

Health Officer

DOE. 14-8-11

KIND

Register Number

2011
SOCIAL AND PREVENTIVE MEDICINE *(Degree 511)*

Time Allowed : 3 Hours]

[Maximum Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

1. This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open it at the commencement of the examination. As soon as the signal is received you should tear the right side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
2. This Question Booklet contains **200** questions.
3. Answer **all** questions.
4. **All** questions carry equal marks.
5. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
6. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers. You must write your Name, Register No. and other particulars on side 1 of the Answer Sheet provided, failing which your Answer Sheet will not be evaluated.
7. You will also encode your Register Number, Subject Code etc., with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, your Answer Sheet will not be evaluated.
8. Each question comprises *four* responses (A), (B), (C) and (D). You are to select **ONLY ONE** correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
9. In the Answer Sheet there are **four** brackets [A] [B] [C] and [D] against each question. To answer the questions you are to mark with Ball point pen **ONLY ONE** bracket of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows :

[A] [C] [D]

10. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
11. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.
12. Do not tick-mark or mark the answers in the Question Booklet.

Tear here X DO NOT TEAR THIS COVER OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO X Tear here

1. The term 'Social medicine' was first introduced by
 - A) Jules Guerin
 - B) Alfred Grofjahn
 - C) Crew
 - D) John Ryle.
2. At health centre, if the refrigerator temperature is strictly kept between 4-8 degree C, most vaccines (except polio) can be stored up to
 - A) 2 weeks
 - B) 5 weeks
 - C) 2 months
 - D) 5 months.
3. Which one of the following branches studies the relationship between organisms and environment ?
 - A) Ergonomics
 - B) Ecology
 - C) Emporiiatrics
 - D) Social physiology.
4. The study design where the population is the unit of study is
 - A) Cross-sectional study
 - B) Ecological study
 - C) Case control study
 - D) Cohort study.
5. All are intervention aimed at specific protection *except*
 - A) screening for diabetes
 - B) use of helmets
 - C) avoidance of allergen
 - D) chemoprophylaxis.
6. The following are true about prevalence *except*
 - A) helps to estimate the magnitude of disease in the community
 - B) helps to plan hospital beds, manpower needs, etc.
 - C) helps to assess number of new cases in a defined population
 - D) helps to identify potential high risk population.
7. The sensitive indicator of effectiveness of health care is
 - A) IMR
 - B) MMR
 - C) CBR
 - D) CDR.
8. The term 'Anthropozoonosis' means
 - A) infections transmitted to man from vertebrate animals
 - B) infections transmitted from man to vertebrate animals
 - C) infections maintained both in man and lower vertebrate animals in either direction
 - D) infections transmitted from man to invertebrate animals.

9. Hot air is not suitable for disinfection of
- | | |
|---------------|-----------------------|
| A) mattresses | B) glassware |
| C) syringes | D) sharp instruments. |
10. Measure of the burden of disease in a defined population is
- | | |
|---------------------|----------------|
| A) DALY | B) HALE |
| C) Sullivan's index | D) Life table. |
11. Which is not an explanation for cyclical trend of disease ?
- | | |
|-----------------------------|-----------------------------|
| A) Herd immunity variation | B) Environmental conditions |
| C) Build up of susceptibles | D) Antigenic variation. |
12. A test with high sensitivity
- | |
|--|
| A) gives high assurance that an individual has the disease |
| B) gives high assurance that an individual does not have the disease |
| C) detects a high percentage of those who have the disease |
| D) detects a high percentage of those who do not have the disease. |
13. Passive immunity is induced by all of the following *except*
- | |
|--|
| A) by administration of immunoglobulin |
| B) by transfer of maternal antibodies |
| C) by transfer of lymphocytes |
| D) by administration of vaccines. |
14. The screening tests used in Antenatal mothers under RCH II are all *except*
- | | |
|----------------------|--------------------------------------|
| A) Haemoglobin level | B) TSH level |
| C) Rh determination | D) Urinary Deposit analysis for UTI. |
15. Screening test used for assessing bacterial contamination of water is
- | | |
|----------------------|----------------------------------|
| A) Zooglear layer | B) Presumptive test for coliform |
| C) Superchlorination | D) Orthotoluidene test. |
16. In a surveillance program, data reporting can be done as
- | | |
|----------------|---------------|
| A) Actual data | B) Graphs |
| C) Codes | D) Telepathy. |

17. The surveillance reporting system used by the World Health Organisation is
- A) Morbidity and Mortality Weekly Report
 - B) Technical Report Series
 - C) WHO Bulletin
 - D) Weekly Epidemiology Report.
18. The Intelligence Quotient of an Idiot is
- A) 0 — 24
 - B) 25 — 49
 - C) 50 — 69
 - D) 70 — 79.
19. The surveillance system in countries where detailed reporting system for sexually transmitted illnesses does not exist is
- A) Routine reporting
 - B) Sentinel surveillance
 - C) Ad hoc survey
 - D) Population based sample surveys.
20. Laboratory report of diseases, presented in 'L form' is classified under IDSP as
- A) Syndromic diagnosis
 - B) Presumptive diagnosis
 - C) Confirmed diagnosis
 - D) Active surveillance.
21. Measles and poliomyelitis are reported under IDSP as
- A) Regular surveillance
 - B) Sentinel surveillance
 - C) Regular survey
 - D) Additional state priority.
22. Defence mechanisms to achieve health or happiness include the following *except*
- A) rationalization
 - B) split personality
 - C) escape mechanism
 - D) displacement.
23. Intelligence results from
- i. Hereditary factors
 - ii. Vocational factors
 - iii. Environmental factors
 - iv. Psychological factors
- Of these*
- A) all are correct
 - B) (i), (iii) & (iv) are correct
 - C) (i) & (iii) are correct
 - D) (ii) & (iv) are correct.

