DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

Test Booklet Series

T. B. C. : AP – 4 – 17/18



TEST BOOKLET

ASSISTANT PROFESSOR IN O.M.E.S.

SI. No.

(COMMUNITY MEDICINE)

1181

Time Allowed: 3 Hours

Maximum Marks : 200

: INSTRUCTIONS TO CANDIDATES :

- 1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF THE SAME SERIES ISSUED TO YOU.
- 2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
- 3. You have to enter your Roll No. on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- 4. YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.
- 5. This Test Booklet contains 200 items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose ONLY ONE response (answer) for each item (question).
- You have to mark (darken) all your responses (answers) ONLY on the separate Answer Sheet provided by using BALL POINT PEN (BLUE OR BLACK). See instructions in the Answer Sheet.
- 7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. There will be no negative markings for wrong answers.
- 8. Before you proceed to mark (darken) in the Answer Sheet the responses to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
- 9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the Answer Sheet issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the Test Booklet, after completion of the examination, for your reference.
- 10. Sheets for rough work are appended in the Test Booklet at the end.

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••	. /	sample for toxold lo.		V.	Out	so ratality rate in paparicse
	(A)	Rabies			Enc	ephalitis iš :
	(B)	Diphtheria			(A)	< 10%
	(C)	Pertussis			(B)	10 – 20%
	(D)	Measles		•	(C)	20-40%
2.	Vac	cine which must be stored in the	. *		(D)	40 – 60%
	free	zer compartment includes :		7.	Chil	kungunya fever is transmitted by:
	(A)	Polio			(A)	Aedes
	(B)	BCG			(B)	Culex
	(C)	DPT			(C)	Mansonia
	(D)	All of the above			(D)	All of the above
3.	in li	ndia, Universal Immunization		8.	Abo	ut 60 – 80% of all reported cases
	Prog	gramme was launched in the			of fo	oodborne diseases are due to:
	year	:			(A)	Staphylococcus aureus
	(A)	1978			(B)	Salmonella
	(B)	1985			(C)	Clostridium Perfringens
	(C)	1992			(D)	Bacillus cereus
. •	(D)	1997		9.	Amı	olifying host for the virus in
4.	The	disease subjecr to International			Kya	sanur Forest Disease is:
	Hea	Ith Regulation includes:			(A)	Pig
	(A)	Polio			(B)	Monkey
	(B)	Malaria			(C)	Cattle
	(C)	Viral influenza			(D)	Man
	(D)	Plague		10.	Gon	nez classification is based on
5.	Bruc	ella abortus infects primarity :			reta	rdation of:
٠	(A)	Goat			(A)	Weight
	(B)	Sheep			(B)	Height
	(C)	Cattle			(C)	Both Height and Weight
	(D)	Pig			(D)	All of the above
(R -	- 4A/ 3	1	(2)			Contd.

11.	Minimum iodine content of salt		(B) T-Cu-380A	
11.	required at consumer level is:		(C) Progestasert	
	(A) 10 ppm		(D) Levonorgestrel	
	(B) 15 ppm			
	(C) 30 ppm	16.	The commonest complaint of women fitted with an Intra Uterine Device is:	
	(D) 40 ppm	. ,	(A) Vaginal Bleeding	
12.	The risk of stomach cancer has been	ï	(B) Pain	.*
	related to the deficiency of:	!	(C) Pelvic infection	
	(A) Vitamin C		(D) Uterine perforation	
	(B) Vitamin D			
	(C) Cobalt	17.	An absolute contraindication for Oral	
	(D) Nickel		Contaceptive Pill use is:	
13.	Prevention of Food Adulteration Act	1	(A) Age over 40 years	
	enacted by the Indian Parliament in		(B) Mild hypertension	
	the year:		(C) Epilepsy	-
•	(A) 1954		(D) Cancer of the breast	
	(B) 1977	18.	Norplant is an example of:	
	(C) 1985 (D) 1997		(A) Subdermal implant	
			(B) Vaginal ring	
14.			(C) First generation IUD	
	intake per day should be reduced to an average of not more than:		(D) Second generation IUD	
	(A) 5 grams	19.	The Medical Termination of	
	(B) 10 grams		Pregnancy Act was enacted in the	
	(C) 15 grams		year:	•
	(D) 20 grams		(A) 1975	
15.	An example for second generation		(B) 1971	
	Intra Uterine Device is:		(C) 1983	
	(A) Lippes loop		(D) 1997	•
KR	-4A/31 (3)	(Turn over)	
		.		

- 20. Scope of family planning services includes:
 - (A) Advice on sterility
 - (B) The proper spacing and limitation of births
 - (C) Education on parenthood
 - (D) All of the above
- 21. Net Reproduction Rate of 1 can be achieved only if the Couple Protection Rate exceeds:
 - (A) 40%
 - (B) 50%
 - (C) 60%
 - (D) 70%
- 22. An example for Post-conceptional method is:
 - (A) Menstrual induction
 - (B) Subdermal implants
 - (C) Vaginal rings
 - (D) Injectable contraceptives
- 23. Rickettsial pox is transmitted by insect vector:
 - (A) Louse
 - (B) Flea
 - (C) Tick
 - (D) Mite

