT :
 (A) Weight reduction (B) Exercise promotion
 (C) Reduction in salt intake (D) Early diagnosis of hypertension
032. The highest decrease in systolic blood pressure is seen by:
 (A) Decreasing alcohol consumption
 (B) Taking a brisk walk for at least 30 min in a day
 (C) Adopting the DASH diet
 (D) Restricting sodium intake to less than 6g per day

033. The following are the protective factors for diabetes mellitus except
 (A) Omega 3 fatty acid (B) Non starch polysaccharide
 (C) Exclusive breastfeeding (D) Saturated fats
034. National Oral Health Programme was initiated in India during the year
 (A) 2013-14 (B) 2014-15
 (C) 2015-16 (D) 2016-17
035. The seriousness of injury is assessed by a scale known as
 (A) Accidental Injury scale (B) Abbreviated Injury scale
 (C) Automatic Injury scale (D) Automobile Injury scale
036. The lower the epidemiological transition ratio
 (A) Lower is the contribution of NCDs
 (B) Lower the contribution by NCDs and injuries
 (C) Higher is the contribution by CMNNDs
 (D) Higher is the contribution by NCDs and injuries
037. Epidemiological transition ratio is
 (A) $\frac{\text{DALYs caused by communicable diseases}}{\text{DALYs caused by Non-communicable diseases}}$
 (B) $\frac{\text{Deaths caused by communicable diseases}}{\text{Deaths caused by communicable diseases}}$
 (C) $\frac{\text{Deaths caused by Communicable, Maternal, Neonatal \& Nutritional diseases}}{\text{Deaths caused by NCDs \& injuries}}$
 (D) $\frac{\text{DALYs caused by Communicable, Maternal, Neonatal \& Nutritional diseases}}{\text{DALYs caused by NCDs \& injuries}}$
038. A patient's fasting plasma glucose is 122 mg/dl and post prandial plasma glucose is 138 mg/dl. Which of the following criteria does he fall under according to the WHO diagnostic criteria for diabetes and intermediate hyperglycemia?
 (A) Diabetes (B) Impaired glucose tolerance
 (C) Impaired fasting glucose (D) None of the above
039. Rheumatic heart disease can be prevented by
 (A) Screening of school going children
 (B) Vaccination against streptococcus
 (C) Treatment of respiratory infections in children
 (D) All of the above
040. According to ICD-11, Near Vision Impairment refers to
 (A) Presenting near vision acuity worse than N6 or N8 at 40 cm with existing correction
 (B) Presenting near vision acuity worse than N6 or N8 at 50 cm with existing correction
 (C) Presenting near vision acuity worse than N6 or N8 at 60 cm with existing correction
 (D) Presenting near vision acuity worse than N6 or N8 at 90 cm with existing correction

041. Whenever the median is reported as the measure of central tendency of a continuous variable, the associated appropriate measure of dispersion is
 (A) Range (B) Standard Deviation
 (C) Variance (D) Interquartile range
042. Arithmetic mean is a good measure of central tendency when
 (A) The observations are continuous and not skewed
 (B) The observations are ordered and symmetric
 (C) The observations are continuous and Skewed to the right
 (D) The observations are continuous and Skewed to the left
043. A nutritional research team followed serum levels of vitamin B12 and folic acid in 125 children for five years to determine the association between cyanocobalamin deficiency and the subsequent risk of developing megaloblastic anemia. The results were as follows:
 VITAMIN B12 LEVELS
 Mean = 262 pg/mL, Median =228 pg/mL, Mode=196 pg/mL
 From the data, it can be concluded that this distribution is
 (A) Normal (B) Positively skewed
 (C) Negatively skewed (D) Skewed toward the left
044. Among 100 women with an average Haemoglobin of 10 gm%, the standard deviation was 1. What is the standard error?
 (A) 0.01 (B) 0.1
 (C) 1 (D) 10
045. The summary measure such as mean and prevalence that is calculated from the sample observation is called
 (A) Statistic (B) Estimate
 (C) Parameter (D) Precision
046. The equivalent nonparametric test for the paired t-test is
 (A) Sign test (B) Median Test
 (C) Wilcoxon signed-rank test (D) Kruskal Wallis test
047. The cut-off researcher uses to reject the null hypothesis is
 (A) Confidence interval (B) Alpha level
 (C) Probability value (D) Power
048. If the values of the variable are in the form of counts such as the number of relapses of disease per patient during the hospital stay, such variable is
 (A) Discrete (B) Ratio
 (C) Ordinal (D) Interval
049. A household survey of 10 families was conducted by students of 4th-year MBBS. In the data they collected, the ages of heads of families were: 32, 34, 35, 36, 36, 42, 44, 46, 48, and 52. The mean age of heads of families is
 (A) 36 (B) 38.5
 (C) 40 (D) 40.5
050. When variables are normally distributed, the assumption on the averages is that
 (A) Mean is the largest (B) Median is the largest
 (C) Mode is the largest (D) Mean=Median=Mode

