MIZORAM PUBLIC SERVICE COMMISSION

TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF GRADE-III OF MIZORAM HEALTH SERVICE UNDER GDMO SUB-CADRE UNDER HEALTH & FAMILY WELFARE DEPARTMENT, GOVERNMENT OF MIZORAM. MARCH, 2021

TECHNICAL SUB	JECT PAPER - I
Time Allowed: 2 hours	Full Marks : 200
All questions carry eq Attempt all	· ·
1. All of the following are causes of iron deficiency	/ anaemia excent·
(a) Chronic renal failure	(b) Celiac sprue
(c) Hookworms	(d) Carcinoma colon
2. Leucocyte alkaline phosphatise is increased in a	
(a) Polycythemia vera	(b) CML
(c) Myelofibrosis	(d) Myeloid Metaplasia
right leg and right arm for the period of 2 years. It the nervous system shows:	weakness first starting in left arm, then left leg, then He has recent incontinence of urine. Examination of
Muscle tone –increased in both upp	
Muscle power- diminished in both t	••
Reflexes – biceps absent on both si	-
Both knees and ankles –exagerrate	d
Planter – extensor on both sites	
Which following diagnosis is Least likely?	
(a) Cervical myelopathy	
(b) Motor neuron disease	
(c) Multiple sclerosis(d) Chronic inflammatory demyelinating polyr	yymanathy.
	is became pregnant. Which amongst the following is
(a) Azathioprine	(b) Leflunamide
(c) Methotrexate	(d) Cyclophosphamide
	symptoms suggestive of SLE was sent for ANA test
(a) Speckled pattern	(b) Nucleolar pattern
(c) Cytoplasmic pattern	(d) RIM pattern
6. Cryoprecipitate contains all except:	
(a) Factor VIII	(b) Factor IX
(c) Fibrinogen	(d) VWF

7.	antero a peri On the	kumar a 70 yr old hypertensive male was admolateral myocardial infarction. His condition was cardial friction rub and pleuritic chest pain white 7th morning he suddenly developed marked hasion of the jugular veins, accompanied with that developed:	stabl ch po hypo	e till 5 th day of admission, when he developed ersisted despite narcotic and steroid therapy. tension. On examination there was marked	
	(a)	Severe Mitral rehurgitation	(b)	Ventricular septal rupture	
	(c)	Right ventricular infarction	(d)	External cardiac rupture	
8.	Beck	s triad of cardiac tamponade includes all excep	ot:		
	(a)	Hypotension	(b)	Raised JVP	
	(c)	Muffled heart sounds	(d)	Tachycardia	
9.	Whic	h of the following conditions may lead to exuda	ative	pleural effusion?	
	(a)	Cirrhosis	(b)	Nephrotic syndrome	
	(c)	Congestive Heart failure	(d)	Bronchogenic Carcinoma	
10.	Tube	rculous pleural effusion is characterised by all o	of the	following except:	
	(a)	Increased in Adenosine deaminase		-	
	(b)	Hemorrhagic effusions			
	(c)	Increased in mesothelial cells			
	(d)	Pleural fluid LDH more than 60 % that of serv	um L	DH	
11.	While	e inserting a central venous catheter, a patient of	deve]	lops respiratory distress.	
	(a)	Hemothorax	(b)	Pneumothorax	
	(c)	Pleural effusion	(d)	Hypovolumia	
12.	2. Presence of which of the following in the urine is diagnostic of glomerular injury?				
	(a)	Bright red cells	(b)	20% dysmophic RBCS	
	(c)	100 RBC per high power field	(d)	Beta 2 micro globulin	
13.	Centr	ral nervous manifestation in chronic renal failur	re are	result of all of the following except:	
	(a)	Hyperosmolality	(b)	Hypocalcemia	
	(c)	Acidosis	(d)	Hyponatraemia	
14.		n named Mawia has been admitted for Dialysist way to reduce hyperkalemia?	s. He	has a serum K+ of 7.6 meq/L. Which is the	
	(a)	Iv glucose + insulin	(b)	Kayexalate enema	
	(c)	Iv calcium gluconate	(d)	Iv NahCO3	
15.	inves	ing patient came with history anasarca and frothy stigations were done and renal biopsy was adv ations of Renal biopsy except			
	(a)	Adult nephrotic syndrome			
	(b)	SLE with RBC cast with macroalbuminuria			
	(c)	Chronic HTN with decreased in kidney size a	and d	ecreased renal cortex size	
	(d)	Unexplained renal failure creatinine 2mg/dl w	ith rl	oc cast and 2+ albumin	
16.	Osbo	rn j waves is seen in:			
	(a)	Hypothermia	(b)	Hyperkalemia	
	(c)	Hypocalcemia	(d)	Hypokalaemia	