- 24. Average incubation period of rubella is:
 - (A) 10 days
 - (B) 14 days
 - (C) 18 days
 - (D) 21 days
- 25. After how many days does Immunity in measles vaccination develop?
 - (A) 2 days
 - (B) 4 days
 - (C) 8 days
 - (D) 12 days
- 26. How many types of vaccines are available against Japanese Encephalitis?
 - (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
- 27. All of the following are elements of primary health care EXCEPT:
 - (A) Immunization against major infectious diseases
 - (B) Provision of essential drugs
 - (C) Prevention and control of locally endemic diseases
 - (D) None of the above

28.	According to Millennium		(B) 600mg	
	Development Goals in India, target		(C) 400mg	
	to reduce under-five mortality between 1990 and 2015 is:		(D) 800mg	
	(A) 1/3	33.	The protein of maize is deficient in	
	(B) 2/3	00.	the amino acid:	
	(C) 1/4		(A) Tryptophan	
	(D) 1/2		(B) Leucine	
29.		: '	(C) Tryptophan and Lysine	
	At village level, primary health care is provided by all EXCEPT :	:	(D) Lysine	
	(A) ASHA			
	(B) Anganawadi worker	34.	Proximate principles includes all	
	(C) Local dais		EXCEPT:	
	(D) Multipurpose worker (Male		(A) Proteins	
	health worker)		(B) Fats	
,			(C) Carbohydrates	
30.	Population covered by one sub- centre in general is:		(D) Vitamins	
	(A) 1,000	35.	Daily requirement of Vitamin C for an	
	(B) 5,000		adult man is :	
	(C) 10,000		(A) 40mg	
	(D) 25,000		(B) 60mg	
31.	The trace element which plays a role		(C) 80mg	
	in insulin function is:		(D) 150mg	
	(A) Copper	36.	The WHO cut off points for the	
	(B) Cobalt	30.	diagnosis of anaemia in pregnant	
••	(C) Chromium		adult females:	
	(D) Selenium	·	(A) 10gm%	
32.	Daily requirement of calcium for an		(B) 11gm%	
	adult man is :		(C) 12gm%	
<i>J</i> *	(A) 300mg		(D) 13gm%	
	4			

(Turn over)

KR - 4A/31

- 37. Milk from which fat has been removed is known as:
 - (A) Skimmed milk
 - (B) Toned milk
 - (C) Diluted milk
 - (D) Protein milk
- 38. Lathyrism is due to toxin:
 - (A) BOAA
 - (B) Sanguinarine
 - (C) Aflatoxin
 - (D) Pyrrolizidine alkaloids
- 39. ICDS programme is under the Ministry of:
 - (A) Health and Family Welfare
 - (B) Social Welfare
 - (C) Education
 - (D) Rural Development
- 40. The statistical test to compare mean systolic blood pressure amongst 2 groups is :
 - (A) Student t test
 - (B) McNemartest
 - (C) Fischer test
 - (D) Chi-square test
- 41. If the cut off point in the interpretation of a test is raised, one of the following may occur:
 - (A) Sensitivity decreases and specificity increases

- (B) Sensitivity increases and specificity decreases
- (C) Sensitivity increases and specificity increases
- (D) Sensitivity decreases and specificity decreases
- 42. Classical triad of congenital rubella syndrome includes all except:
 - (A) PDA
 - (B) Deafness
 - (C) Microcephalus
 - (D) Cataract
- 43. Which is the most sensitive indicator of recent faecal contamination of drinking water?
 - (A) E. Coli
 - (B) CI. perfringens
 - (C) Streptococci
 - (D) Klebsiella
- 44. The most reliable indicator of thermal comfort is:
 - (A) Effective temperature
 - (B) McAradle's sweat rate
 - (C) Corrected effective temperature
 - (D) Cooling power

- 45. "Delphi method" is used:
 - (A) For calculating pearl index
 - (B) For forming consensus
 - (C) For calculating sample size
 - (D) As a teaching-learning tool
- 46. Ergonomics is concerned with:
 - (A) Improving the genetic endowment of human population
 - (B) Fitting the job to the worker
 - (C) Environmental manipulation according to human needs
 - (D) Improving the agricultural production
- 47. The WHO Theme for the year 2016 is:
 - (A) Aging and health
 - (B) Diabetes
 - (C) Antimicrobial resistance
 - (D) Food safety
- 48. The following statements about breast milk are true, **EXCEPT**:
 - (A) The maximum milk output is seen at 12 months
 - (B) The coefficient of uptake of iron in breast milk is 70%
 - (C) Calcium absorption of human milk is better than that of cow's milk
 - (D) It provides about 65 Kcals per 100 ml

- 49. In a community of population 10,000 with a birth rate of 36 per 1000, five maternal deaths were reported in a year. The Maternal Mortality Rate in that community is:
 - (A) 14.5
 - (B) 13.8
 - (C) 20.0
 - (D) 5.0
- 50. Intra-observer variation can be minimized by:
 - (A) Taking average of several measurements at the same time
 - (B) Standardization of procedures for obtaining measurements
 - (C) Intensive training of observers
 - (D) Repeated measurements over time
- 51. A study among 400 adolescent girls in a PHC found that the mean Hb was 11 g%. If the standard deviation was 4 g%, the 95% Confidence Interval for mean Hb is:
 - (A) 7.0 to 15.0
 - (B) 9.0 to 13.0
 - (C) 10.6 to 11.4
 - (D) 10.8 to 11.2

