

## ANT

### 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 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 ઉત્તરવહીની 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. All the following indicators are used by NITI AAYOG in calculating health index of India, except  
(A) Health outcomes (B) Governance and information  
(C) Key inputs/processes (D) Social and economic characteristics
002. Theory of contagion was enunciated by  
(A) Paracelus (B) Fracastorius  
(C) Vasalius (D) Ambroise Pare
003. The following indicators are considered in physical quality of life index, except  
(A) Infant mortality (B) Life expectancy  
(C) Life expectancy at age one (D) Literacy rate
004. Under Sustainable Development Goal 3, target 1 from the 2030 Agenda is  
(A) By 2030, reduce the global maternal mortality ratio to less than 70 per 100,000 live births  
(B) By 2030, reduce the global maternal mortality ratio to 80 per 100,000 live births  
(C) By 2030, reduce the global maternal mortality ratio to 90 per 100,000 live births  
(D) By 2030, reduce the global maternal mortality ratio to 100 per 100,000 live births
005. As per Indian Medical Council (Professional Conduct, Etiquette and Ethics), good medical practice includes all activities, except  
(A) Membership in medical society  
(B) Participating in professional meetings  
(C) Maintaining medical records pertaining to patients for a period of 2 years  
(D) Use of generic names of drugs
006. Method of identifying missing cases and thereby supplementing the notified cases is called as  
(A) Monitoring (B) Surveillance  
(C) Sentinel surveillance (D) Evaluation of control
007. In the monovalent human rotavirus vaccine, the two-dose schedule should be completed by age  
(A) 16 weeks (B) 26 weeks  
(C) 32 weeks (D) 42 weeks
008. The effectiveness of progestogen-only pill can be affected by all drugs, except  
(A) Dapsone (B) Rifampicin  
(C) Phenobarbital (D) Ampicillin
009. Diluent used in reconstitution of BCG vaccine is \_\_\_\_\_  
(A) Distilled water (B) Normal saline  
(C) Double distilled water (D) All of the above
010. The cut-off point for the diagnosis of anaemia in pregnant women is  
(A) 10 g/dl (B) 11 g/dl  
(C) 12 g/dl (D) 13 g/dl

011. Advantages of single-chamber incinerator include all, except  
 (A) Good disinfection efficiency  
 (B) No emission of atmospheric pollutants  
 (C) Drastic reduction of weight and volume of waste  
 (D) No need for highly trained operators
012. International travellers can minimize the risks of health problems on travel by which of the following methods  
 (A) Chemoprophylaxis (B) Chemotherapy  
 (C) Immunization  (D) All of the above
013. The least heat sensitive vaccine among the following is  
 (A) Oral polio vaccine (B) MMR vaccine  
 (C) Hepatitis b vaccine (D) Rotavirus vaccine
014. The legal basis of the census is provided by  
 (A) The census act 1947  (B) The census act 1948  
 (C) The census act 1949 (D) None of the above
015. Post-neonatal mortality has been most closely linked to  
 (A) Events during delivery  (B) Environmental and social factors  
 (C) Maternal health during pregnancy (D) Events during early neonatal period
016. The title of the book by WHO for international travellers is  
 (A) International travel & health guide  
 (B) International travel & health advice  
 (C) International travel & health, vaccination requirements & health advice  
 (D) Do's & don'ts in international travel
017. The predictive accuracy of a screening test depends upon all, except  
 (A) Sensitivity (B) Specificity  
 (C) Disease prevalence  (D) Disease progress
018. National samples typically cover between \_\_\_\_\_ households is considered adequate for providing national estimates on variables of health  
 (A) 1000 to 5000  (B) 5000 to 10000  
 (C) 10000 to 150000 (D) 150000 to 200000
019. The time limit for registering the event of births & deaths is \_\_\_\_\_ uniformly all over India  
 (A) 14 days  (B) 21 days  
 (C) 28 days (D) 42 days
020. In the audiogram, noise-induced hearing loss shows a characteristic dip in the curve at the frequency of  
 (A) 2000 Hz (B) 3000 Hz  
 (C) 4000 Hz (D) 5000 Hz