051. The use of normal distribution in statistical inference is important because
 (A) It is a good empirical distribution for all variables
 (B) It involves healthy population
 (C) It has high Skewness
 (D) It is always centered around Zero
052. An investigator wants to select 5% (i.e. 1 in 20) sample of the households in a village consisting of 100 households. He decides to select a random number between 1 and 20, and then every 20th person on the list is taken. Suppose 13 is the number selected, then the sample would comprise
 (A) 13, 18, 23, 28, 33 and so on (B) 13, 23, 33, 43, 53 and so on
 (C) 13, 33, 53, 73, 93 and so on (D) 13, 28, 43, 58, 73 and so on
053. The association between two categorical variables is best shown is a
 (A) Bar Chart (B) Dot Plot
 (C) One-way frequency distribution (D) Cross-tabulation of two factors
054. As the chosen level of power increases and the level of significance decreases, the sample size will _____
 (A) Increase (B) Decrease
 (C) Remain unchanged (D) Depend on study design
055. The graphical assessment of publication bias is made by
 (A) Forest plot (B) Scatter plot
 (C) Funnel plot (D) Box-Whisker plot
056. Mites are the vectors of following disease EXCEPT:
 (A) Scabies (B) Scrub typhus
 (C) Rickettsial pox (D) Kyasanur forest diseases
057. Hard tick is the vector for:
 (A) Relapsing fever (B) KFD
 (C) Q fever (D) Tularemia
058. Size of mites found on the body in a person suffering from Scabies.
 (A) 1 mm (B) 0.4 cm
 (C) 0.4 mm (D) 4 mm
059. Following is not a example of larvicide
 (A) Abate (B) Malathion
 (C) DDT (D) Chloropyrifos
060. Which is the causative organism of Onchocerciasis:
 (A) Reduviid Bug (B) Black fly
 (C) Rat flea (D) Sand fly
061. All of the following methods are anti larval measures EXCEPT:
 (A) Intermittent irrigation (B) Paris green
 (C) Gambusia affinis (D) Pyrethrum
062. Number of holes per square inch of standard mosquito net is
 (A) 100 (B) 150
 (C) 250 (D) 175

063. The arthropod which does not come under class insecta.
 (A) Soft tick (B) Rat flea
 (C) Culicines (D) Ruduviid bug
064. Under Insecticide Treated Bed Nets program, insecticide used is:
 (A) Deltamethrin. (B) Malathion.
 (C) Lindane. (D) Fenitrothion.
065. Kata thermometer most commonly nowadays is used for:
 (A) Low air velocity (B) Humidity of air
 (C) Direction of air flow (D) Cooling power of air
066. Which of the following is untrue about composting?
 (A) Bangalore method – aerobic process
 (B) Mechanical composting uses controlled environment
 (C) Night soil can also be disposed with composting
 (D) Compost has high manure value
067. Standard indicator to assess organic content of sewage is
 (A) Biological oxygen demand (B) Chemical oxygen demand
 (C) Suspended solids (D) Coliform count
068. The standard illumination recommended for general office work is lux
 (A) 100 (B) 1100
 (C) 900 (D) 400
069. Which of the following is not an index of heat stress
 (A) Predicated four-hour sweat rate (B) Air Velocity index
 (C) Equatorial comfort index (D) Heat stress index
070. Following organisms indicates recent contamination water
 (A) Faecal streptococci (B) Clostridium perfringens
 (C) Coliphages (D) E-coli
071. Recommended maximum limit of lead concentration (mg/L) in water is
 (A) 0.01 (B) 0.2
 (C) 0.6 (D) 0.1
072. Ortho-toluidine test is used to determine:
 (A) Nitrates in water (B) Nitrites in water
 (C) Free and combined chlorine in water (D) Ammonia content in water
073. Turbidity of water is visible to the naked eye above _____ NTU
 (A) 5 (B) 6
 (C) 3 (D) 4
074. Which of the following is not a requirement for an oxidation pond
 (A) Sunlight (B) Algae
 (C) Aeration (D) Bacteria
075. If a child has been drinking water containing 30mg/L of nitrates the condition likely to occur is:
 (A) Methemoglobinemia (B) Botulism
 (C) Dental caries (D) Enterobiasis

