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 - I

TECHNICAL SOD	LCI	
Time Allowed: 2 hours		Full Marks : 200
All questions carry equ Attempt all q		
1. The mechanism that permits Ig to be synthesized	in eith	er a membrane bound or secreted form is:
(a) Allelic expression	(b)	Differential RNA processing
(c) Codominant expression	(d)	Class switch recombination
2. Which of the following is not involved in the prod	uction	of IgA antibodies:
(a) Peyer's patches	(b)	Macrophages
(c) Tuft cells	(d)	Bcells
3. Functional unit of kidney:		
(a) Hilum	(b)	Neurons
(c) Nephron	(d)	Medulla
4. Most likely organism causing urinary tract infection	n:	
(a) Pseudomonas	(b)	E.Coli
(c) Klebsiella	(d)	Streptococcal faecalis
5. Most common cause of CKD:		
(a) Obesity	(b)	Diabetes mellitus
(c) Polycystic kidney disease	(d)	Analgesic nephropathy
6. Mechanism of anemia in CKD:		
(a) Deficiency of vitamin B12	(b)	Deficiency of erythropoietin
(c) Deficiency of vitamin K	(d)	Low protein intake
7. Following complement component is involved in o	opsonis	sation:
(a) C3b	(b)	C5b
(c) C3a	(d)	C5a
8. Following is a neprilysin inhibitor:		
(a) Captopril	(b)	Nesiritide
(c) Perindopril	(d)	Sacubitril
9. C3 nephritic factor is an autoantibody associated	with:	
(a) Type 1 MPGN	(b)	Type 2 MPGN
(c) Type 3 MPGN	(d)	IgA nephropathy
10. Brain Natriuretic Peptide (BNP) is primarily synth	nesized	in:

(b) Cardiac ventricles

 $(d) \ \ Pericytes in the tubulo interstitial compartment$

(a) Choroid plexus of ventricles

(c) Atrial cardiomyocytes

11.	Mark	xers of AKI:		
	(a)	Urinary IL – 18	(b)	Urinary MCP – 1
	(c)	ACR	(d)	Erythropoietin
12.	Horn	none released by posterior pituitary:		
	(a)	Oxytocin	(b)	TSH
	(c)	LH	(d)	Prolactin
13.	Sleep	wake cycle of the body is regulated by:		
	\ /	Prolactin	` /	Cortisol
	(c)	Melatonin	(d)	Progesterone
14.		master gland of the endocrine system is:		
		Bartholin gland	(b)	Pituitary gland
	(c)	Thyroid gland	(d)	Adrenal gland
15.		etes Insipidius is due to deficiency of:		
	` ′	Aldosterone	(b)	Vasopressin
	(c)	Insulin	(d)	Progesterone
16.		hemical agent is produced by a cell and if the ag	gent a	acts on the same cell, the effect is termed as:
	` ′	Endocrine effect	` /	Paracrine effect
	(c)	Autocrine effect	(d)	Neural effect
17.	Grov	vth hormone is also called as:		
	` ′	Somatostatin	(b)	Somatomedin
	(c)	Somatocrinin	(d)	Somatotropin
18.	Stora	age form of thyroid hormone is:		
	(a)	T3	(b)	T4
	(c)	Thyroglobulin	(d)	ACTH
19.		year old female complains of swelling and te		1 1 0
		t of both hands with stiffness in the hands last e is no history of alopecia, photosensitivity,	_	_
		nosis in this patient?	KIUIIV	by disease of fash. What is the most fixery
	_	Polymyalgia rheumatica	(b)	Osteoarthritis
	` ′	Rheumatoid arthritis	(d)	Gouty arthritis
20.	A 45	year old female, a known case of asthma for the	ne nas	•
-0.		mbness in the left upper and both lower limbs.	-	• •
		palpable purpura over the lower limbs. On inve		
	_	nosis?		
	` ′	SLE	(b)	Polyarteritis nodosa
	(c)	Giant cell arteritis	(d)	EGPA
21.		year old female presents with malar rash exa		•
	•	gia, arthralgia without joint deformity over the		•
		aturia with no history of drug intake prior to the er disease would be :	onse	t of these symptoms. The best screening test
		Anti ds DNA antibody	(b)	Anti nuclear antibody
	` ′	Anti RNP antibody	(d)	Anti histone antibody
22	` ′	B27 is associated with:	(4)	
44.		Rheumatoid arthritis	(b)	SLE
	()	Ankylosing spondylitis	(d)	Systemic sclerosis
	(\mathbf{c})	1 mm yrosing spondynus	(u)	Systemme sererosis

