

MIZORAM PUBLIC SERVICE COMMISSION

**MIZORAM HEALTH SERVICES (COMBINED) EXAMINATION
UNDER HEALTH & FAMILY WELFARE DEPARTMENT,
GOVERNMENT OF MIZORAM, JULY-2024**

TECHNICAL SUBJECT PAPER-III

Time Allowed : 2 hours

FM : 200

*All questions carry equal marks of 2 each.
Attempt all questions.*

1. Vitamin A prophylaxis to a child is:
(a) Primordial prevention (b) Health protection
(c) Specific protection (d) Secondary prevention
2. Egg has all vitamins, except:
(a) B1 (b) B6
(c) C (d) A
3. Soling index is a measure of:
(a) Soil pollution (b) Water pollution
(c) Noise pollution (d) Air pollution
4. 'Sanitation barrier' implies:
(a) Segregation of feces (b) Elimination of flies
(c) Water pollution (d) Personal hygiene
5. All of the following facilities are provided to pregnant women under Janani Shishu Suraksha Karyakram (JSSK), except:
(a) Free family planning kit
(b) Free blood if required
(c) Free diet up to 7 days for caesarean section
(d) Free transportation from home to institution
6. Maternal Mortality Ratio is calculated by:
(a) Maternal deaths/ live birth. (b) Maternal deaths/ 1000 live births
(c) Maternal deaths/ 100,000 live births (d) Maternal deaths/ 100,000 populations
7. Not included among major criteria in acute rheumatic fever is:
(a) Erythema marginatum (b) Polyarthralgia
(c) Chorea (d) Pancarditis
8. Calculate the BMI of a person weighing 64 kg and height 160 cm:
(a) 20 (b) 24
(c) 25 (d) 32
9. In India, most common cause of cervical cancer is:
(a) HPV 31, 45 (b) HPV 6, 11
(c) HPV 31, 33 (d) HPV 16, 18
10. WHO defines blindness if the visual activity is less than:
(a) 3/60 (b) 18/38
(c) 9/60 (d) 6/6

11. A person reports 4 hours after a having a clean wound without laceration. He had taken TT 10 years before. the next step in management is:
 - (a) Full course Tetanus vaccine to be given
 - (b) Full dose TT with TIG
 - (c) Single dose TT
 - (d) No need of any vaccine
12. Period of communicability of measles is:
 - (a) 3 days before and 10 days after appearance of rashes
 - (b) 3 weeks after appearance of rashes
 - (c) 1 week before appearance of rashes
 - (d) 4 days before and 5 days after appearance of rashes
13. Incubation period for cholera:
 - (a) 1-7 days
 - (b) Few hours to 5 days
 - (c) 2 weeks
 - (d) 4 weeks
14. All of the following are true about chicken pox, except:
 - (a) Superficial rash
 - (b) Secondary attack rate is 90%
 - (c) Causative agent is herpes simplex-3
 - (d) Only one stage of rash is seen
15. Classical triad of Congenital Rubella syndrome includes all except:
 - (a) PDA
 - (b) Deafness
 - (c) Microcephalus
 - (d) Cataract
16. Which of the following is not true about influenza virus?
 - (a) Influenza virus A is subject to frequent antigenic variation
 - (b) Antigenic drift is a gradual antigenic change over a period of time
 - (c) Antigenic shift is due to genetic recombination of virus
 - (d) Major epidemics are due to antigenic drift
17. True about epidemiology of pertussis is:
 - (a) Incubation period of 7-14 days
 - (b) Chronic carriers are source of infection
 - (c) All age groups are equally susceptible
 - (d) Secondary attach rate is 40% in unimmunized children
18. WHO defines Multi-drug resistant (MDR) Tuberculosis strain as one that is:
 - (a) At least resistant to INH
 - (b) At least resistant to Rifampicin
 - (c) Resistant to INH and Rifampicin with or without resistant to other anti TB drugs
 - (d) Resistant to Streptomycin only
19. Percentage of individuals who show a positive reaction to a standard tuberculin test is the:
 - (a) Prevalence of infection
 - (b) Prevalence of disease
 - (c) Incidence of infection
 - (d) Tuberculin conversion index
20. All the following are true regarding pulse polio immunization, except:
 - (a) Simultaneous mass administration of OPV on a single day to all children 0-5 years of age
 - (b) Occurs as two rounds about 4-6 weeks apart during low transmission season of polio
 - (c) The dose do not replace the doses received during routine immunization services
 - (d) There should be minimum 4 weeks interval between PPI and scheduled OPV doses
21. Transplacental transmission is not seen in:
 - (a) Hepatitis A
 - (b) Hepatitis B
 - (c) HIV
 - (d) Varicella

