## **MIZORAM PUBLIC SERVICE COMMISSION**

# **TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF** GRADE-III OF MIZORAM HEALTH SERVICE (GDMO SUB-CADRE) UNDER HEALTH & FAMILY WELFARE DEPARTMENT, GOVERNMENT OF MIZORAM. OCTOBER, 2022

### **TECHNICAL SUBJECT PAPER - III**

Time Allowed : 2 hours

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

1. In RNTCP, the schedule for sputum examination for category I patients is:

- (a) 2, 3 and 5 months (b) 2, 4 and 6 months
  - (c) 1, 3 and 5 months

#### 2. Integrated Management of Neonatal and Childhood Illness (IMNCI) includes all except:

- (a) Malaria
- (c) Diarrhoea

**3.** Acute flaccid paralysis is reported in a child aged:

- (a) 0-3 years (b) 0-5 years
- (c) 0-15 years (d) 0-25 years

4. Under IPHS norms, a PHC in a hilly area should cater to a population of :

- (b) 20,000 (a) 10,000
- (c) 30,000 (d) 40,000

5. Under National Program for Control of Blindness, District blindness control society is headed by:

- (a) District program manager
- (c) District collector (d) District health officer
- 6. Sentinel surveillance for HIV under National AIDS Control program is used for all except:
  - (a) Estimation of total infection in community (b) Estimation of total cases in hospitals
  - (c) Estimation of trend of the disease (d) Classification of districts
- 7. All are true of Midday School Meal Programme except:
  - (a) Should supply 1/2 daily protein and 1/3rd or daily calories
  - (b) Is a substitute for regular food
  - (c) Locally available foods are used
  - (d) Cheap and easy to prepare

#### 8. Under National Health Mission, lowest level at which Health Action Plan is prepared is:

- (a) State level (b) District Level
- (c) Sub-centre Level (d) Village Level
- **9.** ASHA worker works for population:
  - (a) 3000 (b) 1000
  - (c) 5000 (d) 400

- Full Marks: 200
- (d) 2, 5 and 7 months
  - (b) Respiratory infections
  - (d) Tuberculosis
- - - (b) District eye surgeon

<b>10.</b> The dose of Vit-A supplement administered programme" is:	in "Prevention of nutritional blindness in children
(a) 25,000 IU/ml	(b) 1 lakh IU/ml
(c) 3 lakh IU/ml	(d) 5 lakh IU/ml
11. James Lind is known for:	
(a) Germ theory of disease	(b) Multifactorial causation of disease
(c) Prevention of scurvy by citrus fruits	(d) Web of causation
12. Which of the following is an Indicator of Morta	lity?
(a) Life Expectancy	(b) Notification Rate
(c) DALY	(d) Bed turn-over ratio
<b>13.</b> Natural history of disease is best studied by:	
(a) Cross sectional study	(b) RCT
(c) Case-control study	(d) Cohort study
14. Epidemiological triad contain all except:	
(a) Agent	(b) Manpower
(c) Host	(d) Environment
15. Pap smear test for detection of carcinoma of ce	ervix is which level of prevention?
(a) Primordial	(b) Primary
(c) Secondary	(d) Tertiary
16. Incidence of a disease in a population of 30,00	00 and 300 new cases is:
(a) 0.1 per 1000	(b) 10 per 1000
(c) 100 per 1000	(d) 1 per 1000
17. Time interval between receipt of infection by a h	nost and maximum infectivity of that host is known as:
(a) Generation time	(b) Incubation period
(c) Serial interval	(d) Secondary attack rate
18. All of the following are experimental studies ex	cept:
(a) Randomised Control Trial	(b) Field trial
(c) Case Series	(d) Community trial
19. Relative Risk can be determined by which type	of epidemiological study?
(a) Case-control study	(b) Ecological studies
(c) Cohort study	(d) Cross-sectional study
20. In a randomized controlled trial, the essential p	urpose of randomization is:
(a) To produce double blinding	(b) To decrease the follow- up period
(c) To decrease the sample size	(d) To eliminate the selection bias
<b>21.</b> Monkey Pox virus is:	
(a) An enveloped double-stranded RNA vir	us (b) An enveloped single-stranded DNA virus
(c) An enveloped double-stranded DNA vir	us (d) An enveloped single-stranded RNA virus
<b>22.</b> Bitot's spots is seen in:	
(a) Vitamin D deficiency	(b) Vitamin E deficiency
(c) Vitamin A deficiency	(d) Vitamin C deficiency
<b>23.</b> BCG is:	
(a) Live attenuated vaccine	(b) Killed vaccine
(c) Live vaccine	(d) Hybrid vaccine