076. SI unit of radiation dose equivalent is _____
- (A) RAD (B) Gray
 (C) Sievert (D) Roentgen
077. Which of the following is not an organization related to Housing in India
- (A) National Building Organization
 (B) Housing and Urban Development Corporation
 (C) National Buildings Construction Corporation Ltd
 (D) National Rural Housing Services
078. Numerator for calculating child death rate is number of deaths occurring in children aged
- (A) 1-4 yrs (B) 1-5 yrs
 (C) 0-5 yrs (D) 0-1 yrs
079. Antenatal service for detection of diseases which may lead to complications in pregnancy is an example of:
- (A) Primordial prevention (B) Primary prevention
 (C) Secondary prevention (D) Disability limitation
080. A child of 1 year presents with muscle wasting, loss of subcutaneous fat with no signs of edema and weight below 60% of WHO standard. The mother gives history of not giving enough proteins and other nutrients to the child after six months of age. The likely diagnosis is:
- (A) Kwashiorkor (B) Marasmus
 (C) Marasmic kwashiorkor (D) Under nutrition
081. Extended definition of perinatal mortality includes crown heel length of
- (A) > 15 cm at birth (B) > 25 cm at birth
 (C) > 35 cm at birth (D) > 45 cm at birth
082. Acute Respiratory Infections (ARI) are important causes of under-five mortality in India. In remote areas, Children develop frequent episodes of ARI. What measures will you take for prevention and control of ARI amongst under-five children in that area?
- (A) Case management and Health education to mothers
 (B) Vaccination
 (C) Controlling malnutrition, Promoting breast feeding, Vitamin A supplementation
 (D) All of the above
083. A 37 weeks pregnant woman attends an antenatal clinic at a Primary Health Centre. She has not had any antenatal care till now. The best approach regarding tetanus immunization in this case would be to:
- (A) Give a dose of Tetanus Toxoid (TT) and explain to her that it will not protect the new born and she should take the second dose after four weeks even if she delivers in the meantime
 (B) Do not waste the TT vaccine as it would anyhow be of no use in this pregnancy
 (C) Given one dose of TT and explain that it will not be useful for this pregnancy
 (D) Give her anti-Tetanus Immunoglobulin along with the TT vaccine
084. What are the amounts of calories and proteins received by a pregnant woman under ICDS scheme
- (A) 300 cal, 15 gm protein (B) 600 cal, 18 gm protein
 (C) 300 cal, 25 gm protein (D) 500 cal, 25 gm protein

085. Kishori Shakti Yojana (KSY) is:
 (A) Empowerment of females under Maternity Benefit Scheme
 (B) Adolescent girl's scheme under ICDS
 (C) Free and compulsory education for girl child
 (D) Child care home scheme for female juvenile Delinquents
086. All of the following statements are true about the child-hood mortality rates in India EXCEPT:
 (A) Almost half of infant mortality rate (IMR) occurs in neonatal period.
 (B) Almost 3/4th of the under-five mortality occurs in the first year of life.
 (C) About one in thirteen children die before they reach the age of five years.
 (D) Neonatal mortality is higher among female children as compared to males.
087. Which of the following do not constitute high risk pregnancy?
 (A) Elderly primigravida (B) Elderly grand multipara
 (C) Twin pregnancy (D) Hyperemesis gravidarum
088. Major contributor of demographic burden is?
 (A) Decreased old age dependency ratio (B) Increased young age dependency ratio
 (C) Increased old age dependency ratio (D) Increased young age dependency ratio
089. Average number of girls that would be born to a woman if she experiences the current fertility pattern throughout her reproductive span assuming no mortality is known as
 (A) General Fertility Rate. (B) Total Fertility Rate.
 (C) Gross Reproductive Rate. (D) Net Reproductive Rate.
090. True about IUCD:
 (A) CuT 380 A was introduced in program in 1992.
 (B) Progestasert is 3rd generation IUCD.
 (C) CuT 380 A is approved for use for 5 years minimum.
 (D) Copper devices have lower expulsion rates
091. Family planning connotes conception control to avoid pregnancy & abortion, but it includes efforts of couples to induce pregnancy. So family planning achievement is determined by a sensitive indicator which is:
 (A) Birth rate (B) General fertility rate
 (C) Age specific fertility rate (D) Gross reproductive rate
092. All are absolute contraindications of IUCD EXCEPT:
 (A) Suspected pregnancy
 (B) History of pelvic inflammatory disease since last pregnancy
 (C) Pelvic inflammatory disease
 (D) Previous ectopic pregnancy
093. Explosive' growth rates occur when the annual rate of growth _____ %
 (A) 0.5-1.0 (B) 1.0-1.5
 (C) 1.5-2.0 (D) > 2.0
094. Contraceptive efficacy is measured by:
 (A) Pearl Index only.
 (B) Pearl Index and Life table analysis.
 (C) Life table analysis and Couple protection rate.
 (D) Pearl Index and Couple protection rate.