17.	Types of sensation lost on same side in brown sec	quard s	yndrome is:
	(a) Pain	(b)	Touch
	(c) Propioception	(d)	Temperature
18.	Hot cross bun sign on Brain MRI is seen in:		
	(a) Spinocerebellar Ataxia	(b)	Supranuclear palsy
	(c) Wilsons disease	(d)	Multiple system atrophy
19.	Which of the following is used in refractory precu	ırsor B	-cel ALL?
	(a) Pembrolizumab	(b)	Tocilizumab
	(c) Binatumomab	(d)	Vornistat
20.	All of the following statements regarding HbA1c	are coi	rrect, except:
	(a) Gives an estimate of the blood glucose for	last 6-	10 weeks
	(b) Formed by enzymatic glycation of haemoglo	obin	
	(c) Used for diagnosis of diabetes		
	(d) In diabetes mellitus the value is $>6.5\%$		
21.	A 77yr old male patients on Warfarin is presenti What is the next best step?	ng wit	th intracranial hemorrhage and INR is 3-5.
	(a) EACA	(b)	Cryoprecipitate
	(c) Fresh frozen plasma	(d)	Platelet concentrate
22.	According to AHA, BP should be lowered in acut	te ischa	aemic stroke patient when BP is:
	(a) >220/120	(b)	>220/110
	(c) >200/120	(d)	>190/100
23.	Which of the following treatment modality is used	for sm	nall cell carcinoma of lung?
	(a) Lobectomy	(b)	Pneumonectomy
	(c) Chemotherapy+ Radiotherapy	(d)	Pneumonectomy followed by chemotherapy
24.	A 55 years old male presents with tachypnoea an 7.20. Which is the most likely acid base disorder		tal confusion Blood glucose 350mg/dl.pH
	(a) Metabolic alkalosis	(b)	Respiratory acidosis
	(c) Respiratory alkalosis	(d)	Metabolic acidosis
25.	Patient has fatigue and not gaining weight, body proptosis. Investigation will most likely show:	is war	m 0/E the patient has staring looks and B/L
	(a) Low TSH and High T3/T4	(b)	High TSH and High T3
	(c) High TSH low free T3	(d)	Normal TSH and High T3
26.	Which is not a feature of ACTH deficiency?		
	(a) Hyperpigmentation	(b)	Weight loss
	(c) Hyponatraemia	(d)	Hypoglycemia
27.	Test to differentiate between organic and function	al bow	vel disorder is:
	(a) Fecal calprotection	(b)	Stool occult blood
	(c) Fecal elastase	(d)	72hours fecal fat estimation
28.	As per the NCEP-ATP III, which is not included in	n meta	abolic syndrome?
	(a) Hypertriglyceridemia	(b)	High LDL
	(c) Central Obesity	(d)	Hypertension