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24. Incidence	of TB in a community measured by:		
(a) Tub	erculin test +	(b)	Sputum culture
(c) Mai	ntoux test +	(d)	Sputum smear +
25. Which of	the following has the highest tendency to	progi	ess into chronic state?
(a) Hep	patitis A	(b)	Hepatitis B
(c) Hep	patitis C	(d)	Hepatitis D
26. Cysticerco	oses Cellulosae is caused by infection with	ı:	
(a) Taer	nia saginata	(b)	Taenia solium
(c) Ech	inococcus granulosus	(d)	Diphyllobothrium latum
<b>27.</b> Chandler	's index is used for:		
(a) Ank	xylostoma duodenale	(b)	Ascaris lumbricoides
(c) Stro	ongyloides	(d)	Trichuris trichiura
28. Which of	the following is known as Tiger Mosquito	?	
(a) And	pheles mosquito	(b)	Aedes mosquito
(c) Mai	nsonoides mosquito	(d)	Culex mosquito
<b>29.</b> Class II ex	posure to rabies in animal bites includes the	he fo	llowing:
(a) Scra	atches with oozing of blood	(b)	Licks on a fresh wound
(c) Scra	atches without oozing of blood	(d)	Bites from wild animals
<b>30.</b> Which of	the following is not true of Measles?		
(a) Hig	h secondary attack rate	(b)	Only one strain causes infection
(c) Not	infectious in pro-dromal stage	(d)	Infection confers lifelong immunity
<b>31.</b> A patient	is called obese as per WHO classification	ifBl	MI is:
(a) $> 20$	0	(b)	> 25
(c) $> 30$	0	(d)	> 40
<b>32.</b> All of the	following are non-modifiable risk factors	for D	iabetes Mellitus except is:
(a) Ethr	•		Age
(c) Sex		(d)	Dietary habits
<b>33.</b> All of the	following are classified as Occupational c	ance	rs except:
(a) Skin	n cancer	~ /	Breast cancer
(c) Lun	g cancer	(d)	Bladder cancer
34. The most	common cause of blindness in India is:		
(a) Cata		~ /	Trachoma
(c) Ref	ractive errors	(d)	Vitamin A deficiency
<b>35.</b> 'Rule of H	Ialves' is associated with:		
(a) CH			Hypertension
(c) Blin	Idness	(d)	Accidents and Injuries
36. Glycosyla	ted haemoglobin reflects the mean blood g	gluco	se level of previous:
(a) 15 c	•	(b)	1 month
(c) $3 \text{ m}$	onths	(d)	6 months
<b>37.</b> Most com	mon cause of stroke in India is:		
	ebral thrombosis	(b)	
(c) Cer	ebral hemorrhage	(d)	Subarachnoid hemorrhage

(b) Cervical cap

- **50.** All of the following are nominal data except:
  - (a) Gender
  - (c) Position in class
- (c) Oral contraceptive pills (d) Diaphragm **39.** DASH diet is advised to patients with: (a) Diabetes mellitus (b) Hypertension (d) COPD (c) Pregnancy (b) Water-washed disease (d) Water-related disease (b) Dust (d) Lead particles (b) Garbage (d) Sewage (b) Water vapour (d) Carbon dioxide (b) Vitamin B1 (d) Vitamin B12 (b) 150 (d) 450 (a) Mean + 1 Standard Deviation (b) Mean + 2 Standard Deviation (c) Mean + 2.5 Standard Deviation (d) Mean + 3 Standard Deviation **49.** All of the following are micronutrient deficiency disorders except:
- **40.** The current national programme for control of iodine deficiency disorder is:
  - (a) National Goitre Control Programme