- 52. Which one of the following statement is FALSE with respect to IDSP?
 - (A) A syndromic diagnosis is made by the Medical Officer
 - (B) Confirmed diagnosis is made based on history, examination and laboratory investigation
 - (C) Sub-centre health work also reports clinical syndromes from private clinics / hospitals
 - (D) Non-communicable diseases are also surveyed under IDSP
- 53. Verbal autopsy is used in:
 - (A) Census
 - (B) Sample registration system
 - (C) Civil registration system
 - (D) National family welfare health survey
- 54. A punched out ulcer covered with blackened scab eschar is a typical feature of:
 - (A) Scrub typhus
 - (B) Murine typhus
 - (C) Q fever
 - (D) Epidemic typhus
- 55. An ideal mosquito net should contain number of holes in one square inch.
 - (A) 75
 - (B) 100

- (C) 125
- (D) 150
- 56. Chandler's index is meant for
 - (A) Filariasis
 - (B) Guinea worm
 - (C) Round worm
 - (D) Ankylostoma
- 57. The response graded by an observer on an "agree-disagree" continuum is based on :
 - (A) Visual analog scale
 - (B) Guttman scale
 - (C) Adjectival scale
 - (D) Likert scale
- 58. In a randomized clinical trial, the essential purpose of randomization is to:
 - (A) Produce double blinding
 - (B) Decrease the follow-up period
 - (C) Decrease the sample size
 - (D) Eliminate the selection bias
- 59. If the prevalence of a disease is expected to be 50%, an investigator wants to measure the prevalence in the range of 45 to 55% with 95% confidence. The minimum sample size required for the study will be:
 - (A) 100
 - (B) 200
 - (C) 300
 - (D) 400

- 60. Pneumoconiosis occurs as a result of inhalation to the dust of size :
 - (A) 0.5 to 3μ
 - (B) $0.2 \text{ to } 0.5 \mu$
 - (C) $3 to 5 \mu$
 - (D) $5 to 8 \mu$
- 61. The referral date for Indian Census 2011 was :
 - (A) 1st April, 2011
 - (B) 1st February, 2011
 - (C) 1st March, 2011
 - (D) 1st April, 2010
- 62. Kappa coefficient is a procedure which can be used to:
 - (A) Assess the validity of answers given by a group of patients
 - (B) Assess the agreement as regards responses to two different sources
 - (C) Assess the correlation between blood pressure readings taken on the same patients by two different nurses
 - (D) Adjust for confounding at analysis stage

- 63. Most likely reason for failure to establish a cause-effect relationship with small sample sizes is:
 - (A) Alpha error or Type I error
 - (B) Beta error or Type II error
 - (C) Measurement errors
 - (D) Observer errors
- 64. Latent period + period of maximum communicability will give crude estimate of the:
 - (A) Lead time
 - (B) Lag time
 - (C) Generation time
 - (D) Incubation period
- 65. A large amount of subclinical infection occurs in all of the following diseases **EXCEPT**:
 - (A) Hepatitis A
 - (B) Hepatitis B
 - (C) Rubella
 - (D) Measles
- 66. Serum should be separated from blood prior to transportation if the time taken to reach the laboratory is:
 - (A) >6 hours
 - (B) > 12 hours
 - (C) > 18 hours
 - (D) > 24 hours

- 67. Most commonly reported Rickettsial infection in India is:
 - (A) Scrub typhus
 - (B) Indian Tick Typhus
 - (C) Epidemic typhus
 - (D) Rickettsial pox
- 68. A Specific Flea Index greater than _____ for Xenopsylla cheopis on rats represents a potentially dangerous situation.
 - (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
- 69. Humans are:
 - (A) Dead end host for Leptospires
 - (B) Intermediate host for Leptospires
 - (C) Amplifying host for Leptospires
 - (D) Cyclo-propagative host for leptospires
- 70. In normally used doses, chlorination does not affect:
 - (A) Salmonella
 - (B) Polio
 - (C) Shigella
 - (D) HIV
- 71. Pasteurization destroys:
 - (A) All pathogenic organisms only
 - (B) All organisms
 - (C) Some pathogenic organism
 - (D) Most pathogenic organisms

- 72. The highest content of niacin is present in:
 - (A) Jaggery
 - (B) Groundnuts
 - (C) Pistachio
 - (D) Milk
- 73. A teacher will be classified as a:
 - (A) Sedentary worker
 - (B) Moderate worker
 - (C) Heavy worker
 - (D) Average worker
- 74. A "safety margin" of + 2 SD is not incorporated for the RDA of:
 - (A) Energy
 - (B) Fats
 - (C) Water soluble vitamins
 - (D) Fat soluble vitamins
- 75. A 16 years old girl sustains a clean, non-penetrating wound, with negligible tissue damage reports within 6 hours. She is fully vaccinated as per the immunization schedule. After wound toileting what should be done with regards to TT immunization:
 - (A) Nothing more required
 - (B) One dose of tetanus toxoid to be given
 - (C) Two dose of tetanus toxoid to be given
 - (D) One dose of tetanus toxoid with human tetanus immunoglobulin is needed