29.	A 20yr old male presented with chronic constipation, headache and palpitations. On examination he had marfanoid habitus, neuromas of tongue, medullated corneal nerve fibers and nodule of 2×2 cm size in the left lobe of thyroid gland. This patient is a case of:			
		Sporadic medullary carcinoma of thyroid		Familial medullary carcinoma of thyroid
	(c)	MEN IIA	(d)	MEN IIB
30.	Whic	ch of the following statements is true about SIA	DH?	
	(a)	Hypovolemic hyponatraemia	(b)	Euvolemic hyponatraemia
	(c)	Hypervolemic hyponatraemia	(d)	Hypervolemic hypernatraemia
31.	Osteo	oporosis is seen in all except:		
	(a)	Thyrotoxicosis	(b)	Rheumatoid arthritis
	(c)	Hypoparathyroidism	(d)	Steroid therapy
32.		by girl presents with bilateral inguinal masses, to guinal canals. Which karyotype would you exp		
	(a)	46,XX	(b)	46,XY
	(c)	47,XXY	(d)	47,XYY
33.	Whic	ch one of the following is autosomal dominant of	lisor	der?
	` '	Cystic fibrosis		Hereditary spherocytosis
	(c)	Sickle cell anaemia	(d)	G-6-PD deficiency
34.	Fathe group	er has a blood group B; Mother has AB; Chile o:	dren	are not likely to have the following blood
	(a)		(b)	
	(c)	A	(d)	AB
35.		yr old man presented with repeated episodes iled perihilar bronchiectasis. The most likely di		· · · · · · · · · · · · · · · · · ·
	()	Sarcoidosis	` ′	Idiopathic pulmonary fibrosis
	` /	Extrinsic allergic alveolitis	` /	Bronchopulmonary aspergilosis
36.		monest type of renal stone seen in cases of UT		
	()	Oxalate	` '	Triple phosphate
	` /	Urate	` /	Cysteine
37.	•	r old boy presents to the casualty with diarrho nination shows thrombocytes 80,000/cm3. Diag		•
	` '	Hemolytic uremic syndrome	` /	Disseminated intravascular coagulation
	(c)	Haemophilia	(d)	Idiopathic thrombocytopenic purpura
38.	of 5 c	yr old man with history of substance abuse predays duration. The biochemical test revealed a bT/SGPT(AST/ALT) of 1230/900IU/ml. The strand Hbe Ag. The most likely diagnosis is	oiliru erolo	bin of 6.7 mg/dl(conjugated 5.0mg/dl) with
	(a)			
	(b)	Acute hepatitis B infection with high infectivity		
	(c)	Chronic hepatitis B infection with low infective	•	
	(d)	Acute hepatitis B infection with low infectivity	7	

39.	Which of the following is not a precipitating factor fo	r Hep	atic encephalopathy in Chronic liver disease?
	(a) Hypokalemia	(b)	Hyponatraemia
	(c) Hypoxia	(d)	Metabolic acidosis
40.	A 60 yr old woman with diabetes present with pain ankle show destroyed joint with large number of lo		5 5
	(a) Charcot's joint	` /	Clutton's joint
	(c) Osteoarthritis	(d)	Rheumatoid arthritis
41.	A 29 yr old person is known diabetic on oral hypoand never had DKA. His grandfather is diabetic bediagnosis?		•
	(a) MODY	(b)	DM Type 2
	(c) DM Type 1	(d)	Pancreatic diabetes
42.	Most common cause of Adrenal insufficiency in Inc	lia is:	
	(a) Autoimmune	(b)	Surgery
	(c) Steroid withdrawal	(d)	Tuberculosis
43.	A child presents with recurrents episodes of gross	hema	turia for 2 yrs he is likely to have:
	(a) IgA nephropathy	(b)	Wilms tumour
	(c) Henoch scholein purpura	(d)	Neuroblastoma
44.	All are ECG changes in hypokalaemia except:		
	(a) U wave	(b)	ST segment sagging
	(c) T wave flattening or inversion	(d)	QT prolongation
45.	The marker for B lymphocyte is:		
	(a) CD19	(b)	CD68
	(c) CD34	(d)	CD4
46.	The total score in Glasgow coma scale of a conscio	ous pa	atient is:
	(a) 8	(b)	3
	(c) 15	(d)	10
47.	A 45 yr old woman presenting with a history of d progress, can be diagnosed to have:	iplop	ia and dysphagia and worsening as the day
	(a) Thyrotoxicosis	(b)	Myasthenia gravis
	(c) Muscular dystrophy	(d)	Brain tumour
48.	Increased amylase may be seen in all of the following	ng ex	cept:
	(a) Pancreatic pseudocyst	(b)	Appendicitis
	(c) Perforated peptic ulcer	(d)	Ruptured ectopic pregnancy
49.	The following types of glomerulonephritis should r	ot be	treated with prednisolone?
	(a) Minimal change disease	(b)	Membranous nephropathy
	(c) Membranoproliferative	(d)	Post streptococcal
50.	Obstructive sleep apnoea may result in all of the following	llowii	ng except:
	(a) Systemic hypertension	(b)	Pulmonary hypertension
	(c) Cardiac arrhythmias	(d)	Duodenal ulcers