(a) Condoms

(b) National Iodine Deficiency Management Programme

38. All of the following are barrier methods of contraception except:

- (c) National Program to Control Iodine Disorders
- (d) National Iodine Deficiency Disorder Control Programme
- **41.** Scabies, an infection of the skin caused by Sarcoptes scabiei, is an example of:
  - (a) Water-borne disease
  - (c) Water-based disease
- 42. For air pollution, the best indicator used in India is:
  - (a) SO2
  - (c) CO2
- **43.** Waste water generated from kitchen is called:
  - (a) Refuse
  - (c) Sullage
- 44. Criteria for "Problem village" include all except:
  - (a) Where no water source in a distance of 1.6 km from community
  - (b) Water is more than depth of 15 meter
  - (c) There is excess of Na+, K+, F+ salts
  - (d) Risk of Guinea worm infection
- 45. Which of the following is not a major greenhouse gas?
  - (a) Ozone (c) Methane
- 46. Beri-beri is caused due to deficiency of?
  - (a) Vitamin K
  - (c) Vitamin C

47. The recommended daily extra calorie requirement during pregnancy is:

- (a) 50
- (c) 350

48. Recommended Dietary Allowance (RDA) is the level of dietary intake equal to:

- (a) Iron deficiency anemia (b) Pellagra
  - (d) Protein Energy Malnutrition (c) Beri-beri
    - - (b) Country
      - (d) Ethnicity

<b>51.</b> Corpus delicti means:	
(a) Proof of occurrence of crime	(b) Decomposed body
(c) Identification of dead person	(d) None
<b>52.</b> Barr body is not seen in:	
(a) Turner syndrome	(b) Klinefelter syndrome
(c) Down's syndrome	(d) Marfan's syndrome
<b>53.</b> The most reliable dental change used in Gustafson	n's method for age estimation is:
(a) Attrition	(b) Cementum
(c) Secondary dentin deposition	(d) Transparency of root
<b>54.</b> Two identical twins will not have same:	
(a) Fingerprints	(b) Iris color
(c) DNA	(d) Blood group
<b>55.</b> Suspended animation may be seen:	
(a) Strangulation	(b) Hanging
(c) Drowning	(d) Burn
<b>56.</b> True about rigor mortis are all, except:	
(a) Seen immediately after death	(b) It last 18–36 h in summer
(c) It disappears in the sequence as it appears	(d) It last 24–48 h in winter
<b>57.</b> Casper's dictum for rate of decomposition in air:	water: buried bodies is:
(a) 8:4:1	(b) 4:2:1
(c) 1:2:4	(d) 1:4:8
<b>58.</b> Dribbling of saliva is feature of:	
(a) Antemortem hanging	(b) Strangulation
(c) Postmortem hanging	(d) Drowning
<b>59.</b> Best indicator of antemortem drowning is:	
(a) Froth in nostrils	(b) Cutis anserina
(c) Washerwoman's hand	(d) Water in stomach
<b>60.</b> Bansdola is a form of strangulation by:	
(a) Ligature	(b) Hands
(c) Wooden sticks	(d) Bend of elbow
61. Sec 44 IPC defines:	
(a) Injury	(b) Hurt
(c) Grievous hurt	(d) Assault
<b>62.</b> Incised looking laceration is seen in all, except:	
(a) Iliac crest	(b) Zygomatic bone
(c) Shin	(d) Chest
63. Tattooing in entry wound of a firearm injury is due	e to:
(a) Burns	(b) Smoke
(c) Gunpowder	(d) Wads
64. Fracture-a-la signature is:	
(a) Gutter fracture	(b) Depressed fracture
(c) Ring fracture	(d) Sutural separation