- 76. A form of economic analysis which compares relative costs and outcomes (effects) of two or more programs is called:
 - (A) Cost effective analysis
 - (B) Cost benefit analysis
 - (C) Cost utility analysis
 - (D) Cost accounting
- 77. The mean corpuscular haemoglobin concentration in all ages should be:
 - (A) 30%
 - (B) 32%
 - (C) 34%
 - (D) 36%
- 78. A 3 year old child had diarrhoea for 8 days. On examination the child was irritable, eyes were sunken and skin pinch goes back slowly. According to IMNCI guidelines, the child has diarrhoea with:
 - (A) No dehydration
 - (B) Some dehydration
 - (C) Severe dehydration
 - (D) Very severe dehydration

- 79. Which one of the following is TRUE about Multi Drug Treatment (MDT) for Leprosy?
 - (A) Safe during pregnancy
 - (B) Contraindicated in patients with HIV infection
 - (C) Includes rifampicin, dapson clofazimine for paucibacillary leprosy
 - (D) Should be stooped if the patient develops severe type 2 lepra reaction
- 80. Human Developmental Index includes all EXCEPT:
 - (A) Adult literacy
 - (B) Per capita income
 - (C) Life expectancy
 - (D) Infact mortality rate
- 81. The first step in the investigation of a disease outbreak is:
 - (A) Confirmation of the existence of an epidemic
 - (B) Delineation of the population affected
 - (C) Verification of the diagnosis
 - (D) Preparing a spot map of the area

- 82. If the prevalence of a disease is 10% and the sensitivity of a screening test is 90% with a specificity of 70%, the positive predictive value of the test is:
 - (A) 25%
 - (B) 50%
 - (C) 80%
 - (D) 90%
- 83. The acronym MPOWER is related to:
 - (A) Diabetes
 - (B) Alcohol
 - (C) Tobacco
 - (D) CVD
- 84. Socially acquired learned behaviour is called:
 - (A) Socialization
 - (B) Custom
 - (C) Culture
 - (D) Acculturation
- 85. Statistical power of a trial is equal to:
 - (A) $1+\alpha$
 - (B) $1-\alpha$
 - (C) $1+\beta$
 - (D) $1-\beta$
- 86. What will be the minimum sample size required to study a parameter whose prevalence from previous studies is 25% after having assumed a alpha error of 5% with a relative precision of 10%?
 - (A) 300

- (B) 600
- (C) 1000
- (D) 12000
- 87. The reservoir for tetanus bacilli is:
 - (A) Soil
 - (B) Man
 - (C) Faeces
 - (D) Both man and soil
- 88. Which one of the following is not a part of the triple bottom line approach in sustainable development goals?
 - (A) Economic development
 - (B) Environmental sustainability
 - (C) Social inclusion
 - (D) Community participation
- 89. If a friend of yours would like to test two interventions but has limited resources and wants a RCT design that will help test both interventions with controls at the same time, which of the following design would you suggest to him?
 - (A) Classical RCT
 - (B) Parallel design
 - (C) Factorial design
 - (D) Cross over design

- 90. An absolute contraindication to kill vaccine is:
 - (A) Pregnancy
 - (B) Lymphoma
 - (C) Reaction to previous dose
 - (D) Immunodeficiency
- 91. Which of the following is a form of economic analysis in which two activities are compared in terms of their costs and the relative degree to which they obtain the desired objectives?
 - (A) Cost utility analysis
 - (B) Cost benefit analysis
 - (C) Cost effectiveness analysis
 - (D) Cost minimization analysis
- 92. Duration of period of quarantine is:
 - (A) Shortest incubation period
 - (B) Longest incubation period
 - (C) Mean of longest and shortest incubation period
 - (D) Period of infectivity
- 93. In a study you find that the OR for association of X with Y was 1.5.
 When you stratified based on variable

- Zyou found that the OR in the two sub groups was 1.8 and 1.2. What would you conclude about Z?
- (A) Variable Z is a source of bias in the study
- (B) Variable Z is a confounder
- (C) Variable Z is an affect modifier
- (D) Variable Z is just a random variable
- 94. Which of the following is NOT one of the building blocks in the health system framework?
 - (A) Service delivery
 - (B) Health workforce
 - (C) Financial risk protection
 - (D) Leadership and governance
- 95. The likelihood of causal relationship increases by :
 - (A) Temporal association
 - (B) Strength of association
 - (C) Biological plausibility
 - (D) All of the above
- 96. Welder's flash is due to exposure to:
 - (A) Ionizing radiation
 - (B) Ultraviolet radiation
 - (C) Bright illumination
 - (D) Poor illumination

- 97. An investigator wishes to perform a RCT to evaluate a new beta blocker as treatment of hypertension. To be eligible for the study, subjects must have a resting diastolic blood pressure (DBP) of at least 90 mmHg. One hundred patients seen at the screening with this level of hypertension are recruited for the study. When their blood pressure was measured two weeks later, only 65 of them have DBP of 90 mmHg or more. The most likely explanation for this is:
 - (A) Spontaneous resolution
 - (B) Regression to the mean
 - (C) Baseline drift
 - (D) Measurement error
- 98. The disease agent undergoes development changes but no multiplication in :
 - (A) Plague bacilli in rat flea
 - (B) Malaria parasite in mosquito
 - (C) Microfilaria in mosquito
 - (D) All of the above
- 99. Which of the following is NOT one of the health promotion action measures under the Ottawa charter of 1986?
 - (A) Build Healthy Public Legislation