51.	WHO	O definition of Low-birthweight (LBW) newbo	rn?	
	(a)	<2000g	(b)	<1500g
	(c)	<2500g	(d)	<2250g
52.	Prete	erm and post-term neonate are respectively:		
	(a)	Born at <36 weeks and <42 weeks gestation	ı (b)	Born at <37 weeks and >42 weeks gestation
	(c)	Born at <37weeks and >40 week gestations	(d)	Born at <35 weeks and >40 weeks gestation
53.	Prete	erm babies are at increased risk of:		
	(a)	Hypoglycemia	(b)	Hyaline Membrane Disease(HMD)
	(c)	Hyperbilirubinemia	(d)	All of the above
54.	Apga	ar Score assessment includes all, EXCEPT:		
	(a)	Heart Rate	(b)	Colour
	(c)	Respiratory Rate	(d)	Muscle tone
55.	Alla	re true about delayed umbilical cord clamping	in ne	wborn, EXCEPT:
	(a)	Not earlier than 1 minute after birth		
	(b)	Decreases the risk of anemia in infant		
	(c)	Increases iron reserves upto 6 months after b	irth	
	(d)	May increase the risk of PPH in some mothe	rs	
56.	Acco	ording to Baby Friendly Hospital Initiative(BF	FHI),	breastfeeding to a newborn baby should be
	initiat			
	` '	Within 2 hours of birth	(b)	Within 1 hour of birth
	(c)	Only when the baby has hunger cry	(d)	After the baby is taken out of the labour room
57.	Excl	usive breastfeeding is at least till:		
	` '	4 months	(b)	6 months
	(c)	8 months	(d)	10 months
58.	All a	re signs of good attachment of breastfeeding, I	EXCE	EPT:
	(a)	Chin touching breast	(b)	Mouth wide open
	(c)	Upper lip turned outwards	(d)	More areola visible above than below
59 .	Inan	newborn presenting with jaundice, suspected of	fhype	erbilirubinaemia, we should examine:
	(a)	Total and direct bilirubin	()	Total bilirubin
	(c)	Direct bilirubin	(d)	Conjugated bilirubin
60.	Neor	natal jaundice may be considered pathological	in all	EXCEPT :
	(a)	Appearance of jaundice within 24 hours of life	fe	
	(b)	Presence of clinical jaundice beyond 2 week	s of a	ge
	` ′	Clay coloured stool		
	(d)	Rate of rise in total serum bilirubin (TSB) is	<5mg	y/dl per 24 hr
61.		by is born through meconium stained liquor. 'vigorous EXCEPT:	The f	ollowing are taken into account in terming
	(a)	Tone	(b)	Colour
	(c)	Heart Rate	(d)	Respiration
62.	FALS	SE about Kangaroo mother care:		
	(a)	Skin-to-skin contact on the mother's chest	(h)	Other family members cannot carry out KMC