24. Carrier state is absent in
- A) Measles
 - B) Meningitis
 - C) Diphtheria
 - D) Typhoid.
25. Arrange the following in chronological order of occurrence :
- i. Hong Kong Influenza
 - ii. Avian Influenza
 - iii. Asian Influenza
 - iv. Spanish Influenza

The correct order is

- A) (ii), (iv), (iii), (i)
 - B) (iii), (iv), (i), (ii)
 - C) (iv), (iii), (i), (ii)
 - D) (i), (ii), (iv), (iii).
26. Endemic Index is
- A) the number of malarial parasites found in surveillance
 - B) the average number of fleas of all species per rodent
 - C) the percentage of rodents infested with various flea species
 - D) the average number of hookworm eggs per gram of faeces of the entire community.
27. A household differs from a family in that they are
- A) a group of individuals
 - B) sharing common kitchen
 - C) not blood-related
 - D) under one roof.

28. Match **List I** with **List II** correctly and select your answer using the codes given below :

	List I		List II	
a)	Scurb typhus		1)	<i>C. burnetti</i>
b)	Endemic typhus		2)	<i>R. rickettsii</i>
c)	Q fever		3)	<i>R. tsutsugamushi</i>
d)	Rockey Mountain Spotted fever		4)	<i>R. typhi.</i>

Codes :

	a	b	c	d
A)	3	4	1	2
B)	4	1	2	3
C)	2	3	4	1
D)	1	4	2	3.

29. Reconstituted Measles vaccine should be used within
- A) $\frac{1}{2}$ an hour
 - B) 1 hour
 - C) 6 hours
 - D) 12 hours.
30. Kala azar is transmitted from person to person by
- A) *P. sergenti*
 - B) *C. fatigans*
 - C) *C. quinquefasciatus*
 - D) *P. argentipes.*
31. is the bridge between generations and a transfer point of civilization.
- A) A school
 - B) A family
 - C) A recreation club
 - D) An orphanage.
32. A state is said to be of High HIV prevalent if
- A) > 1% in high risk group
 - B) > 1% in antenatal women
 - C) > 0.1% in antenatal women
 - D) > 0.5% in high risk group.
33. The following measures are to be taken during a plague epidemic to be controlled except
- A) isolation of contacts
 - B) vaccination in the affected area
 - C) surveillance
 - D) chemoprophylaxis with tetracycline.
34. Which of the following statements on risk factors of coronary heart disease is correct ?
- A) VLDL is strongly associated with CHD rather than peripheral vascular disease
 - B) Cholesterol / HDL ratio of less than 3.5 is high risk to CHD
 - C) HDL increase is of higher risk than VLDL increase
 - D) Measurement of apolipoproteins determines the risk better.

35. Which of the following statements are correct about Hypertension ?
- i. Hypertension is an 'iceberg' disease
 - ii. Rule of halves is that half the population is hypertensive
 - iii. Higher level of blood pressure in childhood becomes higher as the individual grows older
 - iv. Potassium and calcium are important to reduce HT.

Of these

- | | |
|---------------------------|--------------------------------|
| A) all are true | B) (i) and (iii) are true |
| C) (ii) and (iv) are true | D) (i), (iii) & (iv) are true. |
36. Nicotine and Carbon monoxide increase the risk of cardiovascular diseases by the following factors *except*
- A) increases blood coagulation
 - B) interferes with oxygen delivery to myocardium
 - C) reduces the threshold for ventricular fibrillation
 - D) increases alveolar perfusion.
37. Control of smoking epidemic is by the following *except*
- A) public information and education
 - B) presymptomatic detection by sputum cytology
 - C) legislative and restrictive measures
 - D) smoking cessation activities.
38. Blindness is defined by WHO as visual acuity less than
- | | |
|-------------------|-------------------|
| A) $\frac{1}{60}$ | B) $\frac{6}{18}$ |
| C) $\frac{6}{60}$ | D) $\frac{3}{60}$ |
39. Arrange the following causes of accidental deaths in the order of incidence in India (2001) :
- i. Drowning
 - ii. Fire accidents
 - iii. Road Traffic accidents
 - iv. Poisoning.

The correct arrangement is

- | | |
|---------------------------|----------------------------|
| A) (i), (iii), (ii), (iv) | B) (ii), (iii), (iv), (i) |
| C) (iii), (iv), (i), (ii) | D) (iv), (iii), (i), (ii). |

40. Errors that can occur in the recording of blood pressure are the following *except*
- A) Subject error B) Observer error
 C) Interviewer error D) Instrumental error.
41. Secondary prevention trials in coronary heart disease have been done with the following drugs *except*
- A) Calcium channel blockers B) Antithrombotics
 C) Lipid lowering agents D) β -blockers.
42. Early warning signs of cancer that the public should be aware of are the following *except*
- A) a lump or hard area in the breast B) a change in a wart or mole
 C) a persistent cough D) unexplained weight gain.
43. Consider the following statements :

Assertion (A) : Cancer registration is not a must for cancer control programme

Reason (R) : Assessment of magnitude of the problem and planning necessary services is the base for cancer control programme.