095. 10 women got pregnant out of 100 women, mean interval was 2 years. Calculate the pearl index.
 (A) 5 (B) 10
 (C) 2 (D) 4
096. Which contraceptive method will you refrain from advising a 28 year female who is breastfeeding a 7 week old baby, wanting to avoid pregnancy for a long interval:
 (A) LNG-IUD (B) IUD-380A
 (C) Implanon (D) Combined Oral contraceptive
097. Ideal candidate for IUCD includes all except:
 (A) Willing to check the thread. (B) Have normal menstrual cycle.
 (C) No history of PID. (D) Who have minimum of two children.
098. A newly married couple visits family planning centre for contraception. Upon investigation the woman has hyper-lipidemia. The method of contraception which would be used cautiously in this woman is:
 (A) Combined oral contraceptive pill (B) Second generation IUCD
 (C) Mini pill (D) Nor-plant
099. The National Population Policy of India has set the following goals except –
 (A) To bring down Total Fertility Rate (TFR) to replacement levels by 2015.
 (B) To reduce the Infant Mortality Rate to 30 per 1000 live births.
 (C) To reduce the maternal Mortality Rate to 100 per 100000 live births.
 (D) 100 per cent registration of births deaths marriages and pregnancies.
100. All are goals of NHP 2017 EXCEPT
 (A) Increased Life expectancy at birth to 70 years by 2025
 (B) Reduce Under-5 Mortality rate to 23 by 2025
 (C) Reduce MMR to 100 by 2025
 (D) Reduce NNMR to 60 by 2025
101. Systemic observation and recording of activities of one or more indicators carried out at a pre-determined random interval
 (A) Decision making (B) Network analysis
 (C) Work sampling (D) System analysis
102. The following is true about suggested population norms for health personnel:
 (A) Doctor : 1 per 3500 population (B) ANM : 1 per 1000 population
 (C) Lab technician : 1 per 10000 population (D) Pharmacist : 1 per 1000 population
103. Unified cadre was recommended by
 (A) Kartar Singh (B) Jungalwalla
 (C) Chadah (D) Mukerjee
104. Preplanning Phase includes all EXCEPT
 (A) Resource availability (B) Government Interest
 (C) Legislation (D) Administrative capacity
105. Scalar principle applies to
 (A) Individual must be answerable to only one superior
 (B) One work to be assigned to one individual at a time
 (C) Passing of authority to a junior / colleagues
 (D) Clearly defined authority & responsibilities from lowest position to topmost

106. All are goals of NHP 2017 EXCEPT
(A) To achieve and maintain cure rate of TB at more than 75
(B) To reduce the prevalence of blindness to 0.25 per 1000 by 2025
(C) Reduction of 40% prevalence of stunting of under five children by 2025
(D) Reduction in tobacco use by 15% by 2020 and 30% by 2025
107. Anthropometric indices used for measurement of undernourishment are all EXCEPT
(A) Weight for age (B) Height for age
(C) Mid arm circumference (D) Weight for height
108. Under Anemia Mukht Bharat Scheme (2018), a 4 year old girl should receive weekly
(A) 50 mg Iron & 100 mcg Folic acid (B) 50 mg Iron & 50 mcg Folic acid
(C) 20 mg Iron & 100 mcg Folic acid (D) 20 mg Iron & 50 mcg Folic acid
109. Which dietary change that is advised for prevention of coronary heart disease is incorrect?
(A) Increase in complex carbohydrate intake
(B) Reduction of salt intake to 10 grams/day or less
(C) Reduction in dietary cholesterol to <100 mg/1000 kcal/day
(D) Consumption of saturated fats limited to <10%
110. Epidemic dropsy is caused by which of the following toxic compounds
(A) BOAA (B) Sanguinarine
(C) Aflatoxins (D) Pyrrolizidine alkaloids
111. Which of the following vitamins can be used for the treatment and prevention of lathyrism:
(A) Vit A (B) Vit B12
(C) Vit C (D) Vit D
112. Which of the following statements is false about par boiling?
(A) Parboiling refers to partial cooking of rice in steam
(B) The hot soaking process is used for par boiling
(C) Vitamins and minerals are driven into endosperm due to par boiling
(D) Par boiling softens the rice grains and makes it resistant to insects
113. Which of the following is recommended for pregnant women during the antenatal period, based on Anemia Mukht Bharat Scheme?
(A) 100 mg of elemental iron for 100 days (B) 60 mg of elemental iron for 100 days
(C) 60 mg elemental iron for 180 days (D) 100 mg elemental iron for 180 days
114. Food standards for the international food markets utilizes:
(A) ISI standards (B) AGMARK standards
(C) Codex Alimentarius (D) PFA standards
115. The energy required by an adult for basal metabolism is
(A) 2 kcal/ hour/kg body weight (B) 3 kcal/hour/kg body weight
(C) 4 kcal/hour/kg body weight (D) 1 kcal/hour/kg body weight
116. Researchers decided to study the impact of iodized salt program. Which of the following would be (is) the most sensitive indicator for monitoring environmental iodine deficiency?
(A) Prevalence of goiter (B) Prevalence of myxedema
(C) Prevalence of neonatal hypothyroidism (D) Urine iodine excretion