021. Serial interval is useful in guessing the following  
(A) Generation time (B) Communicable period  
(C) Incubation period (D) Secondary attacks
022. The hidden part of the iceberg constitutes which of the following  
(A) Undiagnosed cases (B) Presymptomatic cases  
(C) Carriers in the community (D) All of the above
023. In advanced model of the triangle of epidemiology the term agent is replaced by  
(A) Causative factors (B) Web of causation  
(C) High risk group (D) Social and cultural factors
024. In Japanese encephalitis, man is  
(A) Amplifier host (B) Incidental dead-end host  
(C) Intermediate host (D) Natural host
025. All are true of Pradhan Mantri Jan Arogya Yojana, except  
(A) There is no cap on family size and age  
(B) The scheme is entitlement based  
(C) The scheme will provide coverage up to Rs. 6,00,000 per family per year  
(D) The scheme will reduce out of pocket hospitalization expenses
026. All of the following are methods of interventions in health promotion, except  
(A) Health education (B) Lifestyle and behavioural changes  
(C) Immunization (D) Nutritional interventions
027. The community diagnosis is based on collection and interpretation of the relevant data of which of the following  
(A) Age and sex distribution  
(B) Vital statistics  
(C) Incidence and prevalence of important disease of the area  
(D) All of the above
028. The midyear population, a most commonly used denominator is \_\_\_\_\_  
(A) Population estimated as on 1st January  
(B) Population estimated as on 1st April  
(C) Population estimated as on 1st July  
(D) Population estimated as on 1st October
029. Early clues that a patient has severe envenoming include all, except  
(A) Early extension of local swelling  
(B) Early tender enlargement of local lymph nodes  
(C) Heaviness of the eyelids  
(D) Passage of dark yellow urine

030. Period of communicability in tetanus is  
 (A) Seven days (B) Ten days  
 (C) Two months (D) None
031. All the following indices are used in flea surveys, except  
 (A) General flea index (B) Specific flea index  
 (C) Percentage prevalence of flea species (D) Rodent infestation rate
032. Measles vaccine contains all, except  
 (A) Sorbitol (B) Hydrolysed gelatin  
 (C) Neomycin (D) Thiomersal
033. Which of the following insecticide is not a contact poison  
 (A) Pyrethrum (B) Paris green  
 (C) Parathion (D) Pothrin
034. The commonest site of nosocomial infections is  
 (A) Surgical site (B) Respiratory tract  
 (C) Skin and soft tissue (D) Urinary tract
035. The number of member countries in SEAR (south east asia region) are \_\_\_\_\_  
 (A) 10 (B) 11  
 (C) 12 (D) 13
036. Period of surveillance is determined by  
 (A) Incubation period (B) Communicable period  
 (C) Generation period (D) Serial interval
037. Available chlorine in perchloron is  
 (A) 10 - 20 per cent (B) 33 per cent  
 (C) 60 - 70 per cent (D) 80 - 90 per cent
038. Human live vaccine is available against the following species of Brucella  
 (A) Brucellamelitensis (B) Brucellasuis  
 (C) Brucellaabortus (D) Brucellacanis
039. Morbidity rates include all, except  
 (A) Incidence and prevalence  
 (B) Duration of stay in hospital  
 (C) Admission, readmission and discharge rates  
 (D) Bed disability days
040. All of the following are publication of morbidity & mortality statistics by WHO, except  
 (A) Weekly epidemiological record (B) World health statistics quarterly  
 (C) World health statistics half yearly (D) World health statistics annual
041. The headquarters of FAO (food & agriculture organization) is situated at  
 (A) Geneva (B) Paris  
 (C) Rome (D) London

042. Different types of risks estimated from cohort study include all, except  
(A) Odds ratio (B) Relative risk  
(C) Attributable risk (D) Population attributable risk
043. The commonest organism implicated in ophthalmia neonatorum is  
(A) Neisseria gonorrhoeae (B) Chlamydia trachomatis  
(C) Trichomonas vaginalis (D) Candida spp
044. The symptoms of high altitude pulmonary oedema generally appear at high altitude on about the  
(A) Twelve hours (B) First day  
(C) Second day (D) Third day
045. International sanitary code was prepared with 137 articles to deal with all the following diseases, except  
(A) Cholera (B) Plague  
(C) Polio (D) Yellow fever
046. Which of the following is not a type of cohort study  
(A) Prospective cohort studies  
(B) Retrospective cohort studies  
(C) Combination of prospective & retrospective cohort studies  
(D) None of the above
047. The age-sex pyramid is an example of  
(A) Multiple bar chart (B) Histogram  
(C) Venn diagram (D) Scatter diagram
048. The following are disadvantages of case control studies, except  
(A) Not suitable for rare diseases  
(B) Problems of memory or recall bias  
(C) Difficulty in selection of appropriate control group  
(D) Cannot measure incidence & can only estimate the relative risk
049. Quarantine was introduced in Europe to protect against importation of which disease  
(A) Cholera (B) Plague  
(C) Influenza (D) All of the above
050. The Characteristic features of silicosis include all, except  
(A) Nodular fibrosis  
(B) Affects basal part of lungs  
(C) X-ray chest showing "snow-storm" appearance in the lung fields  
(D) Appear after or up to 6 years of work exposure
051. Example of food having high glycaemic index is  
(A) Whole grains (B) Corn flakes  
(C) Pasta foods (D) Sucrose