- (B) Create Supportive Environments
- (C) Strengthen Community Actions
- (D) Develop Personal Skills
- 100. In Japanese Encephalitis, the amplifier hosts are:
 - (A) Pigs
 - (B) Birds
 - (C) Man
 - (D) Mosquitoes
- 101. Among women aged 18 to 34 years in a community, weight is normally distributed with a mean of 52 kg and a standard deviation of 7.5 kg. What percentage of women will have a weight over 59.5 kg?
 - (A) 2
 - (B) 5
 - (C) 16
 - (D) 32
- 102. A plotting device used in metaanalysis to detect publication bias :
 - (A) Funnel plot
 - (B) Forest plot
 - (C) Scatter plot
 - (D) Scree plot

- 103. Compared to human milk, cow's milk has a higher content of :
 - (A) Tryptophan and cysteine
 - (B) Vitamin C
 - (C) Fat
 - (D) Lactose
- 104. The time interval between infection and maximal infectivity is called:
 - (A) Incubation period
 - (B) Serial interval
 - (C) Generation time
 - (D) Latent period
- 105. The size of dust particle inhaled directly into the lungs is:
 - (A) < 5 microns
 - (B) 5-10 microns
 - (C) 10 15 microns
 - (D) 15-20 microns
- 106. What is meant by "treatment after default"?
 - (A) Treatment taken for at least 2 months, discontinued for 2 months and sputum positive at present
 - (B) Treatment taken for at least 2 months, discontinued for 1 month and sputum negative at present

- (C) Treatment taken for at least 1 month, discontinued for 2 months and sputum negative at present
- (D) Treatment taken for at least 1 month, discontinued for 2 months and sputum positive at present
- 107. Which one of the following is **NOT** a second line oral anti-TB drug?
 - (A) Ethionamide
 - (B) Amikacin
 - (C) Para-amino salicylic acid
 - (D) Cycloserine
- 108. A 14 months old completely unimmunized child has come to the PHC. Which of the following vaccine(s) administration will be ideal?
 - (A) Only BCG
 - (B) BCG, Pentavalent-1, OPV-1
 - (C) Pentavalent-1, OPV-1, Measies
 - (D) BCG, Pentavalent-1, OPV-1, Measles

- 109. A known 40 years old diabetic patient on OHA is adhering with treatment and has controlled blood sugar levels. As per the ICMR guidelines, at what frequency will you advice the patient to undergo FBS and PPBS testing?
 - (A) Every month
 - (B) Every 2 months
 - (C) Every 3 months
 - (D) Every 6 months
- 110. A 1 year old child was brought to the PHC with complaints of fever. On examination, the child had respiratory rate of 65/min with NO chest in-drawing. No danger signs were present. How will you classify the child?
 - (A) No pneumonia
 - (B) Pneumonia
 - (C) Severe pneumonia
 - (D) Very severe pnemonia
- 111. A researcher wants to compare out of pocket expenditure (in rupees) among three groups-children, reproductive women and elderly. The expenditure is not following normal distribution. Appropriate statistical test is:
 - (A) Wilcoxon Rank Sum Test
 - (B) Kruskal Wallis Test

- (C) McNemar Chi-square Test
- (D) ANOVA
- 112. Children were assessed for malnutrition and categorized as normal, moderate and severe undernutrition. Risk factors for malnutrition were assessed. Which type of adjusted analysis will be preferred to identify risk factors?
 - (A) Linear regression
 - (B) Binary logistic regression
 - (C) Ordinal logistic regression
 - (D) Conditional logistic regression
- 113. Neyman bias is:
 - (A) Social desirability bias
 - (B) Ascertainment bias
 - (C) Rumination bias
 - (D) Incidence-prevalence bias
- 114. As per MOHFW guidelines on deworming, if the prevalence of soil transmitted Helminthes is 60%, deworming strategy to be followed is:
 - (A) Preschool and school children at least twice in a year
 - (B) Preschool and school children at least once in a year
 - (C) Preschool, school children and pregnant women twice in a year
 - (D) Mass deworming twice in a year

- 115. Directly Observed Therapy is followed in treatment of:
 - (A) Visceral Leishmaniasis
 - (B) Leptospirosis
 - (C) Filariasis
 - (D) None of the above
- 116. All are methods of adjusting confounders **EXCEPT**:
 - (A) Stratified analysis
 - (B) Multivariate analysis
 - (C) Matching
 - (D) Sensitivity analysis
- 117. Jai Vigyan Mission Mode is a project related to:
 - (A) Screening for refractive errors in school children
 - (B) Screening for Human Papilloma Virus infection among adolescents
 - (C) Rheumatic Heart disease
 - (D) Soil Transmitted Helminths (STH)
- 118. Information on health infrastructure, health manpower are primarily reported in:
 - (A) National Health Accounts
 - (B) National Family Health Survey
 - (C) National Rural Health Statistics
 - (D) Census

- 119. Which of the following is **NOT** a neglected tropical disease?
 - (A) Tuberculosis
 - (B) Dengue
 - (C) Rabies
 - (D) Scrub typhus
- 120. Criteria to discontinue Mass Drug Administration (MDA) for Filariasis control is:
 - (A) Five annual rounds of MDA are completed
 - (B) No new case of Filariasis detected in the previous year
 - (C) 2% prevalence of microfilariae in community surveys
 - (D) No antigenemia in children aged 2-5 years
- 121. Active immunity cannot be aquired by:
 - (A) Exposure to infectious disease
 - (B) Inoculation with liver of killed vaccine
 - (C) Inoculation with toxoids
 - (D) Inoculation with immune serum
- 122. Herd immunity does not protect an individual against:
 - (A) Diphtheria
 - (B) Poliomyelitis
 - (C) Measles
 - (D) Tetanus