(d) Decreases incidence of neonatal sepsis

(c) Applicable to both preterm & term infants

63.	Congenital cyanotic heart disease includes:	
	(a) Patent Ductus Arteriosus	(b) Atrial Septal defect
	(c) Tetralogy of Fallot	(d) Ventricular Septal Defcet
64.	'Coeur en Sabot' shape of the heart is seen in	:
	(a) Tricuspid atresia	(b) VSD
	(c) TGA	(d) TOF
65.	A child presenting with headache, dizziness, in The probable diagnosis is:	termittent claudication, difference in upper limbs BP.
	(a) ASD	(b) PDA
	(c) TOF	(d) COA
66.	Heart disease most commonly associated with	Rubella:
	(a) PDA	(b) VSD
	(c) ASD	(d) TOF
67.	Major manifestations of Rheumatic fever include	de all of the following, EXCEPT:
	(a) Arthralgia	(b) Carditis
	(c) Chorea	(d) Erythema marginatum
68.	True about cow's milk, all EXCEPT:	
	(a) Cow's milk contain 80% whey protein no	ot casein
	(b) Cow's milk has less carbohydrate than m	nothers milk
	(c) Has more K and Na than infant formula	
	(d) Has more protein than breastmilk	
69.	The protective effect of breastmilk are known	to be associated with:
	(a) IgM antibodies	(b) Lysozyme
	(c) Mast	(d) IgA antibodies
70.	Exclusive breastfeeding may be associated with	h all of the following except:
	(a) Evening colic	(b) Hemolysis due to vitamin K deficiency
	(c) Golden color stool	(d) Prologation of physiological jaundice
71.	Best indicator in growth monitoring of children:	:
	(a) weight	(b) Mid-arm circumference (MAC)
	(c) rate of increase in height &weight	(d) head circumference
72.	Shakir tape is used for measuring which of the	following?
	(a) Measurement of height	(b) Measurement of length of infant
	(c) Measurement of mid arm circumference	(d) Measurement of skin pad thickness
73.	Severe Acute malnutrition is:	
	(a) weight for age <-3SD of the median WH	IO growth reference
	(b) height for age <-3SD of the median WH	O growth reference
	(c) weight for height <-3SD of the median V	WHO growth reference
	(d) mid arm circumference < 12cm	
74.	Neural tube defects can be prevented by:	
	(a) Pyridoxin	(b) Folic acid

(d) Iron

(c) Thiamine

75.	Kwa	shiokar is characterised by all features EXCEF	PT:	
	(a)	Baggy pant appearance	(b)	Edema
	(c)	Flag sign hair changes	(d)	Flaky paint dermatosis
76.	A ne	wborn born to infected Hepatiis B mothers is t	reate	d with:
	(a)	HBV	(b)	HBIG
	(c)	HBV + HBIG	(d)	no specific treatment
77.	Pane	l of tests under Neonatal sepsis screening inclu	ides a	all, EXCEPT:
	(a)	C-Reactive protein	(b)	Platelet counts
	(c)	Immature to total neutrophil count (I/T ratio)	(d)	Absolute neutrophil count (ANC)
78.	Whic	ch of the following is FALSE regarding categor	ries o	f COVID-19 infection in children?
	(a)	Mild infection include children with upper resp chest examination	pirato	ory infection, mild GI symptoms with normal
	(b)	Moderate infection include signs and symptom	ns of	pneumonia
	(c)	Most children have severe manifestation		
	(d)	Severe infection include children with pneum (sp02<94%)	nonia	a with respiratory distress with hypoxaemia
79.	Gene	eral danger signs in IMNCI includes all EXCER	PT:	
	(a)	Refuses to drink or breastfeed	(b)	Vomits everything
	(c)	Child is lethargic or unconcious	(d)	Child had convulsion or is convulsing
80.	Allo	f the following are features of Downs syndrom	e EX	CEPT:
	(a)	Brushfield's spot in the iris	(b)	Simian crease
	(c)	Clynodactyly	(d)	Hypertonicity
81.	All a	re suggestive of Possible Serious bacterial infec	ction	in a young infant, EXCEPT:
	(a)	sunken fontanelle	(b)	pus draining from ear
	(c)	hypothermia	(d)	less than normal movement
82.	Abou	nt Plan B management of diarrhea, TRUE is:		
	(a)	Meant for severe dehydration		
	(b)	Rehydration is given mainly through ORS		
	(c)	Reassessment need not be done after rehydra		
	(d)	Withhold breastfeeding as child has become	-	
83.	-	iratory Distress Syndrome/ Hyaline Membrane		•
		prematurity		postmaturity
	` '	early onset sepsis	` ′	meconium aspiration
84.	-	iratory rate cut-offs for determining fast breath	_	
	` ′	60 breaths per minute or more	. ,	50 breaths per minute or more
	` ′	40 breaths per minute or more	` '	45 breaths per minute or more
85.		CI classification of Severe Pneumonia should i		
	` ′	Fast breathing	` '	Fast breathing + chest indrawing
	` '	Cough	(d)	Excessive crying
86.		ch of the following is a preventable cause of me		
	(a)	Hypothyroidism	(h)	Downs syndrome