052. Which of the following sequence is correct for four basic steps in conducting case control study
- (A) Selection of cases & controls, measurement of exposure, matching & analysis with interpretation
- (B) Selection of cases & controls, matching, measurement of exposure & analysis with interpretation
- (C) Matching, selection of cases & controls, measurement of exposure & analysis with interpretation
- (D) None of the above
053. Methods other than direct & indirect standardization of mortality include all of the following except
- (A) Life table  (B) Survival rates
- (C) Regression technique (D) Multivariate analysis
054. The activities of United Nations Children's Fund include all, except
- (A) Whole child concept  (B) Freedom from hunger campaign
- (C) Country health programming (D) Urban basic services
055. Food poisoning is characterized by all the features, except
- (A) History of ingestion of a common food
- (B) Attack of many persons at the same time
- (C) Similarity of signs and symptoms in the majority of cases
- (D) Occurrence of secondary cases
056. Which of the following is not a periodic fluctuation seen in time distribution of an epidemic
- (A) Seasonal trend (B) Cyclic trend
- (C) Secular trend (D) All of the above
057. Community intervention studies are a type of \_\_\_\_\_
- (A) Cross sectional studies  (B) Experimental studies
- (C) Descriptive studies (D) Analytical studies
058. For sickness arising out of confinement, the duration of benefit under ESI Act is
- (A) 30 days (B) 6 weeks
- (C) 26 weeks (D) 30 weeks
059. Knowledge of incubation period is helpful in
- (A) Treatment (B) Follow up
- (C) Active immunization  (D) Passive immunization
060. Organo-chlorine compound insecticides include all, except
- (A) Chlordane  (B) Chlorpyrifos
- (C) Dieldrin (D) Heptachlor
061. The approximate magnitude of completed family size is given by
- (A) General fertility rate (B) Age-specific fertility rate
- (C) Gross reproduction rate  (D) Total fertility rate

062. Incubation period is of fundamental importance in epidemiological studies for  
(A) Tracing the source of infection & contacts  
(B) Period of surveillance  
 (C) Immunization  
(D) All of the above
063. Which of the following is false regarding passive immunity  
(A) immunity is rapidly established  
(B) immunity produced is temporary  
 (C) There is education of reticuloendothelial  
(D) Transfer of maternal antibodies across placenta
064. Blowing of fresh air into a room is called as  
(A) Exhaust ventilation  
(B)  Plenum ventilation  
(C) Balanced ventilation  
(D) Air conditioning
065. The optimum size of base population for a population based cancer registry is  
(A) 0.5 - 1 million  
(B)  2 - 7 million  
(C) 12 - 17 million  
(D) 18 - 20 million
066. Oral contraceptive usage among women over 35 years who smoke, is associated with  
(A) Cervical cancer  
(B)  Myocardial infarction  
(C) Fibro adenoma of breast  
(D) Breast cancer
067. Nucleoside reverse transcriptase inhibitor drugs used for Antiretroviral treatment include all, except  
(A) Didanosine  
(B) Zidovudine  
(C) Abacavir  
(D)  Nevirapine
068. The droplet spread is usually limited to a distance of \_\_\_\_\_ between source & host  
(A) 10-30 cm  
(B)  30-60cm  
(C) 60-80cm  
(D) All the above
069. All of the following statements are true about screening tests, except  
 (A) They are used as a basis for therapy  
(B) They are done on apparently healthy individuals  
(C) They are measured by sensitivity and specificity  
(D) They are applicable to large numbers of individuals
070. Confirmatory evidence of recent faecal contamination is done by the presence of  
(A) Coliform organisms  
(B)  Faecal streptococci  
(C) Spore of *cl. perfringens*  
(D) All of the above
071. Services provided by a fully functional First Referral Unit include all, except  
(A) Emergency obstetric care  
(B) New-born care  
(C) Twenty-four hours delivery services  
(D)  Blood bank facility



072. All the following are different types of association between a disease & suspected factor, except
- (A) Spurious association (B) Indirect association  
 (C) Biologic plausibility (D) Direct (causal) association
073. The effective size of sand particles in rapid sand filter bed is
- (A) 0.2-0.3mm (B)  0.4-0.7mm  
 (C) 0.5-0.8mm (D) 0.8-1.0mm
074. Establishment of the National Institute of Health Administration and Education at Delhi has been supported by
- (A) Colombo Plan  
 (B) Rockefeller Foundation  
 (C) Cooperative for Assistance and Relief Everywhere  
 (D) Ford Foundation
075. All are true of the standard error of the mean of a sample, except
- (A) An estimate of the standard deviation of the population  
 (B) Based on normal distribution  
 (C) Increases as the sample size increases  
 (D) Used to determine confidence limits
076. The food support in ICDS programme is supported by \_\_\_\_\_ agency
- (A) Rockefeller foundation  
 (B) Ford foundation  
 (C) Cooperative for assistance and relief everywhere  
 (D) International red cross
077. The first step in conducting an epidemic investigation is to
- (A) Determine the population at risk (B) Determine the incubation period  
 (C) Collect appropriate samples (D)  Verify the diagnosis
078. Type of bias eliminated by randomization in random control trials is
- (A) Selection bias (B) Recall or memory bias  
 (C) Bias due to confounding (D) All of the above
079. Population growth rate is called explosive when annual rate of growth% is \_\_\_\_\_
- (A) 0.5 to 1.0 (B) 1.0 to 1.5  
 (C) 1.5 to 2.0 (D)  >2.0 & above
080. John Snow's discovery that cholera is a water-borne disease was the outcome of a
- (A) Uncontrolled trial (B)  Natural experiment  
 (C) Before and after comparison study (D) Clinical trial
081. Normal distribution curve is determined by the
- (A) Mean and sample size (B)  Mean and standard deviation  
 (C) Range and standard deviation (D) Range and sample size