Now select your answer according to the coding scheme given below :

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
 B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
 C) (A) is true, but (R) is false
 D) (A) is false, but (R) is true.
44. Arrange in order the steps for conducting an interview :
- i. Guiding the interview
 - ii. Starting an interview
 - iii. Recording
 - iv. Establishing contact
 - v. Probe questions.

The correct arrangement is

- A) (ii), (iv), (i), (v), (iii) B) (iv), (ii), (v), (i), (iii)
 C) (ii), (i), (iv), (iii), (v) D) (iii), (ii), (iv), (i), (v)

45. The gross income generated within the country is
A) GNP
B) GDP
C) NNP
D) NDP.
46. Which of the following is not true regarding measles ?
A) Caused by RNA virus
B) One attack gives life long immunity
C) Prodromal stage is not infectious
D) Higher mortality rate in malnourished children.
47. The states having more than 50% of highest quintile according to wealth index are
A) Punjab and Rajasthan
B) Delhi and Goa
C) Bihar and Jharkhand
D) Punjab and West Bengal.
48. Cultural factors that affect health and health behaviour are the following *except*
A) beliefs in supernatural causes
B) disposal of excreta
C) intake of balanced diet
D) prelacteal feeds.
49. The heart of the slow sand filter is
A) layer of sand bed
B) layer of gravel support
C) biological layer
D) layer of filter bottom.
50. Coefficient of haze is used for assessing the
A) sulphur dioxide
B) carbon monoxide
C) grit and dust
D) smoke.
51. Corrected effective temperature for the comfortable zone is
A) 20° C - 25° C
B) 25° C - 27° C
C) 27° C - 28° C
D) 28+ ° C.
52. Water seal is the distance between
A) level of water in the trap and the lowest point in the concave upper surface of the trap
B) level of water in the trap and the highest point in the concave upper surface of the trap
C) level of water in the trap and the lowest point in the concave lower surface of the trap
D) level of water in the trap and the highest point in the concave lower surface of the trap.

53. The following are true about radiation units *except*
- A) roentgen is the unit of exposure
 - B) 1 rad is equal to 0.05 Gy (gray)
 - C) 1 sievert is equal to 100 rems
 - D) rem is the product of the absorbed dose and the modifying factors.
54. The following are true regarding alpha particles *except*
- A) 10 times harmful as X-rays
 - B) little penetrating force
 - C) the penetrating ability in the lead is 0.05 mm
 - D) the penetrating ability in the air is 4 cm.
55. Trench method of refuse disposal is a type of
- A) composting
 - B) dumping
 - C) controlled tipping
 - D) burial.
56. The changes of filarial in the culex mosquito is
- A) Propagative
 - B) Cyclopropagative
 - C) Cyclodevelopmental
 - D) Convalescent.
57. Which one of the following mineral deficiencies is associated with mental ill health ?
- A) Calcium
 - B) Iron
 - C) Zinc
 - D) Iodine.
58. Commonest among diseases with Mendelian inheritance is
- A) Autosomal dominant
 - B) Autosomal recessive
 - C) X-linked recessive
 - D) X-linked dominant.
59. Population explosion is defined as annual growth rate is > than
- A) 0.5
 - B) 1
 - C) 1.5
 - D) 2.
60. Which of the following diseases is due to point mutation ?
- A) Diabetes mellitus
 - B) Porphyria
 - C) Sickle cell anaemia
 - D) Colour blindness.
61. Safety officers have to be appointed in factories where number of workers is more than
- A) 500
 - B) 1000
 - C) 2000
 - D) 4000.

62. Following are the qualifications to do termination of pregnancy *except*
- A) post-graduate qualification in obstetrics
 - B) one year of practice in obstetrics for those qualified after 1971
 - C) registered medical practitioner who has assisted in the performance of 25 cases of MTP in an approved institution
 - D) one year housemanship in obstetrics.
63. The Birth and Death Registration Act came into force on 1st April,
- A) 1968
 - B) 1969
 - C) 1970
 - D) 1971.
64. Under Maternity Benefit Act, a woman is entitled to leave with wages following the day of her miscarriage is for
- A) 2 weeks
 - B) 4 weeks
 - C) 6 weeks
 - D) 12 weeks.
65. For a woman, the minimum period of employment in an establishment required to be entitled to maternity benefit in a year under Maternity Benefit Act is
- A) 60 days
 - B) 80 days
 - C) 120 days
 - D) 160 days.
66. The time limit for registration of birth under Birth and Death Registration Act is
- A) 7
 - B) 14
 - C) 21
 - D) 28.
67. Under ESI Act service dispensaries are established in areas where employees family unit is more than
- A) 500
 - B) 750
 - C) 1000
 - D) 2000.
68. Maternity benefit is allowed at
- A) 7 / 12 of daily wages
 - B) half wages
 - C) quarter wages
 - D) full wages.