23.	Whic	ch joints are spared in rheumatoid arthritis:		
	(a)	PIP	(b)	DIP
	(c)	MCP	(d)	Wrist
24.	Gottı	on's papules are seen in :		
	(a)	SLE	(b)	Systemic sclerosis
	(c)	Dermatomyositis	(d)	Tuberculosis
25.		owing is a disease that is transmitted genetic	ally a	as an autosomal dominant trait located on
		mosome 4:	(1.)	II
	` ′	Guillain Barre' syndrome	` ′	Huntington's disease
•	. ,	Multiple sclerosis	` ′	Encephalitis
26.		t like facial expressions; slow, shuffling gait; pilor at rest is seen in:	ll – rc	olling movement of hands; stooping posture;
	(a)	Myasthenia gravis	(b)	Stroke
	(c)	Multiple sclerosis	(d)	Parkinson's disease
27.	Dem	yelination of the white matter of the nervous sy	stem	is seen in:
	(a)	Seizure disorder	(b)	Parkinson's disease
	(c)	Spinal cord injury	(d)	Multiple sclerosis
28.	What	t frequency of tremor would you expect in Parl	kinso	on's disease :
	(a)	1Hz	(b)	2Hz
	(c)	5Hz	(d)	7Hz
29.	A les	ion of the occipital lobe causes:		
	(a)	Acalculia	(b)	Astereognosis
	(c)	Constructional apraxia	(d)	Cortical blindness
30.		year old female presents with a 3 months histor sia. The most likely lesion is at the:	y of d	epression, social disinhibition, anosmia and
	(a)	Parietal lobe	(b)	Frontal lobe
	(c)	Temporal lobe	(d)	Occipital lobe
31.	Stora	ige form of iron in the body:		
	(a)	Hemosiderin	(b)	Ferritin
	(c)	Transferrin	(d)	Hemoglobin
32.	Site	of folate absorption is:		
	(a)	Jejunum	(b)	Stomach
	(c)	Ileum	(d)	Caecum
33.	Biocl	hemical etiology of Alzheimer's disease relates	s to:	
	(a)	Acetylcholine	(b)	GABA
	(c)	Epinephrine	(d)	Dopamine
34.	Grow	th phase of hair follicle is:		
	(a)	Anagen	(b)	Catagen
	(c)	Melagen	(d)	Telogen
35.	Most	common blood transfusion reaction is:		
	(a)	Febrile non hemolytic transfusion reaction	(b)	Seizure