082. The discomfort felt by an individual in ill ventilated & crowded rooms is due to all of the following, except
- (A) Increased carbon dioxide (B) Increased temperature  
(C) Increased humidity (D) Heat radiation
083. The main vector for Brugianfilariasis in India is
- (A) Culexquinquefasciatus (B) Anopheles stephensi  
(C) Aedesegypti (D) Mansoniaannulifers
084. The most direct & important source of air pollution, affecting health of man & people is due to
- (A) Automobile emissions (B) Industrial emissions  
(C) Domestic emissions (D) Tobacco smoke
085. The depth of water seal in RCA latrine is \_\_\_\_\_
- (A)  $\frac{1}{2}$  inch (B)  $\frac{3}{4}$  inch  
(C) 1 inch (D)  $1\frac{1}{4}$  inch
086. The size range of dust responsible for pneumoconiosis is
- (A) Less than 0.2 micron (B) 0.5 to 3 micron  
(C) 5.0 to 10 micron (D) More than 10 micron
087. In the living rooms, the recommended number of air changes is
- (A) 1 in one hour (B) 2 or 3 in one hour  
(C) 4 or 6 in one hour (D) 6 to 8 in one hour
088. The recommended area per swimmer in a swimming pool should be
- (A) 1.2 sq.m (B) 1.4 sq.m  
(C) 2.2 sq.m (D) 2.4 sq.m
089. The killing power of a disease is represented by
- (A) Proportional mortality rate (B) Standardized death rate  
(C) Crude death rate (D) Case fatality rate
090. The proposed guideline value for radiation in drinking water due to gross alpha activity is \_\_\_\_\_
- (A) 0.50bq/l (B) 0.75bq/l  
(C) 1.0bq/l (D) >1.0bq/l
091. The distance of a value (x) from the mean ( $\bar{x}$ ) of the curve in units of standard deviation is called \_\_\_\_\_
- (A) Relative deviate (B) Standard deviate  
(C) Normal deviate (D) All of the above

092. Principles of health education include all, except  
 (A) Participation (B) Unknown to known  
 (C) Comprehension (D) Setting an example
093. Some amount of self-purification of river water takes place due to which of following processes, except  
 (A) Sedimentation (B) Oxidation  
 (C) Animal activity (D) Dilution
094. The following is an example of toxoid  
 (A) Varicella (B) Pertussis  
 (C) Typhus (D) Botulinum
095. The age pyramid of developed country has \_\_\_\_\_  
 (A) Broad base & tapering apex (B) Broad base & median bulge  
 (C) Narrow base & median bulge (D) Narrow base & narrow apex
096. The breeding habits of anophelines, culicines and aedesare respectively is as follows  
 (A) Fresh, dirty & artificial waters (B) Fresh, artificial & dirty water  
 (C) Artificial, dirty & fresh waters (D) Artificial, fresh & dirty waters
097. Failure of the heat regulating mechanism leads to  
 (A) Heat hyperpyrexia (B) Heat exhaustion  
 (C) Heat stroke (D) Heat syncope
098. Rapid economic development is identified by which of the following factor  
 (A) Decline in dependency ratio (B) Decline in child dependency ratio  
 (C) Decline in old age dependence ratio (D) Both (A) and (B)
099. The correct sequence of phases in nuclear family life cycle is  
 (A) Extension, contraction, dissolution and formation  
 (B) Formation, contraction, extension and dissolution  
 (C) Extension, formation, dissolution and contraction  
 (D) Formation, extension, contraction and dissolution
100. Total fertility rate represents  
 (A) Number of live births in a year to 1000 women  
 (B) The average number of children a woman would have if she were to pass through the women now in each age group  
 (C) The average number of girls that would be born to a woman if she experiences the current fertility pattern throughout her reproductive span  
 (D) The number of daughters a new-born girl will bear during her lifetime assuming fixed age-specific fertility & mortality rate
101. The functions of the Union health Ministry under the union list include all, except  
 (A) Economic and social planning  
 (B) Immigration and emigration  
 (C) Establishment and maintenance of drug standards  
 (D) International health regulations