117. You have to counsel a patient regarding their diet and the proportion of macronutrients that should be present in their food. The proportion of the nutrients taken daily must be-
- (A) Fats > carbohydrates > proteins (B) Proteins > carbohydrates > fats
 (C) Carbohydrates > proteins > fats (D) Carbohydrates > fats > proteins
118. The systematic study of human disease and social conditions/factors is known as:
- (A) Social physiology (B) Social pathology
 (C) Socialized medicine (D) Social medicine
119. Match the following types of learning:
- | | |
|---------------------------|--------------|
| I. Cognitive learning | a. Skills |
| II. Affective learning | b. Knowledge |
| III. Psychomotor learning | c. Attitude |
- (A) I – b, II – a, III – c (B) I – b, II – c, III – a
 (C) I – a, II – c, III – b (D) I – a, II – b, III – c
120. Intelligence Quotient (IQ) is calculated by
- (A) Mental age / Chronological age × 100 (B) Mental age – Chronological age × 100
 (C) Chronological age / Mental age × 100 (D) Chronological age – Mental age × 100
121. Most important epidemiological tool used for assessing disability in children is:
- (A) Activities of Daily living (ADL) scale
 (B) Wing's Handicaps, Behaviour and Skills (HBS) Schedule
 (C) Binet and Simon IQ test
 (D) Physical Quality of Life Index (PQLI)
122. Family which lags behind rest of the community is known as?
- (A) Communal family (B) Elementary family
 (C) Problem family (D) Broken family
123. Gross Domestic Product minus the value of depreciation on fixed assets is termed as:
- (A) Net National Product (B) Net Domestic Product
 (C) GDP at Market Price (D) Gross Domestic Savings
124. Pattern of interrelationship between persons in a society is known as:
- (A) Socialism (B) Social structure
 (C) Socialization (D) Medical sociology
125. Some people resort to childhood practices as a mode of adjustment. Type of defence mechanism adopted here is:
- (A) Rationalization (B) Compensation
 (C) Displacement (D) Regression
126. Intelligence Quotient (IQ) = 20 – 34 is:
- (A) Severe MR (B) Profound MR
 (C) Moderate MR (D) Mild MR
127. The following is true about the term 'New families':
- (A) It is the variant of the 3 generation.
 (B) It is applied to all nuclear families of less than 10 years duration.
 (C) It is a variant of the joint family.
 (D) It is applied to all nuclear families of less than 2 years.

128. Under the Dowry Prohibition (Amendment) Act, 1986 the minimum punishment for taking or abetting the taking of dowry is:
- (A) 10 years imprisonment and a fine of 5 Lakh
(B) 5 years imprisonment and a fine of 1 Lakh
(C) 1 year imprisonment and a fine of Rs 50000
 (D) 5 years imprisonment and a fine of 15000
129. Which among the following is not an indicator of Global Hunger Index?
- (A) Undernourishment (B) Child underweight
(C) Child mortality (D) Maternal Mortality
130. What is used to control fungus growth on Bagasse
- (A) 10% propionic acid (B) 10% acetic acid
 (C) 2% propionic acid (D) 2% acetic acid
131. The screening test used to detect lead poisoning
- (A) Blood lead levels (B) Coproporphyrin in urine
(C) Cotinine level in urine (D) Free blood in the urine
132. All the following are associated with bladder cancer EXCEPT
- (A) Auramine (B) Benzol
(C) Magenta (D) Para-amino-diphenyl
133. Which of the following is true about the Factories Act?
- (A) Children under 14 years of age cannot be employed in factories
(B) A child of 16 years can be employed in certain industries from 6 AM to 9 PM
(C) A child of 15 years can work 6-8 hours
(D) Maximum working hours from an adult is 72 hours per week
134. Employers contribution under the Employees State Insurance Act is
- (A) 3.75% (B) 3.25%
(C) 4.25% (D) 4.75%
135. The beneficiary under Rajiv Gandhi Shramik Kalyan Yojana scheme of ESI Act is
- (A) Employees suffering from mental illness
(B) Pregnant employees
 (C) An insured person rendered unemployed involuntarily
(D) Employers of a new establishment
136. A rubber industry worker presents with abdominal colic and severe anemia His blood examination reveals basophilic stippling of RBCs and microcytic anemia What is the likely diagnosis?
- (A) Lead poisoning (B) Sideroblastic anemia
(C) Benzene poisoning (D) Mercury poisoning
137. Wrist drop may be caused as an industrial hazard in
- (A) Battery industry (B) Gas industry
(C) Asbestos industry (D) Aniline industry