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- 65. Commonest source of extradural hemorrhage:
  - (a) Middle meningeal artery
  - (c) Charcot's artery
- 66. Lucid interval is classically seen in:
  - (a) Intracerebral hematoma
  - (c) Chronic subdural hematoma
- 67. According to 'rule of 9', perineum burns constitute:
  - (a) 1% burns
  - (c) 18% burns
- **68.** Burns in children assessed by:
  - (a) Rule of nine
  - (c) Palmer surface method
- 69. Sparrow foot marks are associated with which type of injury:
  - (a) Motor cyclist's fracture
  - (c) Steering wheel impact
- 70. Grievous injury includes all, except:
  - (a) Emasculation
  - (c) Permanent disfigurement
- 71. Rape is defined under:
  - (a) Sec. 320 IPC
  - (c) Sec. 376 IPC
- 72. Gastric lavage is contraindicated in the following:
  - (a) Barbiturate poisoning
  - (c) Paracetamol poisoning
- 73. Cholera presents with symptoms mimicking:
  - (a) Arsenic poisoning
  - (c) Barbiturate poisoning
- 74. Cobras belong to:
  - (a) Viperidae
  - (c) Colubriadae
- **75.** Opium is derived from:
  - (a) Leaf
  - (c) Poppy seed

- (b) Basilar artery
- (d) Middle cerebral artery
- (b) Acute subdural hematoma
- (d) Extradural hematoma
- (b) 9% burns
- (d) 27% burns
- (b) Lund and Browder
- (d) Hasse's rule
- - (b) Under-running or tail gating
  - (d) Wind screen impact
  - (b) Loss of 15 days work
  - (d) Fracture of bones
  - (b) Sec. 375 IPC
  - (d) Sec. 351 IPC
  - (b) Kerosene poisoning
  - (d) Carbolic acid
  - (b) Dhatura poisoning
  - (d) Morphine poisoning
  - (b) Elapidae
  - (d) Crotalidae
  - (b) Root
  - (d) Unripe capsule
- 76. There are two taps in a tank. One tap fills that tank in 10 hours and the other empties it in 8 hours. If both the taps are opened simultaneously, in how many hours will the tank be completely filled?
  - (a) 10 hours
  - (c) 18 hours
- 77. Antonym of the word 'favourable'
  - (a) Unequal (b) Opposite
  - (c) Unfavourable

78. When two walls of a square shaped room meet together, then the angle made by the walls will be:

- (a) 30°
- (c) 100° (d) 105°

- (b) 13 hours
- (d) will never fill up completely
- (d) Infavourable

(b) 90°

- **79.** What will be the ratio of 90cm to 1.5m?
  - (a) 3/2(b) 3/5
  - (c) 3/6 (d) 3/8
- 80. The Yamuna River is smaller than Beas but longer than Satluj River. The Ganga River is longer than Beas River. Which is the shortest river?
  - (a) Satluj River (b) Ganga River
  - (d) Yamuna River (c) Beas River
- 81. If the first day of the year is Friday, what will be the last day of that year?
  - (a) Monday (b) Friday
  - (c) Sunday (d) Tuesday

Direction (Questions No. 82 - 85) : Examine the statements given below each question on the basis of whatever is given and asked in the question, and not in reference to your personal opinion or reality.

82. Kavita's percentage of marks was higher than Seema but lower than Lata. Meena's percentage was higher than Rachna but lower than Seema. Whose percentage is the highest?

- (a) Kavita (b) Seema
- (d) Meena (c) Lata

83. Find a pair of statements from the below four, in which both the statements cannot be true simultaneously, but can both be false.

- 1. All men are intelligent. 2. Some men are not intelligent.
- 3. Some men are intelligent.
- (b) 2 and 3 (a) 1 and 2
- (c) 1 and 4 (d) 3 and 4
- 84. Assuming that the pens can be of only one colour, which is either yellow or green, which of the two statements from the above can be true at a time?
  - 1. All pens are yellow. 2. No pen is yellow.
  - 3. Some pens are green.
  - (a) 1 and 2
  - (c) 3 and 4

4. No man is intelligent.

- 4. No pen is green.
- (b) 2 and 3
- (d) 1 and 4

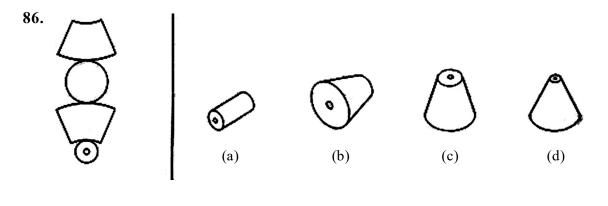
85. Assuming that the pens can be of only one colour, which is either yellow or green, if statement 2 is false, which of the remaining statements will be proved true in indicating the colour of the pens?