102. Which of the following contraceptive method does not belong to chemical method  
 (A) Foam tablets & aerosols (B) Diaphragm  
 (C) Creams, jellies & pastes (D) Soluble films
103. Example for latent infection is  
 (A) Hepatitis A (B) Herpes simplex  
 (C) Measles (D) Mumps
104. The number of eligible couples per 1000 population in India is \_\_\_\_\_  
 (A) 120-150 couples (B) 150-180 couples  
 (C) 180-210 couples (D) 210-240 couples
105. A child aged two years with history of cough and cold having a respiratory rate of 46 per minute without chest in drawing, shall be classified by a health worker as  
 (A) Very severe pneumonia (B) Severe pneumonia  
 (C) Pneumonia (D) No pneumonia, only cough and cold
106. The diaphragm, a vaginal barrier contraceptive is also known as  
 (A) Dutch cap (B) French cap  
 (C) English cap (D) None of the above
107. The number of doses for pre-exposure prophylaxis of rabies is  
 (A) 1 (B) 2  
 (C) 3 (D) 4
108. Non contraceptive benefits of oral contraceptive pill include protection from all of the below, except  
 (A) Benign breast disorders  
 (B) Ovarian cyst & pelvic inflammatory disease  
 (C) Ectopic pregnancy & ovarian cancer  
 (D) Hepatocellular adenoma & gall bladder disease
109. Direct nutritional intervention measure to improve nutritional status of mother & children include all of the following, except  
 (A) Supplementary feeding programme (B) Iron & folic acid distribution  
 (C) Fortification & enrichment of foods (D) Food hygiene
110. 8<sup>th</sup> day disease is  
 (A) Tetanus neonatarum (B) Ophthalmianeonatarum  
 (C) Asphyxia neonatarum (D) Neonatal hypothyroidism
111. The energy value of breast milk is \_\_\_\_\_  
 (A) 50 kcal/100ml (B) 60 kcal/100ml  
 (C) 70 kcal/100ml (D) 80 kcal/100ml
112. Glycosylated haemoglobin reflects the mean blood glucose levels of previous  
 (A) 1 month (B) 2-3 months  
 (C) 6 months (D) 8 months

113. Single most important factor determining the survival chances of the child is \_\_\_\_\_  
(A) Preterm babies (B) Small for date babies  
(C) Low birth weight (D) All of the above
114. The international certificate of vaccination against yellow fever becomes valid  
(A) 3 days after the date of vaccination (B) 6 days after the date of vaccination  
(C) 8 days after the date of vaccination (D) 10 days after the date of vaccination
115. The growth or road to health chart is first designed by \_\_\_\_\_ and later modified by who  
(A) Hector Martinez (B) Edzar Rey  
(C) David Morley (D) W. E. Nelson
116. Minimum of 4 visits covering the entire period of pregnancy is scheduled as below  
(A) 1<sup>st</sup> visit-before 12 weeks; 2<sup>nd</sup> visit-between 14 & 26 weeks; 3<sup>rd</sup> visit-between 28 & 34 weeks & 4<sup>th</sup> visit-between 36 weeks & term  
(B) 1<sup>st</sup> visit-between 12<sup>th</sup> & 16<sup>th</sup> week; 2<sup>nd</sup> visit-between 16 & 26 weeks; 3<sup>rd</sup> visit-between 28 & 34 weeks & 4<sup>th</sup> visit-between 36 weeks & term  
(C) 1<sup>st</sup> visit-between 12<sup>th</sup> & 16<sup>th</sup> week; 2<sup>nd</sup> visit-between 16 & 24 weeks; 3<sup>rd</sup> visit-between 28 & 34 weeks & 4<sup>th</sup> visit-between 36 weeks & term  
(D) 1<sup>st</sup> visit-between 12<sup>th</sup> & 16<sup>th</sup> week; 2<sup>nd</sup> visit-between 16 & 26 weeks; 3<sup>rd</sup> visit-between 28 & 36 weeks & 4<sup>th</sup> visit-between 36 weeks & term
117. The case fatality rate in untreated pneumonic plague is  
(A) 50 per cent (B) 70 per cent  
(C) 90 per cent (D) 100 per cent
118. Indication for prophylactic treatment with platelet transfusion in dengue haemorrhagic fever is \_\_\_\_\_  
(A) When platelet count is at level of <40000/cu.mm  
(B) When platelet count is at level of <30000/cu.mm  
(C) When platelet count is at level of <20000/cu.mm  
(D) When platelet count is at level of <10000/cu.mm
119. The commonest complaint of women fitted with an iud is \_\_\_\_\_  
(A) Low back ache (B) Pelvic infection  
(C) Increased vaginal bleeding (D) Expulsion
120. Congenital rubella is  
(A) An acute infection (B) A chronic infection  
(C) A latent infection (D) A non-communicable condition
121. Rubella infection during the first trimester of pregnancy results in abnormalities in the infants in about  
(A) 50 per cent of cases (B) 60 per cent of cases  
(C) 75 per cent of cases (D) 85 per cent of cases