138. Match dust particle with disease
- | | |
|---------------|-----------------|
| 1. Coal dust | a. Bagassosis |
| 2. Hay dust | b. Anthracosis |
| 3. Iron | c. Farmers lung |
| 4. Cane fiber | d. Siderosis |
- (A) 1 - a, 2 - b, 3 - c, 4 - d (B) 1 - d, 2 - c, 3 - b, 4 - a
 (C) 1 - b, 2 - c, 3 - d, 4 - a (D) 1 - a, 2 - c, 3 - b, 4 - d
139. Which of the following exposures requires daily examination of an individual in the industries?
 (A) Dichromate (B) Radon
 (C) Lead (D) Dye
140. A young woman who is suffering from recurrent miscarriages and stillbirth. She has been working in the local printing industry. She is likely suffering from which of the following toxicity?
 (A) Lead (B) Selenium
 (C) Mercury (D) Beryllium
141. According to the Factories Act, 1948 how many hours are adolescents allowed to work?
 (A) 6-8 hours (B) 2 and a half hours
 (C) 5 and a half hours (D) 4 and a half hours
142. Which benefit is not given as cash benefit under the Employees State Insurance Act?
 (A) Medical benefit (B) Sickness benefit
 (C) Maternity benefit (D) Dependent's benefit
143. Following are features of Silicotuberculosis EXCEPT
 (A) High sputum AFB +ve (B) Children of such cases do not get the disease
 (C) Impairment of total lung (D) Nodular fibrosis
144. A person aged 40 years, working as a laborer in the grain market for the last 25 years presented with a history of repeated attacks of respiratory infections in the last 1 year. The X-ray showed pulmonary fibrosis. The likely diagnosis was:
 (A) Bagassosis (B) Silicosis
 (C) Farmer's lung (D) Anthracosis
145. An industrial worker presented with pulmonary tuberculosis. On X- rays Calcification and fibrosis were seen. The likely industry he had worked in is:
 (A) Sandblasting (B) Poultry
 (C) Cotton (D) Agriculture
146. Monday fever is associated with
 (A) Bagassosis (B) Byssinosis
 (C) Asbestosis (D) Silicosis
147. Socratic method of education consist of all EXCEPT
 (A) Lecture (B) Group discussion
 (C) Seminar (D) Panel discussion
148. Counselor should have all the following quality EXCEPT:
 (A) Sensitivity (B) Sympathy
 (C) Understanding (D) Patience

149. The Council of Europe Convention recognizes all of the following about domestic violence, EXCEPT that
- (A) Domestic violence affects women disproportionately
 - (B) Economic violence within the family or domestic unit is not domestic violence
 - (C) Men may be victims of domestic violence
 - (D) Children are victims of domestic violence
150. Which of the following statement is false about the Ayushman Bharat-National Health Protection Mission?
- (A) Government provides health insurance cover of up to Rs. 5,00,000 per family per year
 - (B) The limit of the size of the family that is covered is up to 7 members
 - (C) Hospitals cannot deny treatment to the diseases and the families covered under the scheme
 - (D) It covers secondary and tertiary care hospitalization
151. Which of the following is FALSE regarding qualifications to perform Medical termination of Pregnancy?
- (A) 2 years of practice in obstetrics and gynecology for doctors registered before the 1971 MTP Act was passed
 - (B) 6 months housemanship in obstetrics and gynecology
 - (C) A post-graduate qualification in obstetrics and gynecology
 - (D) 1 year of practice in obstetrics and gynecology for those doctors registered on or after the date of commencement of the Act
152. Which of the following statements refers to propaganda?
- (A) Appeals to emotion
 - (B) Develops individuality
 - (C) The progress is behaviour centered
 - (D) Makes people think for themselves
153. All of the following facts are true with group discussion except
- (A) Group member should not know each other
 - (B) Group discussion is very effective method of health education
 - (C) The group should sit in circle
 - (D) There should be a group leader to initiate
154. If the pregnancy of a woman is beyond 12 weeks and up to 20 weeks, for medical termination of pregnancy (MTP)
- (A) opinion of one doctor is necessary
 - (B) opinion of a medical board with more than two doctors is necessary
 - (C) opinions of two registered medical practitioners are necessary
 - (D) permission from the local civil court is necessary
155. The main objective of the Pradhan Mantri Bhartiya Jan-aushadhi Pariyojana (PMBJP) is to
- (A) Improve maternal and child health
 - (B) Make quality, generic medicines affordable to all
 - (C) Enhance quality of life and increase employment for the differently abled
 - (D) Mobilize the Indian youth against issues like women empowerment and trafficking
156. Select the correct statement for the National Deworming Programme
- (A) It is carried out once a year
 - (B) Free tablets are given to children up to the age of 15 years
 - (C) It is carried out in schools and anganwadis
 - (D) All of the above statements are true