(d) All of the above

(c) Cerebral palsy

87.	The	most common cause of diarrhea in children:		
	(a)	Rotavirus	(b)	Escherichiae coli
	(c)	Shigella	(d)	Vibrio cholera
88.	Covi	shield vaccine for COVID-19 is:		
	(a)	An RNA vaccine	(b)	Non-replicating viral vector vaccine
	(c)	Inactivated vaccine	(d)	Live attenuated vaccine
89.	True	about management of falciparum malaria with	Arter	misinin-based Combination therapy(ACT):
	(a)	May be used in Chloroquine sensitive areas		
	(b)	Artemisinin derivatives must be administered	as m	onotherapy in uncomplicated malaria
	(c)	Can be safely given in all trimesters of pregna	ancy	
	(d)	ACT-AL(Artemether+Lumefantrine) combinations with single dose of Primaquine	ation	is used for falciparum malaria in NE States
90.	All re	elated to Dengue infection EXCEPT:		
	(a)	Thrombocytosis	(b)	Relative bradycardia
	(c)	Hypotension	(d)	Break-bone fever
91.		table neonates born to mothers with suspected rue EXCEPT:	/conf	irmed COVID, all the following statements
	(a)	Mothers should be encouraged to initiate or c	ontin	nue breastfeeding
	(b) Rooming-in throughout the day and night and to practice skin-to-skin contact is encouraged			
	(c) Mother to wear mask during breastfeeding and while providing other care to the baby			
	(d)	Baby should be given vitamin C drop for prev	entic	on of infection
92.		isystem inflammatory syndromein children(M orally associated with:	IS-C)	is a rare but serious condition that has been
	(a)	Dengue	(b)	Covid-19
	(c)	SLE (Systemic Lupus Erythematosus)	(d)	Scrub typhus
93.	Featı	ares of Severe COVID-19 in children:		
	(a)	MIS-C	(b)	Septic shock
	(c)	ARDS	(d)	All of the above
94.	The	osmolarity of the new WHO-ORS formula is:		
	(a)	311mOsm/L	(b)	265 mOsm/L
	(c)	245 mOsm/L	(d)	240mOsm/L
95.	Birth	dose vaccines according to NIS includes all E	XCE	PT:
	(a)	RVV	()	OPV
	(c)	BCG	(d)	Hepatits B vaccine
96.	Seve	re measles can be associated with deficiency of	fwhi	ch vitamin:
	(a)	Vitamin D	(b)	Vitamin E
	(c)	Vitamin C	(d)	Vitamin A
97.	The 1	nost 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

98.	All c	an cause acute stridor in a child EXCEPT:		
	(a)	Infectious mononucleosis	(b)	Croup
	(c)	Laryngomalacia	(d)	Epiglottitis
99.	Kopl	ik spots are pathognomonic of:		
	(a)	Measles	(b)	Mumps
	(c)	Varicella	(d)	Herpes Simplex stomatitis
100.	Essei	ntial for Nephrotic syndrome includes all EXCI	EPT:	
	(a)	proteinuria	(b)	hematuria
	(c)	hypoalbuminemia	(d)	hyperlipidemia

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