

Sl. No. : 10000344

H015

Register
Number

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2015

SOCIAL AND PREVENTIVE MEDICINE

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. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series without any omission and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes.
3. Answer all questions. All questions carry equal marks.
4. 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.
5. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers.
6. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. 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, action will be taken as per commission's notification.
7. 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.
8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle 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)
9. 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.
10. The sheet before the last page of the Question Booklet can be used for Rough Work.
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.



[Turn over

SPACE FOR ROUGH WORK

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1. Alcohol is associated with all of the following cancers except :
(A) Pharynx (B) Larynx
(C) Esophagus (D) Urinary Bladder

2. Factories Act 1976 defines factory as an establishment employing
(A) 10 or more workers where power is used
(B) 30 or more workers where power is not used
(C) 20 or more workers where power is used
(D) Only skilled workers

3. ESI corporation works under
(A) Ministry of Labour (B) Ministry of health
(C) As autonomous body (D) State government

4. The employee contribution under ESI act is
(A) 0.75% (B) 1.75%
(C) 3.75% (D) 4.75%

5. The time limit for registration of death under Birth and Death Registration Act
(A) 7 (B) 14
(C) 21 (D) 28

6. Mrs. Kumari, who delivered a female baby five months ago, forget to register the birth of the child. How she can register the birth of her child now?
(A) She can register the birth free of cost
(B) She can register the birth on payment of prescribed fee
(C) An affidavit is required from a Notary Public to register birth
(D) An order from class one magistrate is necessary to register the birth



7. In census literacy rate is assessed by
- (A) Ability to read and write
 - (B) Ability to write signatures
 - (C) Ability to read alone
 - (D) Attended literacy classes for one year
8. Management technique for participatory management is
- (A) Systems analysis
 - (B) Model
 - (C) Management by objectives
 - (D) Work sampling
9. All are measures of central tendency except
- (A) Mean
 - (B) Mode
 - (C) Median
 - (D) Range
10. The most sensitive indicator of environmental iodine deficiency is
- (A) Prevalence of goitre
 - (B) Prevalence of cretinism
 - (C) Prevalence of neonatal hypothyroidism
 - (D) Urinary iodine excretion
11. Endemic Ascitis is due to the toxic substance
- (A) BOAA
 - (B) Sanguinarine
 - (C) Pyrrolizidine
 - (D) Aflatoxin
12. All the statement regarding Mid-day meal programme are true except
- (A) the meal should be a supplement
 - (B) the meal should supply atleast one half of total energy requirement and one third of total protein requirement
 - (C) complicated cooking process should be avoided
 - (D) cost of the meal should be low



13. In India, the integrated disease surveillance project was launched in
(A) 2004 (B) 2006
(C) 2008 (D) 2010
14. Case Study is the method in sociology
(A) to elicit an individual's symptoms and signs
(B) to explore and analyze the life of a social unit
(C) to decipher an individual's mental status assessment
(D) to implement a social worker's assignment
15. After the appearance of rash in a child with measles, isolation is recommended for a period of
(A) 10 – 14 days (B) 7 – 10 days
(C) 5 – 7 days (D) 1 – 3 days
16. The Intelligence Quotient expressed in % is obtained by
(A) The chronological age divided by weight of the child
(B) The chronological age divided by the mental age
(C) The mental age divided by chronological age
(D) The mental and attitudinal score divided by chronological age
17. Basic unit of society is
(A) an individual (B) a group
(C) a family (D) a village
18. The transmission of the following infection is controlled by Sanitation Barrier
(A) Hepatitis A (B) Hepatitis B
(C) Hepatitis C (D) Hepatitis D

19. In the "Ice Berg of Disease", the waterline represents the demarcation between
- (A) Apparent - Inapparent disease
 - (B) Treated - Died due to a disease
 - (C) Not treated - Died due to a disease
 - (D) Late treatment - Death due to disease
20. Age and sex composition of population can be demonstrated by
- (A) Bar chart
 - (B) Age - Pyramid
 - (C) Pictogram
 - (D) Histogram
21. Which of the following is the modal ministry for ICDS programme centre
- (A) Ministry of social welfare development
 - (B) Ministry for rural development
 - (C) Ministry for health and family welfare
 - (D) Social Justice
22. The Juvenile Justice Act 1960 defines juvenile
- (A) a child who has committed an offence
 - (B) boy less than 16 yrs of age and girl less than 18 yrs of age
 - (C) boy/girl less than 18 yrs of age
 - (D) boy/girl less than 16 yrs of age
23. Under AFP surveillance, follow up examination is done after
- (A) 15 days of onset of paralysis
 - (B) 33 days of onset of paralysis
 - (C) 60 days of after onset of paralysis
 - (D) 93 days of after onset of paralysis