69. Dependant's benefit under ESI covers children up to the age of
A) 12 years B) 14 years
C) 16 years D) 18 years.
70. Incubation period for the development of anthracosis is
A) 6 months B) 6 years
C) 12 years D) 20 years.
71. Lay-reporting is done by using
A) medical social workers B) sanitary engineers
C) village health guides D) investigators.
72. Least toxic lead compound among the following is
A) lead arsenate B) lead oxide
C) lead carbonate D) lead sulphide.
73. Square root of deviation is known as
A) mean deviation B) standard deviation
C) arithmetic mean D) chi-square.
74. All are the characteristics of occupational cancer *except*
A) appearing after prolonged exposure
B) age incidence is earlier than that for cancer in general
C) cessation of exposure arrests development of cancer
D) localization of tumour for any one occupation is fairly constant.
75. Sickness absenteeism is useful index to assess
A) state of health of the workers B) worker-management relationship
C) working environment D) sincerity of workers.
76. All of the following are true for occupational lead poisoning *except*
A) inhalation is the most common mode of absorption
B) lead in blood and urine provide quantitative indicators of exposure
C) average blood is more important than number of subjects with blood levels above threshold
D) basophilic stippling is a sensitive parameter of hematological response.

77. Which among the following is a sensitive indicator of demographic events ?
- A) Life expectancy
 - B) Annual growth rate
 - C) Family size
 - D) Net reproduction rate.
78. Which of the following functions of the Ministry of Health and Family Welfare fall under the concurrent list ?
- A) Vital statistics
 - B) Medical education
 - C) Health in mines
 - D) Drug standards.
79. The literacy rate of Indian population as per census of 2001 is
- A) 57.35 %
 - B) 62.38 %
 - C) 65.38 %
 - D) 67.35 %.
80. Effectiveness of Disease Surveillance System as a management tool can be improved by having
- A) multiple registers
 - B) many data entry operators
 - C) standard case definitions
 - D) secrecy and confidentiality.
81. Management tool for time management is
- A) MBO
 - B) Model
 - C) Systems analysis
 - D) Network analysis.
82. In the Critical Path Method of management the critical path is
- A) the longest path
 - B) the shortest path
 - C) vital path
 - D) supervised path.
83. Essential feature in zero base budgeting is that
- A) all activities of previous year must be continued
 - B) budget has to be specifically justified each year
 - C) allotment gets increasing each year
 - D) used in new projects.
84. 'Ideal Male Pill' has the following criteria *except*
- A) prevents spermatogenesis
 - B) does not change the constituents of seminal fluid
 - C) prevents sperm transport in vas
 - D) interferes with sperm maturation.

85. The formula for coefficient of variations is
- A) $\frac{\text{Mean} \times 100}{\text{Standard deviation}}$
 - B) $(\text{Mean} \pm \text{Standard deviation}) \times 100$
 - C) $\frac{\text{Standard deviation}}{\text{Mean}} \times 100$
 - D) $\left(\frac{1}{\text{Mean} + \text{Standard deviation}} \right) \times 100.$
86. Conventionally, on either side of the mean is taken as the limits of variability.
- A) $1.96 \times \text{S.E.}$
 - B) $1.97 \times \text{S.E.}$
 - C) $2.07 \times \text{S.E.}$
 - D) $2.14 \times \text{S.E.}$
87. National Nutritional Anaemia Prophylaxis Programme was started in the year
- A) 1969
 - B) 1970
 - C) 1971
 - D) 1972.
88. Under reproductive child health programme, to prevent vitamin A deficiency among children under 5 years, the first dose of vitamin A is given at
- A) 11 months
 - B) 6 months
 - C) 9 months
 - D) 1 year.
89. The gross income generated within the country & income generated from abroad is
- A) GDP
 - B) GNP
 - C) Per capita income
 - D) PPBS.
90. Which among the following has dual recording system ?
- A) Census
 - B) Sample registration system
 - C) Notification of diseases
 - D) Record linkage.
91. Which of the following is a non-parametric test ?
- A) 't' test
 - B) 'Z' test
 - C) 'F' test
 - D) Chi-square test.

92. Which of the following is a promising tool of application in health field ?
- A) Cost Benefit Analysis B) Cost-effective Analysis
C) Cost Accounting D) Model.
93. Allocation of resources in most effective way for achieving objectives is done by
- A) Budgeting B) Work sampling
C) Decision analysis D) Management by objectives.
94. The optimum unit of preventive, curative and promotional services in health care indicates
- A) Appropriateness B) Comprehensiveness
C) Adequacy D) Availability.
95. In District Blindness Control Society, the Chairman is
- A) District Collector
B) Professor of Ophthalmology in the District Medical College
C) Block Medical Officer
D) Principal of Ophthalmic Assistant Training College.
96. Technique of health education based on dissemination about scientific facts of health is model.
- A) Motivation B) Social Intervention
C) Medical D) none of these.
97. Which among the following is not a principle of health education ?
- A) Relevant message B) People's background knowledge
C) Intersectoral coordination D) Appropriate medium.
98. The qualities of leadership are all *except*
- A) selfish
B) considerate
C) honest
D) achieving coordination among various NGOs.
99. Which among the following is not a pure visual aid ?
- A) Television B) Flannelgraph
C) Models D) Leaflets.