- 123. The vaccine which is contraindicated during pregnancy is:
 - (A) Typhoid vaccine
 - (B) Oral polio vaccine
 - (C) Cholera vaccine
 - (D) Meningococcal vaccine
- 124. An absolute contraindication to kill vaccine is:
 - (A) Pregnancy
 - (B) Lymphoma
 - (C) Reaction to previous dose
 - (D) Immunodeficiency
- 125. Vaccine prepared from two or more strains of same species is called:
 - (A) Autogenous
 - (B) Combined
 - (C) Polyvalent
 - (D) Attenuated
- 126. All the following vaccines must be stored in the freezer compartment, **EXCEPT**:
 - (A) Polio
 - (B) Measles
 - (C) BCG
 - (D) Tetanus toxoid
- 127. All of the following diseases are notifiable under International Health Regulation, EXCEPT:
 - (A) Cholera

- (B) Plague
- (C) Yellow fever
- (D) Japanese encephalitis
- 128. Duration of period of quarantine is:
 - (A) Shortest incubation period
 - (B) Longest incubation period
 - (C) Mean of longest and shortest incubation period
 - (D) Period of infectivity
- 129. Health Surveillance is:
 - (A) Collection of data
 - (B) Interpretation of data
 - (C) Monitoring program
 - (D) Continuous scrutiny
- 130. Linen is ideally sterilized by:
 - (A) Boiling
 - (B) Autoclaving
 - (C) Use of chemicals
 - (D) Gamma irradiation
- 131. In an epidemic situation the first step will be to:
 - (A) Identify the population of at risk
 - (B) Confirmation of existence of an epidemic
 - (C) Confirm the diagnosis
 - (D) Evaluation of ecological factors

- 132. The best method to study the incidence of diarrhea in a community is:
 - (A) Cross-sectional study
 - (B) Cohort study
 - (C) Case control study
 - (D) Double blind placebo study
- 133. A study shows that carcinoma cervix was 5 times more common in those who had multiple sexual partners than in those with single partners. The attributable risk of exposure is:
 - (A) 20%
 - (B) 40%
 - (C) 80%
 - (D) 5%
- 134. Carriers are more dangerous than cases because they:
 - (A) Increase virulence
 - (B) Increase duration of disease
 - (C) Infect more people
 - (D) Are more infections
- 135. The time required for 50% of cases to occur following exposure is:
 - (A) Median incubation period
 - (B) Mean incubation period

- (C) Minimum incubation period
- (D) Average incubation period
- 136. In an outbreak of cholera in a village of 2000 population 20 cases have occurred and 5 have died. The case fatality rate is:
 - (A) 1%
 - (B) 0.25%
 - (C) 5%
 - (D) 25%
- 137. Number of deaths in people above 50 years as a percentage of total deaths of all age groups is:
 - (A) Expectancy of life
 - (B) Proportional mortality ratio
 - (C) Mortality by cause
 - (D) Crude death rate
- 138. Which of the following indicated severity of illness?
 - (A) Case fatality rate
 - (B) Prevalence rate
 - (C) Proportional mortality rate
 - (D) Incidence rate
- 139. Community intervation studies are:
 - (A) Cohort study
 - (B) Cross-sectional study
 - (C) Field trials
 - (D) Correlation study

- 140. Seasonal variation of the disease can be assessed by:
 - (A) Comparing incidence of disease
 - (B) Comparing prevalence of disease
 - (C) Using mortality rates
 - (D) Using survival rates
- 141. Analytical studies are undertaken to:
 - (A) Determine the occurrence and distribution of disease
 - (B) Screening of new cases in the community
 - (C) Test the etiological hypothesis
 - (D) None of the above
- 142. Confounding bias in a case control study can be removed by:
 - (A) Double blinding
 - (B) By properly recalling events
 - (C) Matching
 - (D) By selecting representative population
- 143. A study is called "double blind" when:
 - (A) The subjects know they belong to the control group
 - (B) The investigators do not understand the pathology of condition

- (C) No one knows of the group allocation and treatment received
- (D) All of the above
- 144. The likelihood of causal relationship increase by:
 - (A) Temporal association
 - (B) Strength of association
 - (C) Biological plausibility
 - (D) All of the above
- 145. An agent with low pathogenicity and high infectivity would result in development of:
 - (A) Carrier
 - (B) Clinical case
 - (C) Epidemic
 - (D) Pandemic
- 146. An example of cyclopropagative transmission in :
 - (A) Plague bacilli in rat flea
 - (B) Malarial parasite in mosquito
 - (C) Microfilaria in mosquito
 - (D) Guinea worm embryo in Cyclops
- 147. Interval between onset of primary and secondary case is called:
 - (A) Latent period
 - (B) Serial interval
 - (C) Generation time
 - (D) Incubation period