157. To impart health education regarding child care to large number of mothers visiting MCH centre, it is decided to resort to method of group discussions. What could be appropriate strength of each group for this purpose?
- (A) 3-5 (B) 4-6
 (C) 6-12 (D) 20-25
158. Match the following health agencies and the location of their headquarters
- | Health agency | Headquarters |
|---------------|------------------------|
| a. WHO | 1. Rome, Italy |
| b. UNICEF | 2. New York, USA |
| c. FAO | 3. Geneva, Switzerland |
- (A) a - 1, b - 2, c - 3 (B) a - 3, b - 2, c - 1
 (C) a - 3, b - 1, c - 2 (D) a - 1, b - 3, c - 2
159. Funding agency for reproductive health is
- (A) ILO (B) DANIDA
 (C) UNFPA (D) FAO
160. World Bank gives loan for
- (A) Accidental problems (B) Economic growth of the country
 (C) Agriculture improvement (D) All of the above
161. When was Smallpox globally eradicated ?
- (A) May 1984 (B) May 1980
 (C) May 1977 (D) May 1982
162. The work of the Rockefeller Foundation in India began for the -
- (A) Control of Malaria (B) Control of Hookworm disease
 (C) Control of Leprosy (D) Control of Guinea worm disease
163. Theme of World Health Day 2020 ?
- (A) Depression Let's talk (B) Support Nurses and Midwives
 (C) How safe is your food ? (D) Universal Health Coverage
164. Under the IHR, there are four diseases which always constitute a PHIEC and the occurrence of even one case of these disease should be reported EXCEPT?
- (A) Malaria (B) Smallpox
 (C) SARS (D) Poliomyelitis due to wild polio virus
165. Surveillance reporting system used by WHO ?
- (A) WHO bulletin (B) Weekly epidemiological record
 (C) Morbidity and Mortality report (D) Technical report series
166. UNDP is an international agency which works :
- (A) Development of children
 (B) Development of human & natural resources in a country
 (C) Economic development of the country
 (D) Research and technological development of the country
167. Which of the following is a bilateral agency ?
- (A) ILO (B) DANIDA
 (C) UNFPA (D) CARE

168. Which agency provides assistance for development of services under National Blindness Control Programme ?
 (A) USAID (B) DANIDA
 (C) SIDA (D) WHO
169. Which of the following is not the member of SouthEast Asia Region-WHO?
 (A) Bangladesh (B) Sri Lanka
 (C) Pakistan (D) Timor-Leste
170. Under International Health Regulation(IHR), a disease that is identified as PHIEC should be reported to the WHO within :
 (A) 6 hours (B) 24 hours
 (C) 3 days (D) 1 week
171. Which of the following areas can be included in the health research?
 i. Improving the health of the population
 ii. Predicting progression of a disease in a patient
 iii. Prevention of various diseases
 iv. To explore Various societal, community based & programmatic interventions for disease prevention & control
 (A) i & ii (B) i, ii & iv
 (C) All of the above (D) None of the above
172. In a study among 3400 children aged 5-10 years, 16 children were diagnosed with autistic disorder. Calculate the prevalence of autism per 1000 children
 (A) 4.01 (B) 5.53
 (C) 3.35 (D) 4.71
173. Which of the following is NOT true regarding case-control study?
 i. Appropriate for study of rare outcome
 ii. More time consuming than cohort study
 iii. Multiple exposures can be examined
 iv. Relatively expensive compared to cohort study
 (A) Both (i) and (ii) (B) Both (ii) and (iii)
 (C) Both (ii) and (iv) (D) Both (iii) and (iv)
174. The observer becomes a part of the group or event in this method of qualitative study
 (A) In-depth Interviews (B) Focus Group Discussions
 (C) Participant observation (D) Structured interviews
175. A type-II error occurs when
 (A) The null hypothesis is rejected when it is false
 (B) The null hypothesis is not rejected when it is false
 (C) The null hypothesis is not rejected when it is true
 (D) The null hypothesis is rejected when it is true
176. A group of researchers submitted a manuscript for publication based on a drug trial. Because they did not register under the clinical trial registry of India (CTRI), one reputed journal rejected the paper. The researcher resubmitted the paper in a different journal and this journal published it without asking any queries. Which of the following is the correct statement?
 (A) It is necessary to register all drug trials under CTRI
 (B) The journal which published the paper is likely to be a predatory journal
 (C) Both (A) and (B) are correct
 (D) None of the above

177. Confounding bias is reduced by all except:
(A) Matching (B) Blinding
(C) Randomisation (D) Multivariate analysis
178. Type of randomized control trial, in which both groups [experiment & reference] act as exposed group as well as non-exposed group?
(A) Uncontrolled trial (B) Concurrent parallel trial
(C) Cross over trial (D) Natural experiment
179. The process of identifying, within a large document collection, a subset of documents whose content is most relevant to user's need is called as
(A) Information retrieval (B) Information management
(C) Systematic Review (D) Narrative Review
180. While measuring the frequency of a chronic disease in a community in terms of Incidence per 1000 persons per year, and point prevalence per 1000 persons, what is the expected pattern of incidence and prevalence?
(A) Low prevalence, high incidence
(B) High prevalence, low incidence
(C) Both prevalence and incidence will be similar
(D) None of the above statements are true
181. Which of the following study design is better suited to demonstrate a temporal association between exposure and disease?
(A) Cross-sectional study (B) Case-control study
(C) Cohort study (D) Ecological study
182. Which methods in qualitative research use flexible interview guide?
(A) In depth Interviews and participant observation
(B) Focus Group Discussions and In-depth interviews
(C) Participant Observation and focus group discussions
(D) Structure interviews and surveys
183. The primary responsibilities of the Data Safety Monitoring Body (DSMB) are to
(A) Periodically review and evaluate the accumulated study data for participant safety, study conduct and progress of trial
(B) Periodically review and evaluate the accumulated study data for participant safety, study conduct and progress and make recommendation concerning the continuation, modification, or termination of the trial
(C) Periodically make recommendations concerning the continuation, modification, or termination of the trial
(D) Decide the randomization sequence
184. Which of the following statements is true
(A) Descriptive studies are used to test hypothesis
(B) Descriptive studies are the first phase in epidemiology
(C) Analytic studies are used to formulate a hypothesis
(D) Analytic studies observe distribution of the disease
185. The following measure is not influenced by extreme values in a data set
(A) Arithmetic Mean (B) Inter-quartile range
(C) Range (D) Both (B) and (C)