100. Which among the following is a didactic method of communication of learning ?
- A) Lectures
 B) Symposium
 C) Focus group discussion
 D) Role play.
101. Which among the following is a behavioural barrier of communication ?
- A) Rigid personality
 B) Poor intelligence levels
 C) Comprehension difficulties
 D) Blindness.
102. Which among the following is a feature of mass media communication ?
- A) Provides opportunity for asking questions
 B) More influential with average educational level
 C) Can get people to make changes in personal habits
 D) Reaches the widest population.
103. Which among the following is a feature of personal communication ?
- A) Provides opportunity for learning more
 B) Gets public attention
 C) Most effective among above average people
 D) Reaches the widest population.
104. Which among the following is not true regarding lecture ?
- A) Learning is minimum
 B) Learning is passive
 C) Stimulates thinking
 D) Health behaviour of listeners is not necessarily affected.
105. Which among the following is not true regarding counselling ?
- A) Important part of disease prevention
 B) Positive attitudes
 C) Implies force
 D) Implies choice.

106. Objective and systematic way of evaluation of the physician's performance is
- A) Medical audit
 - B) Sample survey
 - C) Time motion studies
 - D) GANTT evaluation.
107. NACO launched National Pediatric AIDS Initiative on
- A) October 2, 2005
 - B) October 30, 2008
 - C) November 2, 2010
 - D) November 30, 2006.
108. Protein from which of the following sources is biologically incomplete ?
- A) Bengal gram
 - B) Egg
 - C) Cheese
 - D) Fish.
109. The RDA of retinol for an adult male is μ gm/day.
- A) 300
 - B) 400
 - C) 500
 - D) 600.
110. Which of the following is due to vitamin A deficiency ?
- A) Bitot spot in a 10 year old
 - B) Dimness of vision at night in an adult
 - C) Dull, dry, non-wettable cornea in a child
 - D) Skin desquamation.
111. Which of the following food contains vitamin C ?
- A) Egg
 - B) Milk
 - C) Guava
 - D) Rice.
112. Fermentation of pulses increases the following *except*
- A) Riboflavin
 - B) Thiamine
 - C) Niacin
 - D) Ascorbic acid.

113. Which of the following foodstuffs contains high amounts of oligosaccharides ?

- | | |
|----------------|-----------|
| A) Bengal gram | B) Rice |
| C) Mango | D) Dates. |

114. Pasteurization of milk

- A) does not kill heat resistant tubercle bacilli
- B) does not kill thermoduric bacteria
- C) destroys all microorganisms
- D) destroys all coliforms.

115. Match **List I** with **List II** correctly and select your answer using the codes given below :

List I	List II
a) Turmeric powder	1) dried papaya seeds
b) Black pepper	2) black gram husk
c) Tea leaves	3) starch
d) Ice cream	4) lead chromate powder.

Codes :

	a	b	c	d
A)	1	4	3	2
B)	4	3	2	1
C)	1	2	3	4
D)	4	1	2	3.

116. Target in the Health Planning and Management indicates

- A) degree of achievement
- B) planned end point of all activities
- C) the ultimate desired state towards which objectives and resources are directed
- D) a set of rules for carrying out a work.

117. Which of the following is *not true* about wheat ?

- A) Protein content is 12 gms % B) Limiting amino acid is lysine
C) It is a good source of vitamin C D) It is deficient in threonine.

118. In temperate countries the optimum level of fluorides in drinking water is mg/lit.

- A) 0.5 - 0.8 B) 0.8 - 1.0
C) 1.0 - 2.0 D) 2.0 - 3.0.

119. Which one of the following Health Committees recommended the 'Vigilance' operations in respect to National Malaria Eradication Programme ?

- A) Mudaliar Committee B) Mukherji Committee
C) Chaddah Committee D) Shrivastava Committee.

120. All of the following are features of Rural Health Scheme, 1977 *except*

- A) Training of Community Health Workers
B) Involvement of Medical Colleges in the Total Health Care of selected PHCs
C) Converting Multipurpose Workers into Unipurpose Workers
D) Strengthening Rural Health System through Public Private Partnership.

121. The number of Primary Health Centres attached to Medical Colleges under ROME programme is

- A) one B) three
C) five D) none of these.

122. Regional Institute of Ophthalmology, Chennai serves as a

- A) Primordial level of Health care B) Primary level of Health care
C) Secondary level of Health care D) Tertiary level of Health care.

123. All of the following are principles of Primary Health care *except*

- A) Equitable distribution B) Community participation
C) Intersectoral coordination D) Use of sophisticated technology.

124. Which of the following programmes was hailed as a programme "of the people, for the people, by the people" ?
- A) School Health Programme
 - B) Minimum Needs Programme
 - C) Reproductive & Child Health Programme
 - D) Community Development Programme.
125. 'ASHA' in National Rural Health Mission Programme refers to
- A) Ayurvedic, Siddha, Homeopathy Assistants
 - B) Accredited Social Health Activist
 - C) Accredited Self-help Group Activist
 - D) Accredited School Health Activist.
126. The population covered by a subcentre is
- A) 1,000
 - B) 3,000
 - C) 5,000
 - D) 10,000.
127. Tuberculosis Research Centre is located at
- A) Chennai
 - B) Bangalore
 - C) New Delhi
 - D) Ahmadabad.
128. All of the following are functions of a Primary Health Centre *except*
- A) Medical education
 - B) Collection and reporting of vital statistics
 - C) Health education
 - D) Referral services.
129. Leprosy Eradication Programme is best evaluated by
- A) the ratio of disability as compared to new case
 - B) the ratio of multi-bacillary to pauci-bacillary cases
 - C) percentage of lepromin positive in newly detected cases
 - D) detection of new cases.