24. Which is true about live vaccine?
- (A) An adjuvant is needed
 - (B) Electricity optional for storage
 - (C) Duration of immunity is shorter
 - (D) Effectiveness of the protection is greater
25. All of the following are components of PQLI EXCEPT
- (A) Infant mortality
 - (B) Literacy
 - (C) Life expectancy at age one
 - (D) Life expectancy at birth
26. All of the following are components of HDI EXCEPT
- (A) Knowledge
 - (B) Housing
 - (C) Longevity
 - (D) Income
27. The adverse events following immunization that occurs within 24 hours include all EXCEPT
- (A) Persistent inconsolable screaming
 - (B) Anaphylaxis
 - (C) Toxic shock syndrome
 - (D) Suppurative lymphadenitis
28. Regarding inactivated vaccines the following are true EXCEPT
- (A) Effectiveness of protection is lower than live vaccine
 - (B) They need booster doses
 - (C) The duration of immunity is longer
 - (D) Stability is better than live vaccine

29. Planning – Programming – Budgeting System – PPBS, mainly focuses on
- (A) Resource allocation
 - (B) Time frame
 - (C) Human resources
 - (D) Monitoring and evaluation
30. X-Ray units for T.B. control programme are provided through :
- (A) SIDA
 - (B) DANIDA
 - (C) DAMIEN
 - (D) Ford foundation
31. In evaluation of health services a measure of output per unit input is :
- (A) Evaluation of progress
 - (B) Evaluation of efficiency
 - (C) Evaluation of impact
 - (D) Evaluation of effect
32. Dietary fibres have the following beneficial effects except
- (A) Soften stools
 - (B) Reduce flatulence
 - (C) Increase transit time of food
 - (D) Inhibit faecal mutagen synthesis
33. Match the following
- | | | |
|--|----|-------------------------------|
| (a) > 2 ppm flouring in drinking water | 1. | intra uterine death of foetus |
| (b) Iodine deficiency | 2. | atrophy of thymus |
| (c) Zinc deficiency | 3. | stiffness of joints and spine |
| (d) Iron deficiency | 4. | low mean corpuscular volume |
- | | | | | |
|-----|-----|-----|-----|-----|
| | (a) | (b) | (c) | (d) |
| (A) | 3 | 1 | 2 | 4 |
| (B) | 3 | 1 | 4 | 2 |
| (C) | 2 | 3 | 1 | 4 |
| (D) | 2 | 1 | 3 | 4 |



34. Arrange the following programmes according to their year of implementation, from earliest to latest

1. Reproductive and Child Health programme
2. National Rural Health Mission
3. National AIDS Control Programme
4. Universal Immunisation Programme

(A) 2, 1, 4, 3 (B) 4, 3, 1, 2 (C) 3, 4, 1, 2 (D) 1, 4, 3, 2

35. Match List I and List II correctly and select the correct choice.

- | List I | | List II | |
|----------------|--|---|--|
| (a) Objectives | | 1. Guiding principles stated as expectation not as a commandment | |
| (b) Policies | | 2. Sequence of activities designed to implement policies and accompanish objectives | |
| (c) Programmes | | 3. Time sequence for the work to be done | |
| (d) Schedule | | 4. Planned end point of all activities | |

- | | (a) | (b) | (c) | (d) |
|-----|-----|-----|-----|-----|
| (A) | 4 | 3 | 1 | 2 |
| (B) | 3 | 1 | 4 | 2 |
| (C) | 2 | 4 | 1 | 3 |
| (D) | 4 | 1 | 2 | 3 |

36. As per National Health Policy 2002, the health spending by the state sector, by the year 2010 should be increased to

(A) 5.5% (B) 6% (C) 7.5% (D) 8%

37. The Revised National Tuberculosis control programme in India is assisted by the following agencies EXCEPT

- (A) World Bank
- (B) Department for International Development (DFID)
- (C) UNESCO
- (D) DANIDA

38. Medical termination of pregnancy Act 1971, allows termination of pregnancy only upto
- (A) 6 weeks of gestation
 - (B) 12 weeks of gestation
 - (C) 20 weeks of gestation
 - (D) 24 weeks of gestation
39. The MTP act defines the following except
- (A) Who should perform the termination
 - (B) Where it should be done
 - (C) When it should be done
 - (D) How it should be done
40. Under which benefit, the ESI beneficiary gets the O.P.D. care
- (A) Medical benefit
 - (B) Sickness benefit
 - (C) Dependent's benefit
 - (D) All of the above
41. Restricted medical care in ESI means
- (A) Only O.P.D. services
 - (B) O.P.D. services as well as hospitalization
 - (C) Only laboratory facilities are not provided
 - (D) O.P.D. hospitalization and laboratory services
42. Maternity benefit under ESI act for delivery (confinement) is
- (A) 8 weeks
 - (B) 10 weeks
 - (C) 12 weeks
 - (D) 14 weeks