186. According to the Indian Medical Council Regulations, 2002 duties of physician, especially those engaged in public health work include all EXCEPT:
- (A) Should enlighten the public concerning quarantine regulations and measures for the prevention of epidemic and communicable diseases.
- (B) Physician need not notify the constituted public health authorities of every case of communicable disease under his care.
- (C) When an epidemic occurs a physician should not abandon his duty for fear of contracting the disease himself.
- (D) They should particularly co-operate with the authorities in the administration of sanitary/ public health laws and regulations.
187. As per Gazette of India notification of 8.10.2016 under Use of Generic name of drugs, a physician should follow all the norms EXCEPT:
- (A) Every physician should display the registration number accorded to him by the State Medical Council / Medical Council of India in his prescriptions.
- (B) Every physician should prescribe drugs with generic names legibly.
- (C) Every physician need not prescribe drugs in capital letters
- (D) Every physician should prescribe drugs he/she shall ensure that there is a rational prescription and use of drugs.
188. According to the Indian Medical Council Regulations, 2002 whenever the physician requests another physician to attend his patients during his temporary absence from his practice, the substitute physician should follow all the rules EXCEPT:
- (A) acceptance of such appointment only when he has the capacity to discharge the additional responsibility along with his / her other duties.
- (B) The physician acting under such an appointment should give the utmost consideration to the interests and reputation of the absent physician
- (C) Substitute physician takes over the case as his own.
- (D) All such patients should be restored to the care of the latter upon his/her return.
189. According to the Indian Medical Council Regulations, 2002 Decision on complaint against delinquent physician shall be taken within a time limit of:
- (A) 1 year. (B) 6 months.
- (C) 2 years. (D) 3 months.
190. The highest and Lowest Birth rates as per SRS Bulletin 2020 is in the states respectively
- (A) Bihar & Andaman and Nicobar (B) Uttar Pradesh & Andaman and Nicobar
- (C) Uttar Pradesh & Kerala (D) Bihar & Kerala
191. One of the goals of NIDDCP is to ensure 100% consumption of adequately iodated salt at the household level. The adequate level refers to
- (A) 10 ppm (B) 12 ppm
- (C) 15 ppm (D) 20 ppm
192. All are the partner institutes of Anemia Mukta Bharat EXCEPT
- (A) Institute of economic growth
- (B) NCEAR-A [National Centre of Excellence and Advanced Research on Anemia Control, AIIMS]
- (C) Tarang Hub
- (D) Institute of nutritional growth

193. Mission Pariwar Vikas is introduced in all states EXCEPT
(A) Bihar (B) Uttar Pradesh
(C) Tamil Nadu (D) Assam
194. Functional Household Tap Connection (FHTC) to every rural household i.e., Har Ghar Nal Se Jal (HGNSJ) by 2024 is initiated under the programme
(A) Jeevan Jal Mission (B) Mission Jal Bharath
(C) Jal Jeevan Mission (D) Jal Jeevan Parivarthan
195. Sparsh Leprosy Awareness Campaign was launched in the year
(A) 2011 (B) 2014
(C) 2017 (D) 2020
196. The United Nations has declared the following year as the International Year of Plant Health (IYPH)
(A) 2019 (B) 2020
(C) 2021 (D) 2022
197. Global Action Plan for the Prevention and Control of NCDs 2013-2020; Target 4 aims to
(A) Reduce Sugar intake (B) Reduce Salt intake
(C) Reduce Cholesterol level (D) Reduce Blood Pressure level
198. Quarterly publication of Central TB Division of India regarding TB updates is
(A) NikshayPathrika (B) KshayPathrika
(C) Nikshay India (D) Kshay India
199. The tagline of National Tobacco Control Programme is
(A) Choose Life, Not Tobacco (B) Choose Life, Not Smoking
(C) Save Life, No Tobacco (D) Save Life, No Smoking
200. Central Pollution Control Board of India is a statutory organization under
(A) Ministry of Environment, Forest and Climate Change
(B) Ministry of Health and Family Welfare
(C) Ministry of Home Affairs
(D) Ministry of Pollution Control