130. The goals / targets of National Plan of Action for Children, 2005 includes

- A) reduce IMR to 30 / 1000 live births by 2010
- B) reduce child mortality to 40 / 1000 live births by 2010
- C) reduce neonatal mortality to 10 / 1000 live births by 2010
- D) reduce post neonatal mortality to 20 / 1000 live births by 2010.

131. A child with IQ less than is mentally retarded.

- A) 20
- B) 40
- C) 60
- D) 70.

132. Consider the following statements :

Assertion (A) : After 1986 all Children's Acts applicable in different parts of the country have been repealed.

Reason (R) : The Juvenile Justice Act envisages a specialised approach to prevention of juvenile delinquency.

Now select your answer according to the coding scheme given below :

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- C) (A) is true, but (R) is false
- D) Both (A) and (R) are false.

133. Contraceptive efficacy is measured by

- A) Pearl index only
- B) Pearl index & life table analysis
- C) Life table analysis & couple protection rate
- D) Pearl index & couple protection rate.

134. The following fluids are to be avoided in a child with diarrhoea *except*

- A) soft drinks
- B) coffee
- C) tender coconut
- D) very sweet tea.

135. Which of the following is *not* one of the danger signs in a child of 2 months to 5 years ?
- A) Inability to drink B) Vomiting
C) Crying without stopping D) Lethargy.
136. The pre-referral treatment for a child 2 months to 5 years of age with very severe febrile disease in a low malaria risk area includes the following *except*
- A) 1st dose of IM Quinine
B) IV fluids
C) one dose of IV chloramphenicol
D) one dose of paracetamol.
137. A child with no pneumonia cough and cold is *not* given
- A) Paracetamol B) Antibiotics (oral)
C) feeding D) remedies to soothe the throat.
138. In infant less than 2 months of age, which of the following symptoms / signs will help to classify as possible serious bacterial infection ?
- i. Grunting
 - ii. RR > 60 / min
 - iii. Axillary temperature < 35.5° C
 - iv. < 10 skin pustules
 - v. Pus discharge from ear
- Of these :*
- A) all are correct B) (i), (ii) & (iii) are correct
C) (i), (iii) & (v) are correct D) (i), (ii), (iii) & (v) are correct.

139. The following abnormalities found on examination of infant soon after birth need immediate attention
- i. Imperforate anus
 - ii. Breathing difficulty
 - iii. Cyanosis
 - iv. Persistent crying
 - v. Bulging anterior fontanelle
- Of these :*
- A) all are correct B) (i), (ii) & (iii) are correct
C) (i), (ii), (iii) & (v) are correct D) (ii), (iii), (iv) & (v) are correct.

140. Consider the following statements :

Assertion (A) : The baby must be dried with a clean cloth and wrapped in a dry cloth immediately after birth.

Reason (R) : The baby can be given to the mother for breast feeding only after cleaning.

Now select your answer according to the coding scheme given below :

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- C) (A) is true, but (R) is false
- D) Both (A) and (R) are false.

141. Septic abortion, PID, ectopic pregnancy and infertility can be caused by

- A) OCD
- B) condom
- C) IUCD
- D) sterilization.

142. Consider the following statements :

Assertion (A) : Mass screening of new-borns for phenylketonurea using Guthrie test is an essential component of early neonatal care.

Reason (R) : Phenylketonurea is a major cause of mental retardation.

Now select your answer according to the coding scheme given below :

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- C) (A) is true, but (R) is false
- D) Both (A) and (R) are false.

143. Which of the following is *not* a criteria for identifying 'at risk' infants ?

- A) Grade II / III malnutrition
- B) Unimmunised infant
- C) Low birth weight
- D) Infant of single parent.

144. True about 'TFR' is
- A) sensitive indicator of family planning achievement
 - B) completed family size
 - C) number of live births per 1000 married women in reproductive age group
 - D) average number of girls born to a woman.
145. Under NPCB, who is supposed to conduct the vision screening of school students ?
- A) School teachers
 - B) Medical officers of health centres
 - C) Ophthalmologists
 - D) Health assistants.
146. The dose of ethinyl estradiol in 'low dose' pills is
- A) 0.1 mg
 - B) 0.05 mg
 - C) 0.03 mg
 - D) 0.02 mg.
147. In defining GFR, the denominator is
- A) population between 15 - 49 yrs of age
 - B) women between 15 - 49 yrs of age
 - C) midyear population
 - D) live births.
148. The wrong statement regarding couple protection rate is
- A) CPR is a dominant factor in reduction of net reproduction rate
 - B) 50% - 60% births per year are by birth/ order 3 or more
 - C) to achieve NPR of 1, CPR should be more than 60%
 - D) CPR of 60% is equivalent to 3 children per couple.
149. Pearl Index indicates the number of accidental pregnancies per
- A) 1000 population
 - B) 100 live births
 - C) 100 women in age group of 15-44 yrs
 - D) 100 women-years of exposure.