43. All the following are defence mechanism employed by an individual when he faced with problems except
- (A) Projection
 - (B) Rationalization
 - (C) Conflict
 - (D) Regression
44. The Panchayati Raj at the village level consists of all except
- (A) the gram sabha
 - (B) the panchayat samiti
 - (C) the gram panchayat
 - (D) the Nyaya panchayat
45. All are management techniques based on quantitative methods except
- (A) Information systems
 - (B) Input-output analysis
 - (C) System analysis
 - (D) Cost-accounting
46. All are organo phosphorus insecticides except
- (A) Dieldrin
 - (B) Abate
 - (C) Trichlorfon
 - (D) Diazinon
47. All are organo chlorine insecticides except
- (A) Kepone
 - (B) Aldrin
 - (C) Lindane
 - (D) Dichlorros
48. The insecticide which is a stomach poison is
- (A) Sodium fluoride
 - (B) Mineral oils
 - (C) Sulphur dioxide
 - (D) Rotenone

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49. In Hepatitis B infection, which statement is false?
- (A) HBsAg is the first evidence of infection
 - (B) HBcAg appears in the serum after HBsAg
 - (C) Anti HBc appearance indicates active Hepatitis B
 - (D) Anti HBs appearance indicates recovery
50. The following statements are true about Eltor Vibrios except
- (A) They are epidemic strains
 - (B) They are resistant to classical phage IV
 - (C) They are resistant to polymyxin B – 50 unit disc
 - (D) They do not agglutinate chick and sheep erythrocytes
51. Which of the following is incorrectly paired in cardiovascular deaths % in different epidemiological transition?
- (A) Age of pestilence and famine – 5 – 10%
 - (B) Age of delayed degenerative diseases – <50%
 - (C) Age of receding pandemics – 65%
 - (D) Age of degenerative and man-made diseases – 35 – 55%
52. The risk of myocardial infarction is increased in those women who
- (A) are on Intrauterine Device
 - (B) are on oral contraceptives
 - (C) are having regular menstruation
 - (D) consume saturated fat <10% of total energy
53. Cerebro vascular diseases include the following except
- (A) Subarachnoid haemorrhage
 - (B) Neuro cysticercosis
 - (C) Cerebral thrombosis
 - (D) Transient cerebral ischaemia



54. Match List I with List II and select the correct answer using the codes given below the list.

List I		List II	
(a)	Oral contraceptives	1.	Ectopic pregnancy
(b)	IUCD, CU-T	2.	Failures high due to incorrect use
(c)	Condom	3.	Amenorhea is common
(d)	Depot provera	4.	To be avoided in lactating mother till 6 months

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

55. Prophylactic IFA is given to a child

- (A) along with DPT vaccine doses
- (B) for 100 days in a year
- (C) when the child has an acute illness
- (D) from birth

56. Consider the following statements :

Assertion A : A woman need not be given Tetanus Toxoid during third pregnancy if she has received T.T. - 2 doses during 1st pregnancy and booster during 2nd pregnancy and it is within 5 yrs of 2nd pregnancy

Reason B : Risk of hyper immunization can be avoided.

- (A) Both A and B are true and B is reason for A
- (B) Both A and B are true but B is not correct reason for A
- (C) A is true, B is false
- (D) Both A and B are false

57. Consider the following statements :

Assertion A : Combined oral pills should be avoided during lactation.

Reason B : Withdrawal of the pills causes "Withdrawal bleeding".

- (A) Both A and B are correct and B is reason for A
- (B) Both A and B are correct but B is not reason for A
- (C) A is true but B is false
- (D) Both A and B are false



58. All of the following are morbidity indicators EXCEPT
- (A) Incidence rate
 - (B) Prevalence rate
 - (C) Disability rate
 - (D) Notification rate
59. Promoting healthy lifestyle in children is
- (A) Primary prevention
 - (B) Primordial prevention
 - (C) Secondary prevention
 - (D) Tertiary prevention
60. Vaccines can be stored at Walk In Cold rooms (WIC) up to
- (A) One year
 - (B) 6 months
 - (C) 3 months
 - (D) 1 month
61. Which of the following indicates severity of an acute illness?
- (A) Incidence rate
 - (B) Prevalence rate
 - (C) Case fatality rate
 - (D) Proportional mortality rate
62. State of social dysfunction is known as
- (A) Disease
 - (B) Illness
 - (C) Sickness
 - (D) Infection



63. The following is a mono unsaturated fatty acid
- (A) Linolenic acid (B) Linoleic acid
(C) Glycerol (D) Oleic acid
64. Extra Vit C is required in the following except
- (A) Smokers
(B) Alcoholics
(C) Women an oral contraceptives
(D) Regular aspirin users
65. The following vitamins are antioxidants except
- (A) Vit A (B) Vit B₁
(C) Vit C (D) Vit E
66. The purpose of health planning is to
- (A) Keeping people's health in peoples hand
(B) Use limited resources in tackling minimal problems
(C) Use limited resources to tackle many problems
(D) To meet the needs and demands of a organization
67. A primary health centre caters to a population of
- (A) 10,000 (B) 20,000
(C) 30,000 (D) 40,000
68. The concept of new primary Healthcare came into existence following an International conference in 1978, held at
- (A) Moscow (B) Alma - Atta
(C) Geneva (D) New Delhi