- 148. Interval between receipt of infection by a host and maximal infectivity is:
 - (A) Average incubation period
 - (B) Generation time
 - (C) Latent period
 - (D) Communicable period
- 149. Secondary attack rate reflects:
 - (A) Severity
 - (B) Communicability
 - (C) Fatality
 - (D) Infectivity
- 150. An area is declared free of epidemic after:
 - (A) The last secondary case recovers
 - (B) No case reported within one incubation period of the disease
 - (C) No new case reported within twice the incubation period of disease
 - (D) No new case reported for six months since the last case
- 151. In population of 2000, totally 10 were found to be affected with a particular disease. If the disease lasts for 2 years, the prevalence is:
 - (A) 20/1000 ·
 - (B) 30/1000
 - (C) 10/1000
 - (D) 50/1000

- 152. Patients admitted to hospital with myocardial infarction were questioned about their egg consumption. Agroup of age and sex matched patients admitted to a fracture clinic were also questioned about their egg consumption. This is a:
 - (A) Cross-sectional study
 - (B) Cohort study
 - (C) Case control study
 - (D) Double blind palcebo study
- 153. Calculate the Relative Risk from the following data:

	Lung Cancer				
	Positive	Negative			
Smoking present	40	990			
Smoking absent	2	1028			

- (A) 1
- (B) 5
- (C) 10
- (D) 20
- 154. In carcinoma cervix is 5 times more common in those with multiple sexual partners, the attributable risk of exposure is:
 - (A) 20%
 - (B) 40%
 - (C) 80%
 - (D) 5%

- 155. The study where population is the unit of study is:
 - (A) Cross-sectional
 - (B) Ecological
 - (C) Case-control
 - (D) Cohort
- 156. The number of malaria cases reported during the last 10 years in a town is as follows: 250, 320, 190, 300, 5000, 100, 260, 350, 320 and 160. The appropriate measure of average for this data will be:
 - (A) Arithmetic mean
 - (B) Mode
 - (C) Median
 - (D) Geometric mean
- 157. A concept directed against prevention of risk factors of coronary artery disease is:
 - (A) Primordial Prevention
 - (B) Secondary Prevention
 - (C) Health Education
 - (D) Primary Prevention
- 158. A person was completely immunization against Tetanus 10 years 10 years ago, now presents with a clean wound sustained 2.5 hours ago. He should be given:
 - (A) Full course of Tetanus toxoid

- (B) Single dose of Tetanus toxoid
- (C) Human tetanus globulin
- (D) Human tetanus globulin and single dose of toxoid
- 159. A chest symptomatic is being investigated for tuberculosis. Two sputum smears were negative. The symptoms persisted despite a course of antibiotics. What is the next step?
 - (A) Do a chest X ray
 - (B) Do a culture
 - (C) Repeat two sputum smear examination
 - (D) Do a chest X-ray; if negative do a culture
- 160. For the treatment of a case of class III dog bite, all of the following is correct EXCEPT:
 - (A) Give immunoglobulin for passive immunity
 - (B) Give ARV
 - (C) Immediately stitch wound antibiotic coverage
 - (D) Wash wound with soap and water

161.	How many grams of absolute alcohol			(C)	Paracelsus
	does one alcoholic "drink" contain?			(D)	Graunt
	(A)	5	166.	Joh	n Snow who laid the foundation
	(B) 10			of e	epidemic investigation was by
	(C)	15	,	prof	ession:
	(D)	30		(A)	Asurgeon
162.	Both alcohol and tobacco are risk			(B)	A gynaecologist
	factors for:			(C)	A brewer
•	(A)	Intra-uterine growth retardation		(D)	An anaesthetist
	(B)	(B) Amblyopia		ln in	dia, the Registration of Births and
	(C)	C) Thromboangitis obliterans	,07.		ths Act was passed in the year:
	(D) Chronic parenchymal liver disease	í		(A)	1859
			(B)	1881	
163.	Cigarettes Act was enacted in the			(C)	1901
	year:			(D)	1921
	(A)	1971			
	(B)	1975	168.		in 1953 became the first country
•	(C)	1983		in th	e world to launch a :
	(D)	2003		(A)	Family Planning Programme
164	Tobacco is not related as a direct risk factor for:			(B)	Tuberculosis Control Programme
			•	(C)	Malaria Control Programme
	(A)	Buerger's disease		(D)	Maternal and Child Health
	(B)	Ischemic Heart Disease			Programme
	(C)	Diabetes mellitus	169.	The	world was declared free of
	(D)	Oral Cancers		sma	llpox in the year :
165.	Who among the following is known			(A)	1972
	as the "Father of Biostatistics"?			(B)	1976
		Forr		(C)	1980

(B) Hippocrates

(D) 1984

- 170. In India, the first ever National Health Policy was enunciated in :
 - (A) 1978
 - (B) 1982
 - (C) 1986
 - (D) 1990
- 171. Provision of basic health care at the village level by a trained Village Health Guide (VHG) is an example of which principle of primary health care?
 - (A) Community participation
 - (B) Appropriate technology
 - (C) Multi-sectoral approach
 - (D) Equitable distribution
- 172. In the revised targets of health for all, which one of the following will be used to measure "health equity"?
 - (A) Access to safe water and sanitation
 - (B) Life expectancy at birth
 - (C) Childhood stunting
 - (D) Eradication of measles
- 173. The target year for achieving Millennium Developmental Goals (MDG) is:
 - (A) 2010
 - (B) 2015