22. A mother is HBsAg positive at 32 weeks of pregnancy. What should be given to the new-born to prevent neonatal infection?
- (a) Hepatitis B vaccine + Immunoglobulin
 - (b) Immunoglobulin only
 - (c) Hepatitis B vaccine only
 - (d) Immunoglobulin followed by vaccine 1 month later
23. Following disaster, green colour of triage used for which patients:
- (a) Dead
 - (b) Medium priority
 - (c) High priority
 - (d) Ambulatory
24. Persistent diarrhoea in infants:
- (a) 7 days
 - (b) 14 days
 - (c) 21 days
 - (d) 1 month
25. The action of soap in washing bite wound by a rabid dog is:
- (a) Removal of dirt
 - (b) Kills virus
 - (c) Prevents virus from getting attached to nerve endings
 - (d) Relieves pain
26. Monetary benefit is measured in:
- (a) Program budgeting system
 - (b) Network analysis
 - (c) Cost effective analysis.
 - (d) Cost benefit analysis
27. Regarding functions of ASHA, all are true except?
- (a) Malaria Slide preparation
 - (b) Facilitate Immunization
 - (c) Accompany pregnant females to hospital
 - (d) Spread awareness about contraception
28. In a prospective study, 1200 patients were randomly selected to study the effect of a new drug. The drug will be given for 5 years and its association with cataract will be studied. What type of study is this?
- (a) Case control study
 - (b) Cohort study
 - (c) Randomized clinical trial
 - (d) Cross sectional study
29. Ratio of incidence of a disease among the exposed to the incidence among nonexposed is:
- (a) Odds ratio.
 - (b) Relative risk
 - (c) Absolute risk.
 - (d) Attributable risk
30. The ability of a test to correctly diagnose the percentage of sick people who are having the condition is called?
- (a) Sensitivity
 - (b) Specificity
 - (c) Positive predictive value
 - (d) Negative predictive value
31. Best time to screen breast self-examination (BSE) is:
- (a) 1 week before menstruation
 - (b) 1 week after menstruation
 - (c) During ovulation
 - (d) 2–3 days post-ovulation
32. In a distribution, the one which is present in greatest frequency is called:
- (a) Mean
 - (b) Median
 - (c) Mode
 - (d) Standard deviation
33. Human developmental index includes all except:
- (a) Adult literacy
 - (b) Per capita income
 - (c) Life expectancy
 - (d) Infant mortality rate
34. Iceberg phenomenon is not shown by the following disease:
- (a) Polio
 - (b) Measles
 - (c) Typhoid
 - (d) Diphtheria

35. In a case of epidemic, 3 villages are affected simultaneously with typhoid cases. Upon study it is found that one milk man is going to all these 3 villages. Identify the type of epidemic:
- (a) Point source (b) Common source, propagative
(c) Common source, single exposure (d) Common source, continuous exposure
36. Secondary attack rate is measure of:
- (a) Pathogenicity (b) Communicability
(c) Morbidity (d) Virulence
37. Sputum can be disinfected by all except:
- (a) Autoclaving (b) Chlorhexidine
(c) Cresol (d) Boiling
38. Diet given to a pregnant lady under ICDS is:
- (a) 600 Kcal + 20 g proteins/day (b) 250 Kcal + 12 g proteins/day
(c) 300 Kcal + 15 g proteins/day (d) 350 Kcal + 15 g proteins/day
39. Ergonomics means:
- (a) Fitting the job to the worker (b) Fitting the worker to the job
(c) Industrial hygiene (d) Industrial health
40. All of the following are benefits of ESI Act, except:
- (a) Medical benefit (b) Rehabilitation allowance
(c) Sickness benefit (d) Nutritional allowance
41. All of the following are scales used for assessing socio- economic status of populations, except?
- (a) Udai Pareek scale (b) Likert scale
(c) BG Prasad scale (d) Modified Kuppaswamy scale
42. To achieve a net reproduction rate (NRR) of 1, the couple protection rate (CPR) should be:
- (a) 20% (b) 60%
(c) 40% (d) 30%
43. Best contraceptive for a newly married healthy couple:
- (a) Barrier method (b) IUCD
(c) Oral contraceptive pills (d) Natural methods
44. In sample registration system, the investigator-supervisor conducts and independent survey every:
- (a) 6 months (b) 1 year
(c) 5 years (d) 10 years
45. WHO classifies mental retardation into four categories: Mild, moderate, severe and profound. IQ range in moderate MR is:
- (a) 35-49 (b) 20-34
(c) 50-69 (d) 70-90
46. Principles of Primary Health Care includes all, except:
- (a) Intersectoral coordination (b) Appropriate technology
(c) Mainly coordinated by doctors (d) Community participation
47. Which of the following statements is true about BCG vaccination?
- (a) Distilled water is used as a diluent for BCG vaccine
(b) The site for injection should be cleaned thoroughly with spirit
(c) Mantoux test becomes positive after, 48 hours of vaccination
(d) WHO recommends Danish 1331 strain for vaccine production