69. Which of the following is incorrectly paired?
- (A) National Tuberculosis Institute - Bangalore
 - (B) National Institute of Health and Family welfare - New Delhi
 - (C) National Institute of Communicable Diseases - Pune
 - (D) National Institute of Nutrition - Hyderabad
70. Activities of TB association of India includes all EXCEPT
- (A) Organising a TB seal campaign every year to raise funds
 - (B) Training of Doctors, health visitors and social workers
 - (C) Promotion of Health Education
 - (D) Active screening of all with cough for more than 2 wks
71. Which of the following is incorrectly paired?
- (A) Basic health service provided at Block level - Mukerji Committee
 - (B) Integration of preventive and curative services at all administrative level - Jungal Walla Committee
 - (C) Constitution of an All India Health Service on the pattern of Indian administrative service - Mudaliar Committee
 - (D) Lady Health visitors to be designated as Female Health Supervisor - Kartar Singh Committee
72. "UJJAWALA" means a comprehensive scheme 'to combat'
- (A) A scheme to combat child abuse
 - (B) A scheme to combat child labour
 - (C) A scheme to combat child marriage
 - (D) A scheme to combat child trafficking
73. The degree of freedom in a table with 4 rows and 4 columns is in Chi-square test is
- (A) 16
 - (B) 9
 - (C) 8
 - (D) 1



74. The basic measure of child survival is
- (A) MMR
 - (B) IMR
 - (C) Mortality between 1 to 4 years of age
 - (D) Under 5 Mortality
75. Components of Health Information system includes all except
- (A) Financial statistics
 - (B) Health status indicators
 - (C) Health resources
 - (D) Health promotion
76. Occupational hazard related to cold are all except
- (A) Chilblains
 - (B) Erythrocyanosis
 - (C) Frost bite
 - (D) Caisson's disease
77. Pneumoconiosis is caused by all except one of the following type of dust
- (A) Inorganic dust
 - (B) Organic dust
 - (C) Soluble dust
 - (D) Insoluble dust
78. Size of respirable dust is below
- (A) 0.1 micron
 - (B) 1 micron
 - (C) 5 microns
 - (D) 10 microns
79. The substances associated with lung cancer include all except
- (A) Asbestos
 - (B) Nickel
 - (C) Coal tar
 - (D) Silica
80. X-ray chest shows "ground glass appearance" in lower 2/3rd of lung in
- (A) Anthracosis
 - (B) Silicosis
 - (C) Asbestosis
 - (D) Farmer's lung

81. The following are health promotional measures except
(A) Environmental sanitation
(B) Nutritional programmes
(C) Iodisation of salt
(D) Vaccination
82. Chemotherapy for uncomplicated tuberculosis is a
(A) Primordial prevention (B) Specific protection
(C) Secondary prevention (D) Tertiary prevention
83. The following are the causes of Acute flaccid paralysis except
(A) Guillaine-barre syndrome (B) Poliomyelitis
(C) Tuberculosis (D) Acute transverse myelitis
84. The serotype of polio virus which is highly antigenic is
(A) Serotype 1 (B) Serotype 1 and 3
(C) Serotype 2 (D) Serotype 3
85. The anti tuberculosis drug which is contraindicated in HIV patients is
(A) Streptomycin (B) Pyrazinamide
(C) Isoniazid (D) Thioacetazone
86. The following are the diseases which are amneable for eradication except
(A) Measles (B) Leprosy
(C) Poliomyelitis (D) Diphtheria
87. Following one of the disease does not has proven carrier state
(A) Diphtheria (B) Typhoid
(C) Cholera (D) Measles

88. Treatment of sore throat infection by single dose of benzathine benzyl penicillin is _____ level of prevention of RHD.
- (A) Primary (B) Secondary
(C) Tertiary (D) Primordial
89. The genetic markers associated with IDDM are the following except
- (A) HLA B8 (B) HLA B15
(C) HLA B24 (D) HLA DR3
90. Scrub typhus is transmitted by
- (A) Reduvid bug (B) Trombiculid mite
(C) Cyclops (D) Ixodes tick
91. Case finding in RNTCP is based on
- (A) Mantoux test (B) Sputum culture
(C) Sputum microscopy (D) Chest X ray
92. All are true in SAFE strategy for Trachoma except
- (A) Screening
(B) Antibiotics
(C) Facial hygiene
(D) Environmental cleanliness
93. Which of the incubation period is incorrectly paired?
- (A) Diphtheria - 2 - 6 wks
(B) Meningococcal meningitis - 2 - 10 days
(C) Mumps - 2 - 3 wks
(D) Hepatitis B - 2 - 3 months