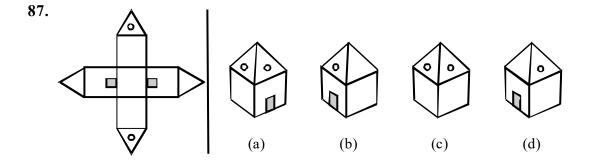
- 1. All pens are yellow.
- 3. Some pens are green.

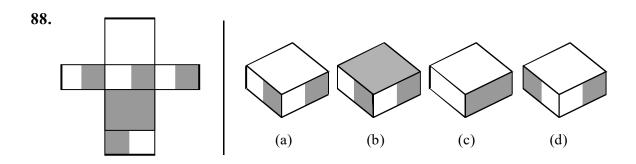
- 2. No pen is yellow.
- 4. No pen is green.
- (b) 3
- (d) none of the above

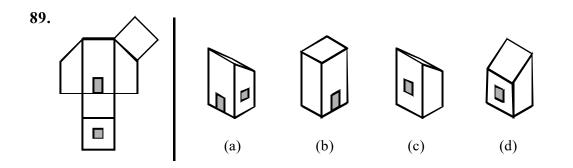
- (a) 1
- (c) 4

Direction (Questions No. 86 - 89) : The next few questions consist of patterns which can be folded into figures. For each pattern, five figures are shown. You are to decide which of these figures can be made from the pattern shown. The pattern always shows the outside of the figure.

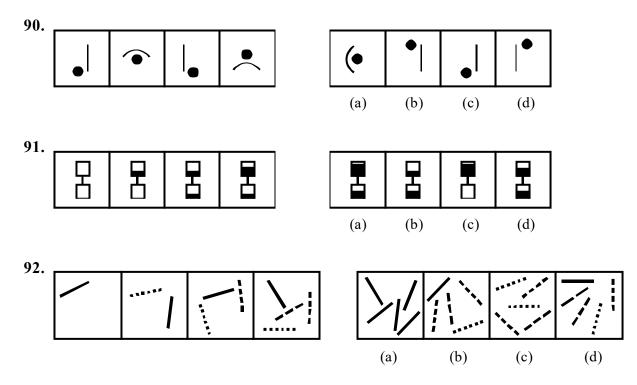








Direction (Questions No. 90 - 92) : In this test, you will see rows of designs or figures. The first row has four designs called Problem figures. These are followed by five designs called Answer figures. The four problem figures make a series, with the fifth figure missing. You have to choose the correct missing fifth figure for the Problem figures from among the Answer figures and mark it on your answer sheet.



Direction (Questions No. 93 - 96) : Choose the correct word which will fill the blanks so that the sentences will be true and sensible.

<b>93.</b> War is to pacifist as religion is to	•	
(a) devout	(b)	sacred
(c) atheist	(d)	minister
94 is to land as knot is to sea.		
(a) desert	(b)	mile
(c) acre	(d)	farm
<b>95.</b> is to bird as shedding is to dog.		
(a) calling	(b)	flying
(c) migrating	(d)	moulting
<b>96.</b> Coloured is to bleached as flushed is to	·	
(a) blushed	(b)	drained
(c) wan	(d)	truffle
<b>97.</b> Add		
2ft. 3in.		
28ft. 11 ½ in.		
17ft. 5 in.		
4 ½ in.		
(a) 49ft.	(b)	48ft. 2in.
(c) 47ft. 24in.	(d)	48ft.

<b>98.</b> 25 =	? % of 125				
(a)	1/5	(b)	5		
(c)	20	(d)	31.25		
<b>99.</b> 4/? =	?/100 What one number can replace both que	stior	n marks?		
(a)	1	(b)	20		
(c)	25	(d)	200		
<b>100.</b> Divide 2.25 by .75					
(a)	.0003	(b)	.03		
(c)	.3	(d)	3		

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