150. Consider the following statements :

Assertion (A) : The subsequent fertility after removal of IUCD decreases markedly

Reason (R) : During the period when IUCD was inside the uterus, it got accustomed itself to non-acceptance of fertilized ovaries.

Now select your answer according to the coding scheme given below :

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- C) (A) is true, but (R) is false
- D) Both (A) and (R) are false.

151. Consider the following statements with regard to MTP Act :

- i. MTP can be performed by a doctor who has performed at least 25 MTP under supervision and independently
- ii. Place for MTP must be approved by the Govt.
- iii. Facility for doing emergency laparotomy should be available.

Of these :

- A) (i) & (ii) are correct
- B) (ii) & (iii) are correct
- C) (i) & (iii) are correct
- D) (i), (ii) & (iii) are correct.

152. Primary prevention of handicap in children includes

- i. Genetic counselling
- ii. Immunization
- iii. Proper nutrition of mother
- iv. Avoidance of tobacco chewing
- v. Early marriage.

Of these :

- A) all are correct
- B) (i), (ii) & (iii) are correct
- C) (i), (ii), (iii) & (v) are correct
- D) (iii), (iv) and (v) are correct.

153. A rape victim reported within 48 hrs. Method of choice to avoid pregnancy is

- A) Menstrual regulation B) Combined Pill
C) Dialatation & curettage D) Prostaglandins.

154. All are true of mini-lap operation *except*

- A) suitable for postpartum tubal sterilization
B) local anaesthesia used
C) done in sub-centre
D) low failure rate.

155. Following are 'danger signals' during labour

- i. sluggish pains after rupture of membranes
- ii. excessively fast foetal heart rate
- iii. placenta not separated within 1 hour after delivery
- iv. temperature of 38°C or more
- v. good pains after rupture of membranes for 1 hour but no progress.

Of these :

- A) all are correct B) (i), (ii) & (iii) are correct
C) (i), (ii), (iv) & (v) are correct D) (i), (ii), (iii) & (v) are correct.

156. Of the second generation IUD's the following are the newer devices *except*

- A) variants of the T-device [T Cu 220C, T Cu 380A]
B) Nova-T
C) Multi-load devices [ML - Cu - 250, ML - Cu - 375]
D) Cu-T-200.

157. The enhanced form of verbal autopsy used to evaluate maternal deaths under SRS is called

- A) ROME B) RHIME
C) READ D) RINE.

158. 'Demographic Gap' means

- A) difference between BR and DR
- B) difference between age specific BR and DR
- C) difference in sex ratio
- D) difference in child-women ratio.

159. The country with the lowest Infant Mortality Rate is

- A) USA
- B) UK
- C) New Zealand
- D) Japan.

160. Consider the following statements :

Assertion (A) : Transmission of syphilis from mother to foetus occurs only after the 6th month of pregnancy.

Reason (R) : The treponema increases in maternal blood after this period.

Now select your answer according to the coding scheme given below :

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- C) (A) is true, but (R) is false
- D) Both (A) and (R) are false.

161. Sex ratio is

- A) males per 1000 population
- B) females per 1000 males
- C) males per 1000 males
- D) females per 1000 population.

162. High lactose concentration in human milk is beneficial because it

- A) helps in rapid muscle growth
- B) keeps intestinal content acidic
- C) provides quick calories
- D) helps in absorption of vitamin D.

163. In calculating Dependency ratio, the numerator is expressed as

- A) population under 10 yrs and 60 and above
- B) population under 15 yrs and 60 and above
- C) population under 10 yrs and 65 and above
- D) population under 15 yrs and 65 and above.

164. A stable population is one which has

- A) no growth of population
- B) constant rate of growth of population
- C) fluctuating rate of growth of population
- D) more death rate than birth rate.

165. Of the following statements about RCH programme

- i. RCH programme is based on a differential approach
- ii. Inputs in all the districts have been kept uniform
- iii. The districts are divided into 3 categories based on CBR and female literacy rate
- iv. First referral units are being set up at district level.

Of these :

- A) (i), (ii) & (iii) are correct
- B) (i) & (iii) are correct
- C) (ii) & (iv) are correct
- D) (i), (ii), (iii) & (iv) are correct.

166. KAP studies were first used in India to study

- A) HIV
- B) Malaria
- C) Family planning
- D) CA cervix.

167. National Family Health Survey has successfully completed

- A) 1 round
- B) 2 rounds
- C) 3 rounds
- D) 4 rounds.

168. The following are Child Welfare Agencies in India :

- i. Rajiv Gandhi Trust
- ii. Indian Council for Child Welfare
- iii. Indian Red Cross Society
- iv. Kasturba Gandhi Memorial Trust
- v. Central Social Welfare Board.

Of these :

- A) all are correct
- B) (i), (ii) & (iii) are correct
- C) (ii), (iv) & (v) are correct
- D) (ii), (iii), (iv) & (v) are correct.

169. Consider the following statements :

Assertion (A) : Refugees have difficulty in establishing their identity.

Reason (R) : They suffer from identity crisis.

Now select your answer according to the coding scheme given below :

- A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- C) (A) is true, but (R) is false
- D) Both (A) and (R) are false.

170. More than 35% of under 5 mortality

- A) is due to diarrhoeal diseases
- B) is due to respiratory infections
- C) occur in the neonatal period
- D) can be prevented by immunization.