94. State with lowest IMR
- (A) Kerala (B) Tamil Nadu
(C) Uttar Pradesh (D) West Bengal
95. Causes of still births which may be eliminated by early detection and treatment are
1. Rh incompatibility
 2. Diabetes in mother
 3. Infections
 4. High blood pressure in mother
 5. Premature rupture of membranes
- (A) All are correct (B) 1, 2, 3 are correct
(C) 1, 3, 4 are correct (D) 2, 4, 5 are correct
96. The babies to be included in perinatal statistics include the following except
- (A) Body length more than 35 cm
(B) Weight more than 1000 gms
(C) Gestational age more than 28 wks
(D) Head circumference more than 25 cms
97. The leading causes of child death in developed countries are
1. Accidents
 2. Congenital anomalies
 3. Malignant neoplasms
 4. Malnutrition
 5. Influenza
- (A) All are correct (B) 1, 2, 3 are correct
(C) 1, 3, 4 and 5 are correct (D) 1, 2, 3 and 5 are correct
98. Which is not true about DPT vaccine?
- (A) It should be stored in deep freezer
(B) Exposure to direct sunlight when in use should be avoided
(C) Store stocks are needed for 3 months at PHC level
(D) Half used vials should not be put back into the cold chain after the session



99. Which of the disease has the greatest chance of global eradication in foreseeable future?
- (A) Poliomyelitis (B) Kala-azar
(C) Yellow fever (D) Malaria
100. Bhopal gas tragedy is an example of
- (A) Point source epidemic
(B) Propagated epidemic
(C) Continuous epidemic
(D) Modern epidemic
101. Confounding bias in a case control study can be eliminated by
- (A) Following strict inclusion criteria
(B) Randomization
(C) Blinding
(D) Matching
102. Which is the subjective component of wellbeing?
- (A) Standard of living
(B) Education
(C) Quality of life
(D) Housing
103. In Greek mythology the serpent testifies the
- (A) Art of healing
(B) Art of treatment
(C) Art of prevention
(D) Art of care



104. Village Health Guides and Trained dais in primary Healthcare is an example of
 (A) Equitable Distribution (B) Community participation
 (C) Intersectoral coordination (D) Appropriate Technology
105. Self-Help groups formation began under, one of the following programmes
 (A) Integrated Rural Development programme
 (B) 20-point programme
 (C) Minimum needs programme
 (D) Community Development programme
106. The following are the three principle organs of WHO except
 (A) The World Health Assembly (B) Advisory Committee
 (C) Executive Board (D) The Secretariat
107. The Research Project aimed at designing and construction of Hand-flushed acceptable sanitary latrines was assisted by
 (A) USAID (B) Rock feller foundation
 (C) Ford foundation (D) CARE

108. Match List I and List II and choose your answers using the code below

List I			List II
(a)	SIDA		1. All India Institute of Hygiene and public health, Kolkatta
(b)	DANIDA		2. X-Ray units and microscopes for RNTCP
(c)	Rock feller foundation		3. Calcutta water supply and drainage scheme
(d)	Ford foundation		4. Blindness control programme
(a)	(b)	(c)	(d)
(A)	1	3	4
(B)	3	2	1
(C)	2	4	1
(D)	1	2	3



109. The cut off set for poverty line in rural areas is expenditure required for a daily calorie intake of _____ per person.
- (A) 3400 (B) 3800
(C) 2400 (D) 2100
110. The orientation training centres at Singur and Poonamalle were setup with the help from _____ foundation.
- (A) FORD (B) CARE
(C) DANIDA (D) UNICEF
111. Abilities of the child is assessed by the following EXCEPT
- (A) Behaviour (B) Skills
(C) Handicaps (D) Education
112. Integrated counselling and testing centres have been established at the following places EXCEPT
- (A) 24 hours Primary Health centres
(B) Sub-district level Hospitals
(C) Medical College Hospitals
(D) Subcentres
113. Under the Factories Act – 1948, the minimum prescribed space for each worker is
- (A) 100 Cu. feet (B) 200 Cu. feet
(C) 500 Cu. feet (D) 1000 Cu. feet
114. The standard normal curve has
- (A) Mean of 0 and standard deviation of 1
(B) Mean of 1 and standard deviation of 0
(C) Mean of 0 and standard deviation of 2.75
(D) Mean of 1 and standard deviation of 2.75

115. All of the following are bladder carcinogens except
- (A) β naphthylamine (B) Benzidine
(C) Auramine (D) Benzol
116. Minimum area in cubic feet recommended for a worker is
- (A) 100 (B) 250
(C) 500 (D) 600
117. Deaths and birth rates are registered and survey done every 6 months is
- (A) Demographic survey (B) Epidemiological Surveillance
(C) Sample Registration system (D) Record Linkage
118. The management technique which involves training and motivation, division of responsibility and opportunity for promotion is
- (A) Organisational design (B) System analysis
(C) Organisational system (D) Personnel management
119. Which of the following is not a continuous date measurement?
- (A) Height (B) Weight
(C) Gender (D) Chest circumference
120. The record showing cause of mortality in a population is
- (A) Life table
(B) Record linkage
(C) Life expectancy
(D) Comparative mortality index