122. Uses of epidemiology include all, except  
 (A) Evaluate drug therapy  
 (B) Plan future health needs of the community  
 (C) Determine a patient's diagnosis  
 (D) Help in completing the natural history of disease
123. In di ethyl carbamazine (DEC)-medicated salt, the amount of DEC added to 1 kg common salt to control filariasis in endemic areas is \_\_\_\_\_  
 (A) <1 g of DEC/kg salt  
 (B) 1-4 g of DEC /kg salt  
 (C) 5-8 g of DEC /kg salt  
 (D) >8 g of DEC /kg salt
124. High risk antenatal cases include all, except  
 (A) Elderly primi  
 (B) Gravida 3  
 (C) Twin pregnancy  
 (D) Eclampsia
125. On an average normal healthy woman gains about \_\_\_\_\_ of weight during pregnancy  
 (A) < 6.5kgs  
 (B) 6-9kgs  
 (C) 9-11kgs  
 (D) > 11kgs
126. An area is declared free of cholera during epidemics, when there is no case after  
 (A) 2 days since the last case  
 (B) 5 days since the last case  
 (C) 10 days since the last case  
 (D) 20 days since the last case
127. Natural family planning method includes all of the following, except  
 (A) Basal body temperature method  
 (B) Lactational amenorrhea method  
 (C) Cervical mucus method  
 (D) Symptothermic method
128. The failure rate of third generation-levonorgestrel IUD is  
 (A) 0.2 per 100 women years  
 (B) 0.4 per 100 women years  
 (C) 0.6 per 100 women years  
 (D) 0.8 per 100 women years
129. The denominator in the predictive value of a negative test is  
 (A) True positive + False positive  
 (B) True negative + False negative  
 (C) True positive + False negative  
 (D) True negative + False positive
130. The major side effect of ethambutol is  
 (A) Rash  
 (B) Hearing loss  
 (C) Visual disturbance  
 (D) Jaundic
131. Complications of postpartum period include all, except  
 (A) Puerperal sepsis  
 (B) Thrombophlebitis  
 (C) Secondary haemorrhage  
 (D) Fibroadenosis of breast
132. Iceberg phenomenon is not observed in this disease  
 (A) Rabies  
 (B) Poliomyelitis  
 (C) Hypertension  
 (D) Diabetes



143. Residual insecticides include all, except  
(A) Dichloro-diphenyl-trichloroethane (B) Hexachlorocyclo-hexane  
(C) Pyrethrum (D) Malathion
144. In plain areas the norm of selection is one Accredited Social Health Activist for  
(A) 500 population (B) 800 population  
(C) 1000 population (D) 1200 population
145. Maternal varicella during pregnancy causes all, except  
(A) Atrophied limbs (B) Microcephaly  
(C) Cardiac malformations (D) Deafness
146. Which of the following disease is not autosomal dominant  
(A) Achondroplasia (B) G6PD deficiency  
(C) Retinoblastoma (D) Polycystic kidney
147. The indicators used in end TB strategy include all of the following, except  
(A) Reduction in number of TB deaths compared to 2015 (%)  
(B) Reduction in TB incidence rate compared with 2015(%)  
(C) Tb affected families facing catastrophic costs due to TB to 2015 (%)  
(D) Tb affected families facing catastrophic costs due to TB to zero
148. An attribute or exposure that is significantly associated with the development of a disease is called as  
(A) Agent factor (B) Risk factor  
(C) Host factor (D) Causative factor
149. Which of the following management method is based on quantitative methods  
(A) Cost benefit analysis (B) Systems analysis  
(C) Information systems (D) Network analysis
150. Gaps in the natural history of chronic diseases include all, except  
(A) Absence of a known agent (B) Multifactorial causation  
(C) Definite onset (D) Long latent period
151. Diagnosis of measles is based on which of the following  
(A) Typical macular or maculo-papular rash  
(B) Koplik's spots in oral mucosa  
(C) Febrile exanthema with red eyes & cough  
(D) All of the above
152. 3 months of training in preventive & social medicine for preparing social physicians is proposed by  
(A) Bhore committee (B) Mudaliar committee  
(C) Shrivastav committee (D) Kartarsingh committee