- (C) 2020
- (D) 2025
- 174. The theory of "Epidemiological Web of Causation" was forwarded by:
 - (A) McMahon and colleagues
 - (B) Henle-Koch
 - (C) Robert Koch and Louis Pasteur
 - (D) John Stuart Mill
- 175. Education and motivation for a healthy life-style is:
 - (A) Primordial prevention
 - (B) Secondary prevention
 - (C) Health promotion
 - (D) Specific protection
- 176. The inability to carry out certain functions or activities which are expected for that age / gender is known as:
 - (A) Disease
 - (B) Impairment
 - (C) Disability
 - (D) Handicap
- 177. Use of chemoprophylactic drugs to protect against malaria is:
 - (A) Primordial prevantion
 - (B) Primary prevention
 - (C) Secondary prevention
 - (D) Tertiary prevention

- 178. Measures that can be applied at the stage of early, discernible disease include:
 - (A) Primordial and primary prevention
 - (B) Primary and secondary prevention
 - (C) Secondary and tertiary prevention
 - (D) Primary, secondary and tertiary prevention
- 179. Time interval between "Sufficient cause" becoming operative and the start of first pathological changes of the disease is known as:
 - (A) Generation time
 - (B) Latent period
 - (C) Lag phase
 - (D) Induction period
- 180. Screening for breast cancer using mammography is:
 - (A) Primary prevention
 - (B) Primordial prevention
 - (C) Health promotion
 - (D) Secondary prevention
- 181. Fortification of foods with specific nutrients is an example of:
 - (A) Primordial prevention
 - (B) Primary prevention

- (C) Secondary prevention
- (D) Tertiary prevention
- 182. A woman 28 weeks pregnant, meets with a fatal accident. While calculating Maternal Mortality Rate she will be:
 - (A) Included in the numerator only
 - (B) Included in the denominator only
 - (C) Included in both the numerator and denominator
 - (D) Excluded from both the numerator and the denominator
- 183. The denominator in Perinatal Mortality Rate is:
 - (A) Live births + fetal deaths of 28 or more week gestation
 - (B) All stillbirths
 - (C) Fetal deaths of 28 or more week gestation + deaths of infacts
 - (D) All live births
- 184. If there were 0.5 deaths due to TB per 1000 population in a year, this represents the :
 - (A) Cause specific mortality rate
 - (B) Proportionate mortality ratio
 - (C) Case fatality rate
 - (D) Crude death rate due to TB

185.	. The denominator in crude death rate	(B) Focus group discussion		
	and crude birth rate is :			
	(A) Different for both	(C) Use of mass media		
	(B) Same for both	(D) Extensive use of lectures		
	(C) Not applicable	190. The best way to teach women in the		
	(D) None of the above	urban areas about ORS is through:		
186.	Which one of the following is NOT a	(A) Flash cards		
	one-way communication?	(B) Demonstration		
	(A) Symposium	(C) Lectures		
	(B) Lecture	(D) Role play		
	(C) Group discussion(D) Role play	191. Endemic typhus is transmitted by the		
187.	The best method of health instruction	vector:		
	is:	(A) Pediculus humanus		
4	(A) Providing reading	(B) Hard tick		
	assignments (B) Organizing film shows or dramas	(C) Xenopsylla sp.		
ů.		(D) Trombiculid mite		
	(C) Setting an example	192. Trombiculid mite transmits:		
	(D) Giving lectures	(A) Scrub typhus		
188.	Receiver's false beliefs are a type of	(B) Epidemic typhus		
	which type of barrier to communication?	(C) Endemic typhus		
	(A) Physiological	(D) Relapsing fever		
	(B) Environmental	193. The insecticide used against scables and for treatment of lice is:		
÷	(C) Cultural			
	(D) Psychological	(A) Malathion		
189.	The method which is generally more	(B) Temephos		
	TREE LAND SECTION SECT	(D) TOTTICPHOS		

behaviour is:

(A) Counselling

effective in changing human

(C) Pyrethrum

(D) Permethrin

- 194. The insecticide that can be used in drinking water is:
 - (A) Malathion
 - (B) Temephos
 - (C) Propoxur
 - (D) Fenthion
- 195. Structurally, antigens are composed of:
 - (A) Lipids
 - (B) Protains
 - (C) Carbohydrates
 - (D) Minerals
- 196. The incidence of enteric fever is highest in the age group:
 - (A) Below 1 year
 - (B) 1 to 5 years
 - (C) 5 to 19 years
 - (D) 19 to 25 years
- 197. Which one of the following is **NOT** true about the typhoid vaccine Ty21a?
 - (A) It can be given along with other vaccines
 - (B) It has an efficacy of about 70%

- (C) Travellers require to be vaccinated 3 years
- (D) It is a live, attenuated oral vaccine
- 198. After vaccination with typhoid vaccine, antibiotics should be avoided for:
 - (A) 1 day
 - (B) 3 days
 - (C) 5 days
 - (D) 7 days
- 199. One complete cycle of transmission of JE between pigs takes approximately:
 - (A) 4 days
 - (B) 12 days
 - (C) 18 days
 - (D) 24 days
- 200. Aedes egypti mosquito is primarily:
 - (A) Endophilic
 - (B) Exophylic
 - (C) A night biter
 - (D) Zoophilic