121. The following are pandemic diseases/conditions except
- (A) Influenza
 - (B) Acute Haemorrhagic conjunctivitis
 - (C) Smoking
 - (D) Leprosy
122. The type of biological transmission in rat flea in plague is
- (A) Propagative
 - (B) Cyclo propagative
 - (C) Developmental
 - (D) Cyclo developmental
123. The following epidemiological study design gives weak association between the risk factor and the outcome
- (A) Case control study
 - (B) Cohort study
 - (C) Descriptive study
 - (D) Controlled trials
124. Disinfection of air is by all the following except
- (A) Mechanical ventilation
 - (B) Application of oil to floors
 - (C) Replacement by use of coal
 - (D) Triethylene glucol vapours
125. Under ESI Act, an employee is exempted from payment of contribution if his daily wages is below Rs.
- (A) 50
 - (B) 70
 - (C) 100
 - (D) 250
126. The leader of the health team is
- (A) Physician
 - (B) Community nurse
 - (C) Community leader
 - (D) Teachers
127. All of the following are immutable risk factors of coronary heart diseases EXCEPT
- (A) Age
 - (B) Genetic factors
 - (C) High blood pressure
 - (D) Sex

128. Arrange the stage of Lymphatic filariasis in the order of occurrence :
- I Stage of chronic obstructive lesions
 - II State of acute manifestation
 - III Asymptomatic Amicrofilaraemia
 - IV Asymptomatic Microfilaraemia
- (A) II, III, IV, I (B) II, IV, III, I
(C) III, IV, II, I (D) III, II, IV, I
129. Arrange in order the role of Reproduction health in poverty reduction strategy
- I Lower population growth
 - II Poverty reduction
 - III Reduced fertility
 - IV Lower young dependency ratio
 - V Faster economic growth
- (A) V, III, IV, I, II (B) II, V, III, I, IV
(C) V, II, III, IV, I (D) III, I, IV, V, II
130. "Poverty line" is defined as expenditure required for daily per capita calorie intake of _____ K calories.
- (A) 2400 in rural areas (B) 2400 in urban areas
(C) 2400 for women (D) 2400 for men
131. The curve of learning reaches its peak between
- (A) 3 – 7 years (B) 9 – 13 years
(C) 16 – 19 years (D) 22 – 25 years
132. The mob is
- (A) a temporary social group with no leader
 - (B) orderly with internal organization
 - (C) same as band
 - (D) unstable and emotional

133. Zero dose of polio vaccine is one which is given
- (A) Before giving DPT
 - (B) When child is having diarrhoea
 - (C) At birth
 - (D) When child is having polio
134. Under normal circumstances, an IUCD should be replaced after every
- (A) 1 year
 - (B) 3 years
 - (C) 5 years
 - (D) 7 years
135. The technique used for microscopy in RNTCP
- (A) Gram stain
 - (B) Dark illumination
 - (C) Ziehl Neelson technique
 - (D) Fontanas stain
136. 'Professional Misconduct' specified under MCI act include all except
- (A) Alcoholism
 - (B) Smoking
 - (C) Adultery
 - (D) Human rights violation
137. The vaccine contraindicated in pregnancy
- (A) Rubella
 - (B) BCG
 - (C) DPT
 - (D) TT
138. The amount of IV fluids to be given to a severely dehydrated infant in the 1st 1 hour is
- (A) 20 ml/kg
 - (B) 30 ml/kg
 - (C) 40 ml/kg
 - (D) 70 ml/kg

139. The changes in the occurrence of disease over a long period of time, generally several years is known as
- (A) Seasonal trend
 - (B) Cyclic trend
 - (C) Secular trend
 - (D) Propagated epidemic
140. Heart of controlled trial is
- (A) Selection of reference population
 - (B) Selection of study population
 - (C) Randomization
 - (D) Manipulation and follow up
141. When more than one test is used to screen for a given disease, simultaneously, it
- (A) increases sensitivity
 - (B) decreases sensitivity
 - (C) increases specificity
 - (D) decreases specificity
142. When false positive results can lead to dangerous consequences, it is good to choose a test with
- (A) high sensitivity
 - (B) high specificity
 - (C) low sensitivity
 - (D) low specificity
143. In testing for HIV, in voluntary testing centres, to avoid false positives, the test should have
- (A) high sensitivity
 - (B) high specificity
 - (C) low sensitivity
 - (D) low specificity

144. The world's largest private voluntary organization for supporting family planning services in developing countries is
- (A) UNFPA
 - (B) UNICEF
 - (C) USAID
 - (D) International Planned Parenthood Federation
145. General literacy rate in India as per census 2011
- (A) 74.04%
 - (B) 84.7%
 - (C) 44.9%
 - (D) 64.6%
146. Target couple includes all except
- (A) Those having 2-3 children
 - (B) Those with one child
 - (C) Newly married
 - (D) Couple with no child after 2 years of marriage
147. Pulse Polio Immunization is administration of OPV to
- (A) All children between 0-5 yrs of age on a single day, Irrespective of their previous immunization states
 - (B) Children in the age group of 0-1 year only who have not been immunized earlier
 - (C) Children in age group 12-24 months only as the booster dose
 - (D) All children between 0-5 yrs of age, whenever there is an outbreak of poliomyelitis
148. ICDS includes all except
- (A) Supplementary nutrition
 - (B) Family planning
 - (C) Health education
 - (D) Immunization
149. Least commonly used family planning method in India
- (A) Tubectomy
 - (B) Vasectomy
 - (C) IUCD
 - (D) Oral pills