171. Accredited Social Health Activist cater to a population of

- A) 500
- B) 1000
- C) 5000
- D) 10000.

172. A Community Development Block comprises approximately number of villages.

- A) ten
- B) fifty
- C) hundred
- D) five hundred.

173. Under the MCH care, the Female Multipurpose Health Worker performs the following duties *except*

- A) makes at least 3 antenatal visits
- B) distributes iron & folic acid tablets
- C) do medical termination of pregnancy
- D) identifies the beneficiaries under Janani Suraksha Yojana.

174. Indigenous system of medicine includes all *except*
- | | |
|---------------|-----------------|
| A) Ayurveda | B) Siddha |
| C) Homeopathy | D) Acupuncture. |
175. Which of the following is incorrectly paired ?
- | |
|--|
| A) Hind Kusht Nivaran Sangh — Leprosy control |
| B) Kasturba Memorial Fund — Tuberculosis control |
| C) Bharat Sevak Samaj — Improvement of sanitation in village |
| D) Central Social Welfare Board — Maternity aid for women. |
176. The age and sex structure of a population may be described by
- | | |
|-----------------------|----------------------------|
| A) life table | B) correlation coefficient |
| C) population pyramid | D) bar chart. |
177. The headquarters of 'WHO' South-East Asia region is
- | | |
|--------------|-------------|
| A) New Delhi | B) Colombo |
| C) Jakarta | D) Bangkok. |
178. In statistics, power of the study is indicated by
- | | |
|-----------------|------------------|
| A) $1 - \alpha$ | B) $1 - \beta$ |
| C) $5 - \alpha$ | D) $5 - \beta$. |
179. Which among the following is a wrong statement regarding PQLI ?
- | |
|---|
| A) Per capita GNP is included |
| B) Measures the impact of political policies |
| C) Many countries with high per capita income have low PQLI |
| D) Measures the impact of economic policies. |
180. Which of the following is a wrong statement about health economics ?
- | |
|--|
| A) Measured by qualitative techniques |
| B) Measured by quantitative techniques |
| C) QALY is used in cost-utility analysis |
| D) Outcomes measured in terms of money in cost benefit analysis. |

181. Which among the following is not an objective of health education ?
- A) Equitable distribution B) Informing people
C) Motivating people D) Guiding into action.
182. The following are true about NIDDM *except*
- A) not HLA associated
B) Glucose tolerance not impaired
C) Central obesity is an important determinant
D) Sedentary life-style is an important risk factor.
183. Most common cause of blindness in India is
- A) Refractive error B) Glaucoma
C) Cataract D) Corneal opacity.
184. Which of the following is not a common cause of blindness in children in India ?
- A) Malnutrition B) Corneal ulcer
C) Trachoma D) Dacrocystitis.
185. The following are some of the risk factors for CHD *except*
- A) type A personality B) physical activity
C) oral contraceptives D) diabetes.
186. The chronic infections that are associated with cancer are the following *except*
- A) Hepatitis B virus B) *Helicobacter pylori*
C) Human papilloma virus D) *Mycobacterium leprae*.
187. Social mobility is
- A) closed class system
B) industrialisation
C) interaction between cultures
D) movement in socio-economic states.

188. Speedy redressal of grievances against medical services is by
- A) Consumer Protection Act B) Medical Ethics Act
C) National Health Policy D) Public Health Act.
189. The science of health of travellers is
- A) Empodiatics B) Emptology
C) Aerotourism D) Emporiatics.
190. "International Travel and Health, Vaccination Requirement and Health Advice" is a booklet published by WHO every
- A) week B) month
C) year D) decade.
191. Drugs of choice for chemoprophylaxis of malaria in Asia are all *except*
- A) Chloroquine B) Mafloquine
C) Doxycycline D) Malarone.
192. As an effort to control international spread of yellow fever, aedes index to be maintained at airports is
- A) > 1 B) < 1
C) > 10 D) < 10 .
193. Adaption of vasectomy practice is an example for model of health education.
- A) medical B) motivation
C) social intervention D) propaganda.
194. Nutrition education includes all *except*
- A) guide people to choose balanced diet
B) to remove prejudices about food
C) promote good dietary habits
D) to teach biochemistry of nutrients.

195. Which among the following offers a package of both personal & impersonal methods of communication ?

- A) Health Exhibition
- B) Television
- C) Role play
- D) Dialogue.

196. Vision 2020 'The right to sight' includes all *except*

- A) Glaucoma
- B) Epidemic Conjunctivitis
- C) Cataract
- D) Diabetic retinopathy.

197. The following are milk borne diseases *except*

- A) Foot & mouth disease
- B) Tick typhus
- C) Q fever
- D) Leptospirosis.

198. Iodine requirement / day is micrograms/day.

- A) 50
- B) 100
- C) 150
- D) 200.

199. Which one of the following Health Committees recommended development of 'Referral Services Complex' ?

- A) Shrivastava Committee
- B) Kartar Singh Committee
- C) Bhore Committee
- D) Jinalwalla Committee.

200. Which of the following committees recommended Comprehensive Health Care ?

- A) Bhore Committee
- B) Srivastava Committee
- C) Chaddah Committee
- D) Kartar Singh Committee.