48. Link worker scheme comes under which National health program:
(a) NTEP (b) NACP
(c) NLEP (d) ICDS
49. Diseases under National Vector Borne Disease Control Program are:
(a) Malaria, Filariasis, KFD (b) Malaria, Filariasis, Epidemic Typhus
(c) Malaria, Dengue, Kala-azar (d) Malaria, Chikungunya, KFD
50. A 1-year-old child is brought with symptoms suggesting pneumonia. One examination chest indrawing is present. No other severe abnormality found from history and examination. The child is classified to have:
(a) Very severe pneumonia (b) Severe pneumonia
(c) Pneumonia (d) Cough and cold
51. Which one is NOT a feature of antemortem drowning:
(a) Leathery froth around nose and mouth (b) Washerwoman's hands and feet
(c) Water in stomach (d) Cadaveric spasm
52. Lichtenberg's flowers are seen in:
(a) Lightning injuries (b) Flame burns
(c) Strangulation (d) Starvation
53. After death, marbling of skin develops within:
(a) 6 to 12hrs (b) 12 to 24hrs
(c) 24 to 36 hrs (d) > 72hrs
54. Exception to take informed consent are all EXCEPT:
(a) Emergency (b) Prisoners
(c) Medicolegal autopsy (d) Examination of Rape victim
55. Which of the following is a spinal poison?
(a) Strychnine (b) Aconite
(c) Ethanol (d) Carbon monoxide
56. First permanent tooth to appear in human:
(a) 1st molar (b) Central incisor
(c) Lateral incisor (d) Canine
57. In hanging the ligature mark is directed:
(a) Transverse (b) Vertical
(c) Oblique (d) Mixed
58. In stab injury, what is the greatest dimension?
(a) Length of wound (b) Breadth of wound
(c) Depth of wound (d) All are equal
59. Lucid interval is seen in:
(a) Firearm injury (b) Alcohol intoxication
(c) Burn injury (d) Head injury
60. Surgical alteration of gunshot wounds is:
(a) Kennedy phenomenon (b) Rayalaseema phenomenon
(c) Internal ricocheting phenomenon (d) Billiard ball phenomenon
61. The fingerprint pattern may be impaired permanently in cases of:
(a) Eczema (b) Scalds
(c) Scabies (d) Leprosy

62. 'Le facie' sympathetique is seen in:
(a) Road traffic accident (b) Hanging
(c) Strangulation (d) Myocardial infarction
63. Last organ to putrefy:
(a) Kidney (b) Brain
(c) Liver (d) Prostate
64. Conduct money is paid to witness with summons from:
(a) High court (b) Civil court
(c) Criminal court (d) Sub- Magistrate
65. In case of death in Police custody, the inquest is done by:
(a) Police (b) Magistrate
(c) Panchayat (d) District Attorney
66. Unnatural sexual offences:
(a) Rape (b) Incest
(c) Sodomy (d) Adultery
67. Plumbism is caused by:
(a) Lead Poisoning (b) Mercury Poisoning
(c) Arsenic Poisoning (d) Copper Poisoning
68. Best method for identification of a person is:
(a) Anthropometry (b) DNA Analysis
(c) Dactylography (d) Personal appearance after death
69. Gastric lavage is contraindicated in all except
(a) HCl (b) H_2SO_4
(c) Carbolic acid (d) Nitric acid
70. First affected in rigor mortis:
(a) Eyelids (b) Myocardium
(c) Jaw (d) Neck
71. Bevelling of inner table of skull is found in:
(a) Fall from height (b) Infanticide
(c) Firearm entry wound (d) Firearm exit wound
72. 'Fracture-ala signature' is:
(a) Gutter Fracture (b) Ring fracture at foramen magnum
(c) Sutural separation (d) Depressed fracture of skull
73. Lynching is a form of:
(a) Throttling (b) Judicial hanging
(c) Homicidal hanging (d) Sexual asphyxia
74. Rigor mortis can be simulated by:
(a) Algor mortis (b) Adipocere
(c) Livor mortis (d) Cadaveric spasm
75. The following person is not required to take an oath:
(a) Priest (b) Judge
(c) Child below 12 years (d) All of these