150. In Chi-square test, the test statistic is calculated using formula

(A) $\sum \frac{(O - E)^2}{E}$

(B) $\sum \frac{(O + E)^2}{E}$

(C) $\sum \frac{(O - E)^2}{O}$

(D) $\sum \frac{(O + E)^2}{O}$

151. Standard error of sample proportion is calculated by the formulae

(A) $\sqrt{\frac{pq}{n}}$

(B) $\frac{s}{\sqrt{n}}$

(C) $\sqrt{\frac{p_1q_1}{n_1} + \frac{p_2q_2}{n_2}}$

(D) $\frac{n}{\sqrt{s}}$

152. In an area, the number of live births for the year 2005 was 2100. The number of still births (720 weeks) was 60. The number of deaths in Neonates was 10 and number of deaths from 28 days to 1 year was 5. Calculate the IMR

(A) $5/2100 \times 1000$

(B) $15/2100 \times 1000$

(C) $65/2100 \times 1000$

(D) $75/2100 \times 1000$

153. For calculating median value, the data should be subjected to

(A) Summation

(B) Arrangement by magnitude

(C) Condensation

(D) Moderation

154. The following are true about measles vaccine EXCEPT

(A) It is a live attenuated vaccine

(B) The dose is 0.5 ml

(C) Indicated in Immuno deficiency states

(D) Infants vaccinated at the age of 9 months show Sero conversion of about 90%

155. For a doctor working in a primary health centre, management skills are essential for fulfilling following functions except

- (A) Efficient use of resources
- (B) Capacity for leadership
- (C) Training and supervision of health workers
- (D) Handling displeased, complaining patients

156. Work sampling is a management technique that permits

- (A) Adequate supervision
- (B) Judge appropriateness of staff/ job description
- (C) Assessing work
- (D) Making representative sampling

157. Consider the following statement

Assertion (A) : There is increase in the network of MTP centers and service providers.

Reason (R) : Amendment to the MTP Act 2003.

Select your answer according to the coding scheme given below

- (A) (A) is true but (R) does not explain (A)
- (B) Both (A) and (R) are true, (R) explains (A)
- (C) Both (A) and (R) are false
- (D) (A) is true (R) is false

158. Which among the following is not covered under IDSP?

- (A) Cholera
- (B) Plague
- (C) Viral hepatitis
- (D) Dengue

159. The statistical inference, α errors indicate

- (A) True Positive
- (B) False Positive
- (C) True Negative
- (D) False Negative

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160. The PERT is
- (A) A graphic plan of social interaction
 - (B) A sociogram of programme
 - (C) A schedule of graphic plan of activities
 - (D) An evaluation of implemented programme
161. All are the characteristics of ideal indicators except
- (A) Sensitive to the changes in situation
 - (B) Specific to reflect change only in the situation concerned
 - (C) Reliable and repeatable
 - (D) Acceptable to the people
162. Behavioural problems are the following except
- (A) Personality disorders
 - (B) Backwardness in studies
 - (C) Thumb sucking
 - (D) Down's syndrome
163. Causes of physical handicap in children may be due to the following except
- (A) Birth defects
 - (B) Infections
 - (C) Accidents
 - (D) Single parent
164. Guidelines for drinking water quality recommended by WHO include the following except
- (A) Turbidity
 - (B) Super chlorination
 - (C) Bacteriological indicators
 - (D) Inorganic constituents
165. Positive Schick's test indicates that the person is
- (A) Immune to diphtheria
 - (B) Hypersensitive to diphtheria
 - (C) Susceptible to diphtheria
 - (D) Both Susceptible and hypersensitive

166. The permanent hardness of water is due to all except
- (A) Magnesium sulphate (B) Magnesium chloride
(C) Magnesium bicarbonate (D) Magnesium nitrate
167. Both temporary and permanent hardness of water can be removed by
- (A) Boiling
(B) Superchlorination
(C) Addition of lime
(D) Addition of sodium bicarbonate
168. "Power" of the lighting source is known as
- (A) Luminous intensity (B) Luminous flux
(C) Illuminance (D) Luminance
169. Which of the following organophosphorous compound can be used in domestic water containers?
- (A) Temephos (B) Diazinone
(C) Propoxur (D) Rotenone
170. The percentage of para isomer in technical DDT is
- (A) 40 - 50 (B) 50 - 60
(C) 60 - 70 (D) 70 - 80
171. The minimum standards for slaughter houses have been suggested under
- (A) ESI - Act -1948
(B) Factories Act -1948
(C) Prevention of Food Adulteration Act -1954
(D) Model Public Health Act - 1955