153. Post-exposure prophylaxis for HIV should be offered ideally within  
 (A) 72 hours (B) 96 hours  
(C) 120 hours (D) 144 hours
154. The work hours prescribed by factories act is \_\_\_\_\_  
(A) 46 hours/week, not exceeding 8 hours/day  
(B) 46 hours/week, not exceeding 9 hours/day  
(C) 48 hours/week, not exceeding 8 hours/day  
 (D) 48 hours/week, not exceeding 9 hours/day
155. Recommendations of the Bhole committee include all, except  
(A) Integration of preventive and curative services at all levels  
(B) Development of primary health centres  
(C) Three month's training in preventive and social medicine to prepare social physicians  
 (D) Constitution of an All India Health Service
156. In which of the following route lead is absorbed into body  
(A) Inhalation (B) Ingestion  
(C) Contact with skin  (D) All of the above
157. The morbidity rate, which is not influenced by the duration of the disease, is  
(A) Prevalence  (B) Incidence  
(C) Case fatality rate (D) Disability rate
158. In the pre-vaccination era, measles appeared in cycles with major peaks once every  
 (A) 2 – 3 years (B) 6 – 9 years  
(C) 7 – 10 years (D) 10 – 12 years
159. India was declared as non-endemic for country for polio on \_\_\_\_\_  
(A) 13<sup>th</sup> January 2011 (B) 27<sup>th</sup> March 2011  
(C) 13<sup>th</sup> January 2014  (D) 27<sup>th</sup> March 2014
160. For assessment of obesity, the accurate measurement is possible with which one of the following  
(A) Body mass index (B) Skin fold thickness  
(C) Waist hip ratio  (D) Total body water or potassium estimation
161. According to the children act, 1960 in India a juvenile means \_\_\_\_\_  
(A) Boy not attained age 14 years & a girl who has not attained age 16 years  
(B) Boy not attained age 15 years & a girl who has not attained age 17 years  
 (C) Boy not attained age 16 years & a girl who has not attained age 18 years  
(D) Boy not attained age 18 years & a girl who has not attained age 20 years
162. Danger signals of cancer include all, except  
(A) A change in a wart or mole  
(B) A persistent cough or hoarseness  
 (C) Unexplained weight gain  
(D) A persistent change in digestive and bowel habits

163. Recommended level of fluorides in drinking water in India is  
 (A) 0.2 to 0.4 mg per litre (B) 0.5 to 0.8 mg per litre  
 (C) 1.5 to 2.8 mg per litre (D) 3.0 to 6.0 mg per litre
164. Antigenic drift in influenza results from  
 (A) Shift in H antigen (B) Major antigenic change  
 (C) Genetic recombination (D) Point mutation
165. Health care delivery indicators include all, except  
 (A) Doctor-population ratio (B) Doctor-nurse ratio  
 (C) Bed turnover ratio (D) Population-bed ratio
166. Which of the following is not an essential amino acid  
 (A) Phenylalanine (B) Proline  
 (C) Tryptophan (D) Histidine
167. Widely used parameters of malaria surveillance include all, except  
 (A) Infant parasite rate (B) Annual parasite incidence  
 (C) Slide positivity rate (D) Annual blood examination rate
168. The causes for sickness absenteeism include all of the following, except  
 (A) Economic causes (B) Social causes  
 (C) Medical causes (D) All of the above
169. To implement the policy of universal coverage & equitable distribution of health resources, the following schemes are in operation  
 (A) Asha scheme (B) Icds scheme  
 (C) Training of local dais (D) All of the above
170. The chemical waste generated in health care waste is disposed by collecting it in \_\_\_\_\_ colour container  
 (A) Yellow (B) Red  
 (C) Green (D) Black
171. Quetelet's index is  
 (A) Lorentz's formula (B) Brocca index  
 (C) Body mass index (D) Ponderal index
172. Books can be disinfected by  
 (A) Alcohol (B) Iodine  
 (C) Iodophores (D) Formaldehyde gas
173. India has entered this stage of demographic cycle  
 (A) High stationary stage (B) Early expanding stage  
 (C) Late expanding stage (D) Low stationary stage
174. The signs of fresh fish are all of the following, except  
 (A) The gills are bright red (B) It is in a state of stiffness or rigor mortis  
 (C) Elastic to touch (D) The eyes are clear & prominent