(d) Electrolyte imbalance

(c) Transmission of infections

(a) 0.1 gm% (b) 1 gm% (c) 2 gm% (d) 2.2 gm% (e) 2.2 gm% (e) Exercise	36.	One	unit of fresh blood arises Hb% concentration	by:	
37. Blood group system related to McLeod syndrome is: (a) Kcll (c) Duffy (d) Lewis 38. Primary function of hemoglobin is: (a) Store iron (b) Carry oxygen to peripheral tissues (c) Give RBC's their color (d) Transport glucose 39. At what age does the thymus reach its maximal size: (a) During the first year of life (b) Teenage years (puberty) (c) Between 40 and 50 years of age (d) After 70 years of age 40. In order for T cells to respond to the antigen for which they are specific, they need to recognize which of the following: (a) B cells (b) The antigenic epitope displayed by MHC molecules (c) Immunoglobulin (d) Cytokines 41. The Quantiferon test is based on which of the following: (a) The response of macrophages to the antigen (b) The eytokine response of Th1 cells to their specific antigen (c) The inability of macrophages to digest the antigen (d) The interaction of CD4 + T cells and macrophages 42. Bloody diarrhoea with mucus is the symptoms of: (a) Pancreatitis (b) Peptic ulcer disease (c) Ulcerative colitis (d) Paralytic ileus 43. An absence of pigment in the skin is called: (a) Acanthosis nigricans (b) Albinism (c) Melanism (d) Xanthoderma 44. A chronic dermatitis of unknown etiology with a history of allergy is called: (a) Actinic dermatitis (b) Atopic dermatitis (c) Stasis dermatitis (d) Seborrheic dermatitis (e) Stasis dermatitis (f) Keratosis (g) Purine metabolism (h) Ketone metabolism (c) Purine metabolism (d) Pyrimidine metabolism (d) Pyrimidine metabolism (e) Purine metabolism (f) Purine metabolism (g) Purine metabolism (h) Primidine metabolism (h) Pyrimidine metabolism (h) Primidine metabolism (h) Pyrimidine metabolism		(a)	0.1 gm%	(b)	1 gm%
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	46.			(b)	Ketone metabolism
	46.	(a)	Protein metabolism	` '	
(a) Out (b) Kilcullatolu at tillitis		(a) (c)	Protein metabolism Purine metabolism	(d)	Pyrimidine metabolism
(c) Pseudogout (d) Tuberculous arthritis		(a) (c) The a	Protein metabolism Purine metabolism accumulation of calcium pyrophosphate crysta	(d)	Pyrimidine metabolism small joint is:
48. Graves' disease or Basedow's disease is due to:		(a) (c) The a (a)	Protein metabolism Purine metabolism accumulation of calcium pyrophosphate crysta Gout	(d) als in s (b)	Pyrimidine metabolism small joint is : Rheumatoid arthritis
(a) Hyperactivity of adrenal cortex (b) Hypoactivity of thyroid gland	47.	(a) (c) The a (a) (c)	Protein metabolism Purine metabolism accumulation of calcium pyrophosphate crysta Gout Pseudogout	(d) als in s (b)	Pyrimidine metabolism small joint is : Rheumatoid arthritis
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49.	The most commonly identified trigger for Guillai	in Barre'	syndrome is:
	(a) Staphylococcus aureus	(b)	Campylobacter jejuni infection
	(c) Immunisation	(d)	Surgery
50.	A 45 years female complain with repeated bout and pallor, the most probable diagnosis is:	t of abdo	minal pain, severe hypertension, sweating
	(a) Conn's syndrome	(b)	Cushing's syndrome
	(c) Pheochromocytoma	(d)	Thyroid storm
51.	Which of the following statement regarding Zika	virus is	TRUE:
	(a) Transmitted by the bite of culex mosquito	(b)	Associated with bilateral pneumonia and ARDS
	(c) Belong to filovirus group	(d)	Congenital transmission leads to microcephaly
52.	Most common cause of pleural effusion in children	ren is-	
	(a) TB	(b)	Congestive heart failure
	(c) Bacterial pneumonia	(d)	Malignancy
53.	Significant difference of blood pressure in upper	r and low	ver limbs is found in-
	(a) Tetralogy of Fallot	(b)	Kawasaki disease
	(c) PDA	(d)	Coarctation of aorta
54.	Most common pathogen of pneumoniain children	en < 5 ye	ars old is-
	(a) Streptococcus Pneumoniae	(b)	Mycoplasma Pneumoniae
	(c) Group A Streptococcus	(d)	H. Influenza type b
55.	Shakir tape is used for		
	(a) Measurement of height	(b)	Measurement of length of infant
	(c) Measurement of mid-arm circumference	(d)	Measurement of skin pad thickness
56.	Which of the following can a one-year-old can p	perform	
	(a) Jumps	(b)	Drinks from cup
	(c) Speaks one or two words with meaning	(d)	Build tower of 6 blocks
57.	Neonatal period extends upto –		
	(a) 21 days of life	(b)	30 days of life
	(c) 28 days of life	(d)	35 days of life
58.	Birth weight of a child doubles by		
	(a) 2 months	(b)	3 months
	(c) 4 months	(d)	5 months
59.	Recommended duration of exclusive breastfeedi	ing is	
	(a) 5 months	(b)	6 months
	(c) 9 months	(d)	1 year
60.	The MOST common cause of under-5 mortality	in devel	oping world is
	(a) diarrheal disease	` ′	pneumonia
	(c) malaria	(d)	neonatal disease
61.	All the following are recognizable teratogens EX	KCEPT	
	(a) ethanol	(b)	antiepileptic medications
	(c) hypothermia	(d)	mercury
62.	One of the following is FALSE in hemolytic disc	ease of th	ne newborn caused by Rh incompatibility
	(a) infant is Rh Positive	(b)	never occur in first-born infant