76. $\frac{1}{4} : \frac{1}{8} :: \frac{1}{3} : ?$
- (a) $\frac{1}{9}$ (b) $\frac{1}{6}$
(c) $\frac{1}{4}$ (d) $\frac{2}{6}$
77. 12 : 144
- (a) 22 : 464 (b) 20 : 400
(c) 15 : 135 (d) 10 : 140
78. Bird : Fly :: Snake : ?
- (a) Hole (b) Fly
(c) Bark (d) Crawl
79. Mary is taller than June and Lucy is taller than Daisy. If Lucy is taller than Mary, who is the tallest?
- (a) June (b) Lucy
(c) Mary (d) Daisy
80. Four books are kept on each other, D is above A, C is below B and A is above B. Which is at the top?
- (a) A (b) B
(c) C (d) D
81. Seven members of a club shake hands with each other once. How many handshakes occurred altogether?
- (a) 6 (b) 21
(c) 13 (d) 49
82. If $25 \times 35 = 78$, then $45 \times 52 = ?$
- (a) 2001 (b) 97
(c) 106 (d) 710
83. If the following numbers are written in ascending order then what will be the middle digit of the middle term?
- 823, 889, 695, 759, 813, 885, 789
- (a) 1 (b) 6
(c) 5 (d) 3
84. If A stands for +, B stands for -, C stands for \times , then what is the value of $(5 C 4) A (10 C 4) B 6$?
- (a) 56 (b) 44
(c) 54 (d) 46
85. If 'pen' is 'table', 'table' is 'fan', 'fan' is 'chair' and 'chair' is 'roof', on which of the following will a person sit?
- (a) Fan (b) Chair
(c) Roof (d) Table
86. If X is the sister of the daughter of Y, how is X related to Y?
- (a) Sister (b) Daughter
(c) Aunt (d) Cousin
87. Every leap year comes after four years. 2012 is the third leap year of the century. In which year is the 19th leap year of this century?
- (a) 2036 (b) 2084
(c) 2068 (d) 2076

88. If $x = 4$ and if $y = 1$, then $2x + y = ?$
(a) Odd number greater than 7 (b) Even number less than 10
(c) Even number (d) Odd number less than 7
89. All apples are fruits. All fruits grow on trees. Therefore...
(a) all apples grow on trees. (b) some apples grow on trees.
(c) most apples grow on trees. (d) all apples do not grow on trees.
90. If the age of a person in India is above 18 years, he/she can cast the vote. Sunil cast the vote. Which conclusion is correct?
(a) Sunil is the member of Congress party (b) Sunil's age is above 18 years
(c) Sunil is under 18 years of age (d) Both (a) & (c)
91. All dancers are thin and tall. Jenny is a dancer. Therefore...
(a) some dancers are thin and tall. (b) Jenny is thin and tall.
(c) all dancers are thin and tall. (d) Jenny is not thin and tall.
92. Identify the next number in the series. 1, 4, 9, 16, 25, _____
(a) 49 (b) 36
(c) 64 (d) 35
93. Identify the next number in the series. 14, 21, 28, 35, _____
(a) 39 (b) 44
(c) 42 (d) 48
94. Identify the next letters in the series. BCA, EFD, HIG, _____
(a) KJL (b) LKJ
(c) LKL (d) KLJ
95. Identify the next letters in the series. KW, MU, OS, QQ, _____
(a) ZN (b) SO
(c) YM (d) ZM
96. The sentence 'He is an eternal ray of sunshine' is an example of a/an
(a) simile (b) metaphor
(c) irony (d) personification

Directions (Question Nos. 97 - 100) : Choose the correct idiom from the list given below to complete the sentences.

97. This was _____ of his loyalty to the company.
(a) the main test (b) the acid test
(c) the absolute test (d) the ultimate test
98. Don't _____, come to the point.
(a) talk loudly (b) bolt from the blue
(c) beat about the bush (d) hang someone to dry
99. He is not the _____ that he makes out to be.
(a) character (b) knight in shining armour
(c) veteran (d) brownie point
100. If you do not wear your seatbelt, you will not _____ after an accident.
(a) be above board (b) be in the same boat
(c) live to tell the tale (d) blow hot and cold