175. Example of dead-end infection is  
 (A) Pneumonic plague (B) Bubonic plague  
 (C) Measles (D) Tuberculosis
176. Hypercupraemia due to excessive intake of copper resulting from eating food prepared in copper cooking vessel is associated with the following, except  
 (A) Leukaemia & Hodgkin's disease (B) Severe anaemia & hemochromatosis  
 (C) Hypothyroidism (D) Myocardial infarction
177. In asbestosis, the chest X-ray shows \_\_\_\_\_  
 (A) Snow storm appearance (B) Ground glass appearance  
 (C) Hour glass appearance (D) Mottling in lung or shadows
178. Zika virus disease is transmitted by the vector  
 (A) Anopheles culicifacies (B) Culexfatigans  
 (C) Mansoniauniformis (D) Aedesaegypti
179. \_\_\_\_\_ are the most powerful designs possible in medical research  
 (A) Randomized controlled clinical trials (B) Non-randomized trials  
 (C) Well-designed cohort study (D) All of the above
180. Meaning of the Latin word botulus is  
 (A) Salads (B) Sausage  
 (C) Smoked fish (D) Custard
181. An integrated package of early childhood services in ICDS consists of all of the following, except  
 (A) Supplementary nutrition & immunization  
 (B) Health check-up & medical referral services  
 (C) Nutrition & health education for women  
 (D) Formal education of children up to the age of 6 years
182. Depending upon the expected prevalence, the recommended sample size in the evaluation of Rheumatic Heart Disease Control Programme is  
 (A) 5,000 – 10,000 children (B) 20,000 – 30,000 children  
 (C) 40,000 – 50,000 children (D) 60,000 – 70,000 children
183. The risk of being involved in a crash significantly increases above a blood alcohol concentration \_\_\_\_\_  
 (A) 0.01g/dl (B) 0.02g/dl  
 (C) 0.03g/dl (D) 0.04g/dl
184. "Something for all, but more for those in need - in proportion to the need" is called as  
 (A) Service approach (B) Extension approach  
 (C) Risk approach (D) Primary health care approach
185. WHO defined blindness as visual acuity of less than  
 (A) 3/60 (Snellen) or its equivalent (B) 6/60 (Snellen) or its equivalent  
 (C) 6/18 (Snellen) or its equivalent (D) 6/12 (Snellen) or its equivalent

186. The study of the physical & psychological changes which are incident to old age is called \_\_\_\_\_  
(A) Gerontology (B) Clinical gerontology or geriatrics  
(C) Social gerontology (D) Experimental gerontology
187. The desirable dietary intake of fibre is \_\_\_\_\_ per 2000 kcal  
(A) 35 grams (B) 40 grams  
(C) 45 grams (D) 50 grams
188. Example of cryptic filariasis is  
(A) Epididymo-orchitis (B) Chyluria  
(C) Lymphoedema (D) Tropical pulmonary eosinophilia
189. High risk groups for diabetes mellitus include all, except  
(A) Those in the age group 40 and over  
(B) Those with a family history of diabetes  
(C) Women who show weight gain during pregnancy  
(D) Patients with premature atherosclerosis
190. The toxin present in lathyrus seeds (BOAA) may be removed by which of following methods  
(A) Steeping method (B) Parboiling  
(C) Genetic approach (D) All of the above
191. The functions of the Union Health Ministry under the Concurrent list include all, except  
(A) Control of drugs and poisons  
(B) Vital statistics  
(C) Prevention of adulteration of foodstuffs  
(D) Regulation of labour in mines and oil fields
192. The reconstituted measles vaccine must be used within  
(A) 4 hours (B) 8 hours  
(C) 12 hours (D) 24 hours
193. In the motivation model of health education, the sequence of events are as follows  
(A) Awareness, motivation and action (B) Motivation, awareness, interest and action  
(C) Both (A) and (B) (D) None of the above
194. The possibility of a disease or condition in a given patient is based on which of the following information  
(A) The prevalence of the condition (B) Sensitivity of the test  
(C) Specificity of the test (D) All of the above
195. Under Integrated Child Development Services scheme, severely malnourished child aged 6 = 72 months gets  
(A) 500 calories and 10-12 grams of protein  
(B) 600 calories and 18-20 grams of protein  
(C) 800 calories and 20-25 grams of protein  
(D) 1000 calories and 30-35 grams of protein

196. Which of the following is not an engineering measure for prevention of occupational disease
- (A) Design of building (B) Mechanization  
(C) Enclosure (D) Notification
197. In hilly, tribal and backward areas, one sub-centre caters to every
- (A) 1,000 population (B) 3,000 population  
(C) 5,000 population (D) 10,000 population
198. What will be the Body Mass Index (BMI) of a person whose weight is 87 kg and height is 170 cm?
- (A) 27 (B) 30  
(C) 35 (D) 40
199. All are true regarding induration size  $\geq 5$  mm in tuberculin skintest, except
- (A) HIV-positive person  
(B) Recent contacts of individual with active tuberculosis  
(C) A person with no risk factors for tuberculosis  
(D) Persons with fibrotic changes on chest film suggestive of prior tuberculosis
200. Endemic as cited, a food borne intoxication is due to presence of \_\_\_\_\_
- (A) Beta oxalyl amino alanine (B) Pyrrolizidine alkaloids  
(C) Trycresynphospate (D) Pesticide residues-DDT, BHC