(d) can be associated with stillbirth/hydrops

(c) severe anemia can be seen

63.	The t	herapeutic effect of phototherapy depends on	the fo	ollowing factors EXCEPT
	(a)	distance between the lights and the infant	(b)	skin colour
	(c)	surface area of exposed skin	(d)	rate of haemolysis
64.		arch to determine the cause of jaundice should	be ma	ade in all the following conditions EXCEPT
		if it appears in the first 24 hour of life clay coloured stool		
	` '	if jaundice persists after 14 days of life		
		if direct bilirubin fraction is >1 mg/dL at any t	ime	
65		ales, the first visible sign of puberty is		
05.		Testicular enlargement	(b)	Development of pubic hair
		Change in voice	` ′	Increase in penile length
66.	Imm	unization is one of the most beneficial and co	ost-ef	ffective disease prevention measures. As a
		t of effective and safe vaccines, which of the fo		
	` '	smallpox	` /	polio
	()	measles	` /	pertussis
67.		east common clinical feature of typhoid fever i		
	` /	diarrhoea	` ′	abdominal pain
	` /	splenomegaly	()	headache
68.		ares of infants with congenital rubella syndrom		
	` /	deafness	` /	cataracts
	. ,	limb deformities	` ,	patent ductus arteriosus
69.	_	genital heart disease causing cyanosis without re	-	·
		tricuspid atresia	\ /	aortic stenosis
	(c)	pulmonary atresia	(d)	tetralogy of Fallot
70.	One	of the following is a sign of right-sided heart fa	ilure	
	` '	edema	(b)	orthopnea
	(c)	wheezing	(d)	pulmonary edema
71.	Vitar	nin K-dependent clotting factors include all the	follo	owing EXCEPT
	()	factor IX	(b)	factor II
	(c)	factor VII	(d)	factor I
72.	Ofth	e following, the LEAST likely feature of acute	imm	une thrombocytopenia (ITP) is
	(a)	a preceding viral infection	(b)	isolated splenomegaly
	(c)	isolated thrombocytopenia	(d)	mucocutaneous bleeding
73.	Indic	ations for dialysis in acute kidney injury includ	le all t	he following EXCEPT
	(a)	anuria/oliguria	(b)	persistent hypercalcemia
	(c)	severe metabolic acidosis	(d)	volume overload
74.	All th	ne following are risk factors for urinary tract in	fectio	on EXCEPT
	(a)	poor toilet training	(b)	pinworm infestation
	(c)	male gender	(d)	voiding dysfunction
75.	Preco	ocious puberty in girls is defined by the onset of	secoi	ndary sexual characteristics before the age of
	(a)	7 yr	(b)	8 yr
	(c)	9 yr	(d)	10 yr