172. Child guidance clinic was started
- (A) in California
 - (B) to deal with juvenile delinquency
 - (C) for giving carrier guidance
 - (D) by a psychiatrist
173. The Epidemic diseases Act was promulgated in
- (A) 1880
 - (B) 1881
 - (C) 1897
 - (D) 1920
174. Regarding crude birth rate which is true?
- (A) Affected by age distribution
 - (B) Indicator of fertility
 - (C) Include the still births
 - (D) Better measures of fertility than the GFR
175. Consider the following statements :
- Assertion A : The proportion of neonatal deaths due to prematurity and congenital disorders increases as neonatal mortality rate decreases.
- Reason B : Deaths due to prematurity and congenital disorders occur mainly in the 1st week of life
- (A) Both A and B are true and B is the reason for A
 - (B) Both A and B are true but B is not the reason for A
 - (C) A is true, B is false
 - (D) A and B are false
176. Pus/discharge from ear in a child 2 months – 5 years age for more than 14 days is treated with
- (A) Antibiotic ear drops
 - (B) Oral antibiotics
 - (C) Paracetamol only
 - (D) Drying of ear by wicking

177. Advantage of high risk screening over general population screening is
- (A) Sensitivity is increased
 - (B) Specificity is increased
 - (C) Positive predictive value is increased
 - (D) Negative predictive value is increased
178. The following is NOT a criteria for selecting disease for screening
- (A) High prevalence
 - (B) Fatal disease
 - (C) No lead time
 - (D) High lead time
179. Near genius is a person with IQ
- (A) 90 – 109
 - (B) 110 – 119
 - (C) 120 – 139
 - (D) 140 and over
180. Surveillance for malaria under the primary health care system is the job responsibility of
- (A) Health worker (Male)
 - (B) Health worker (Female)
 - (C) Malaria worker
 - (D) Non-medical supervisor
181. Acculturation is
- (A) Study of various cultures
 - (B) Culture contact
 - (C) Study of socio-cultural factors
 - (D) Exchange of ideas
182. Behavioural Surveillance survey was carried out in India in 2001 for the disease
- (A) SARS
 - (B) Alcoholism
 - (C) Schizophrenia
 - (D) HIV

183. SAFE strategy has been developed for the control of
- (A) Onchocerciasis
 - (B) Trachoma
 - (C) Refractive error
 - (D) Ocular trauma
184. The most sensitive index of recent transmission of malaria in a community is
- (A) Spleen rate
 - (B) Infant parasite rate
 - (C) Annual parasite incidence
 - (D) Slide positivity rate
185. Which is not true regarding ASHA?
- (A) They are preferably females
 - (B) There is one ASHA worker per thousand population
 - (C) ASHA is a skilled birth attendant
 - (D) Provides primary medical care for minor ailments
186. TODAY contraceptive contains
- (A) Prostaglandin F₂
 - (B) Nor ethisterone
 - (C) 9 – Nonoxynol
 - (D) Copper Releasing mesh
187. Most common cause of failure of vasectomy
- (A) Spontaneous re-canalization of vas
 - (B) More than 1 vasonone side
 - (C) Mistaken identification of vas
 - (D) None of these
188. In the case of death of mother the safest milk for artificial feeding is
- (A) Undiluted cow's milk with sugar
 - (B) Dried whole milk
 - (C) Breast milk from milk bank
 - (D) Cow's milk diluted with 2 parts of water and sugar added

189. Autoclaving is the most effective method for sterilization of the following EXCEPT
- (A) Linen
 - (B) Dressing
 - (C) Syringes
 - (D) Sharp instruments
190. The United Nations declared Millennium Development Goals in the year
- (A) 1998
 - (B) 1999
 - (C) 2000
 - (D) 2001
191. Which of the following is not the duty of a Trained Birth Attendant?
- (A) Conduct deliveries in village
 - (B) Administer Tetanus Toxoid
 - (C) Propagate small-family norm
 - (D) Identifies antenatal mothers in her area
192. The following is attributed to impaired functioning of the heat regulating mechanism
- (A) Heat cramps
 - (B) Heat exhaustion
 - (C) Heat hyperpyrexia
 - (D) Heat syncope
193. Silent epidemic of the century is
- (A) Alzheimer's disease
 - (B) Turners syndrome
 - (C) Trypanosomiasis
 - (D) Retrolental fibroplasia

194. Which among the following is an approach to health education?
(A) Propaganda (B) Primary health care
(C) Surveillance (D) Rehabilitation
195. The informal version of _____ is buzz group discussion
(A) Workshop (B) Lecture
(C) Demonstration (D) Seminar
196. The 'open type' and 'covert type' is related to
(A) Focus group discussion (B) Colloquium
(C) Role playing (D) Workshop
197. Which among the following is incorrect about 'regulatory approach' of health education?
(A) Managed prevention (B) Felt needs of people
(C) Prohibition (D) Imprisonment
198. Motivation in health education includes the following stages, 'except':
(A) Interest (B) Evaluation
(C) Decision making (D) Group support
199. Which visual aid does require projection?
(A) Exhibits (B) Film strips
(C) Radio (D) Posters
200. In health related millennium development goals in India - "Access to an improved water source" -refers to all 'except'
(A) 20 litres of water /person /day
(B) Protected dug well
(C) Source within 5km of the dwelling
(D) Rain water collection



SPACE FOR ROUGH WORK



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