76.	The MOST severe form of Cerebral Palsy (CP)) is	
	(a) spastic diplegia	(b)	dyskinetic CP
	(c) spastic hemiplegia	(d)	spastic quadriplegia
77.	Risk factors for bacterial meningitis are all EXC	EPT:	
	(a) liver dysfunction	(b)	overcrowding
	(c) poor socio-economic condition	(d)	skull fracture
78.	According to IMNCI, which type of plan would classified as having severe dehydration?	l you foll	ow for the management of a child who was
	(a) Plan A	(b)	Plan B
	(c) Plan C	(d)	Plan D
79.	A child aged 2 years is considered to have fast b	oreathing	g if he has a respiratory rate of:
	(a) 60 bpm or more	(b)	50 bpm or more
	(c) 40 bpm or more	(d)	All of the above
80.	According to IMNCI, ALL are signs of severe d	lehydrati	on EXCEPT:
	(a) Drinks eagerly	(b)	Sunken eyes
	(c) Skin pinch goes back very slowly	(d)	Lethargic
81.	In routine worm treatment, every child should be	given Al	LBENDAZOLE/MEBENDAZOLE every
	(a) 2 months from the age of one year	(b)	9 months from the age of one year
	(c) 9 weeks from the age of one year	(d)	6 months from the age of one year
82.	All of the following options are signs of measles	EXCEP'	T:
	(a) Generalized rash	(b)	Stiffneck
	(c) Cough or runny nose	(d)	Koplik spots
83.	General danger signs in IMNCI includes all EXO	CEPT:	
	(a) Vomits everything	(b)	Convulsion
	(c) Unable to sleep	(d)	Unable to drink and breastfeed
84.	A 4 months old infant is not able to breastfeed at as (as per IMNCI):	nd chest	indrawing is present. This can be classified
	(a) Pneumonia	(b)	Severe Pneumonia
	(c) No Pneumonia (cold or cough)	(d)	Mild Pneumonia
85.	Most common type of cerebral palsy associated	with pre	maturity is:
	(a) spastic hemiplegia	(b)	spastic quadriplegia
	(c) extrapyramidal CP	(d)	spastic diplegia
86.	All of the following diseases are covered under	'Mission	Indradhanush' Program EXCEPT:
	(a) JE	(b)	Hepatitis B
	(c) Whooping cough	(d)	Diphtheria
87.	Which of the following vaccines is most sensitiv	e to heat:	:
	(a) OPV	(b)	BCG
	(c) DPT	(d)	Measles
88.	Incorrect match is:		
	(a) Measles – Edmonston Zagreb	(b)	Mumps – Jeryl Lynn strain

(d) OPV - Salk

(c) Rubella – RA 27/3

89.	Weig	tht for height less than -3SD in growth chart in	dicate	es
	(a)	Underweight	(b)	Mild malnutrition
	(c)	Moderate malnutrition	(d)	Severe malnutrition
90.	Head	holding is achieved by a normally developing	child	lat:
	(a)	3 months	(b)	2 months
	(c)	5 months	(d)	6 months
91.	Most	common acyanotic congenital heart disease:		
	(a)	PDA	(b)	VSD
	(c)	ASD	(d)	Tetralogy of Fallot
92.	Kwa	shiokar is characterised by all features EXCEF	PT:	
	(a)	Baggy pant appearance	(b)	Edema
	(c)	Flag sign hair changes	(d)	Flaky paint dermatosis
93.	Resp	iratory distress syndrome/ Hyaline Membrane	disea	se is a condition commonly associated with:
	(a)	postmaturity	(b)	early onset sepsis
	(c)	meconium aspiration	(d)	prematurity
94.	The	most important indicator of effective ventilation	n who	en resuscitating a newborn baby is:
	(a)	Chest rise	(b)	Spontaneous respiratory efforts
	(c)	Rise in Heart Rate	(d)	Improvement in tone & colour of the baby
95.	Corre	ect latching technique in breastfeeding are ALI	L, EX	CCEPT:
	(a)	Mouth wide open		
	(b)	Areola visible more on the upper side than lo	wer s	side
		Baby's chin touches the breast		
	(d)	Sucking with rest in between		
96.	Edwa	ard syndrome is:		
		Trisomy 18	(b)	Trisomy 21
	(c)	Trisomy 16	(d)	Trisomy 13
97.	A ch	ild is able to draw circle at		
		2 years of age		3 years of age
	(c)	4 years of age	(d)	5 years of age
98.		W and ELBW neonate are defined as:		
	` ′	Birth weight < 2000 grams and < 1000 grams	-	
		Birth weight <1500 grams and < 1000 grams	_	-
	` '	Birth weight < 2000 grams and < 1250 grams	-	•
	(d) Birth weight < 1500 grams and < 1250 grams respectively			
99.		loss in newborn occurs through the following	-	
	\ /	Radiation	` /	Convection
	()	Conduction	(d)	Condensation
100.		E about Cephalohematoma:		
		Does not cross the suture line and has distinct		gın
	(b)	More commonly seen than caput succedance	m	
		Located at the subcutaneous plane Resolves in few days		
	(u)	10001100 III 1011 days		

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