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 - II

Γime Allowed: 2 hours	Full Marks : 200
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All questions carry equal marks of 2 each

Attempt all questions.			
1. Shock is clinically best assessed by:			
(a) Urine output	(b)	CVP	
(c) BP	(d)	Hydration	
2. First line of therapy in shock in patients of trauma:			
(a) Crystalloids	(b)	Colloids	
(c) Ionotropes	(d)	Blood transfusion	
3. 22 Gauge IV canula colour is:			
(a) Greena	(b)	Grey	
(c) Blue	(d)	Pink	
4. FNAC needle size is:			
(a) 18-22	(b)	22-26	
(c) 27-29	(d)	16-18	
5. Most common blood transfusion reaction is:			
(a) Febrile non-hemolytic transfusion reaction	(b)	Hemolysis	
(c) Transmission of infections	(d)	Electrolyte imbalance	
6. Massive blood transfusion is defined as:			
(a) Whole blood volume in 24 hours	(b)	Half blood volume in 24 hours	
(c) 40% blood volume in 24 hours	(d)	60% blood volume in 24 hours	
7. Which of the following is a non-absorbable suture?	•		
(a) Polypropylene	(b)	Vicryl	
(c) Catgut	(d)	Polydiaxanone	
8. In elliptical incision, length to width ratio:			
(a) 4:1	(b)	3:1	
(c) 2:1	(d)	1:1	
9. First step in trauma:			
(a) Blood transfusion	(b)	IV Fluids	
(c) Reconstruction	(d)	Maintenance of airways	
10. In a school bus accident, which of the victim will yo	ou att	end first?	
(a) A child with airway obstruction	(b)	A child with shock	
(c) A child with flail chest	(d)	A child with severe head injury	

11.	In tria	ge green colour indicates		
	(a)	Ambulatory patients	(b)	Dead or moribund
	(c)	High priority treatment or transfer	(d)	Medium priority or transfer
12.	Organ	n most commonly damaged in penetrating inju	ry of	abdomen is:
	(a)	Liver	(b)	Small intestine
	(c)	Large intestine	(d)	Duodenum
13.	Which	h of the following is used to define penetrating	neck	cinjury?
	(a)	2cm depth of wound	(b)	Injury to vital structures
	(c)	Breach of platysma	(d)	Through and through wound
14.	SDH	is caused by injury of:		
	(a)	Middle meningeal artery	(b)	Cortical veins
	(c)	Superficial temporal artery	(d)	NOTA
15.	Most	common organ involved in blunt injury to the	abdoı	men:
	(a)	Spleen	(b)	Liver
	(c)	Intestines	(d)	Kidney
16.	Best d	liagnostic test in stable patient with blunt traus	na ab	odomen is:
		CECT abdomen		MRI
	(c)	DPL	(d)	FAST
17.		ver wearing seat belt applied brake suddenly to elt injury is:	o avo	id accident. Most common organ injured in
		Liver	(b)	Spleen
	` '	Mesentery		Abdominal aorta
18.	Upper	r GI endoscopy and biopsy from lower esopha s presence of columnar epithelium with goblet	igus i	n a 48 year old lady with chronic heart burn
		Dysplasia		Hyperplasia
	` ′	Carcinoma in situ	` /	Metaplasia
10	` '	h of the following is most common neoplasm of	` /	1
17.		Pleomorphic adenoma		Adenoid cystic carcinoma
		Mucoepidermoid carcinoma		Mixed tumour
20		rding to 'Rule of nine', burns involving perineu		
20.	(a)			9%
	` '	18%	` /	3%
21.	` '	ears old child presents to Casualty with burns	` /	
	-	is equal to		
	(a)		` '	2%
	(c)	3%	(d)	4%
22.		and formula is:		
		% of burns x weight x $4 = \text{volume in ml}$		% of burns x weight/ $2 = \text{volume in ml}$
	(c)	% of burns x weight x $9 = \text{volume in ml}$	(d)	500 ml/m 2 BSA + 1500 ml/m 2 = volume in ml
23.	In bur	ns management, which of the following is the	fluid	of choice?
	` ′	Dextrose 5%	` /	Normal Saline
	(c)	Ringer Lactate	(d)	Isolyte-M

24.		eric colic due to stone is caused by:			
	(a) Stretching of renal capsule due to back pressure				
		Increased peristalsis of ureter to overcome the	ne obs	struction	
	` /	Irritation of intramural ureter			
	(d)	Extravasation of urine			
25.		gliana was admitted with complains of ureteriand medial aspect of thigh. What is the most p			
	(a)	At renal pelvis	(b)	At pelvic brim	
	(c)	At the level of gonadal vessels	(d)	Intramural portion of the ureter	
26.	In BF	PH most common lobe involved is			
	(a)	Lateral	(b)	Posterior	
	(c)	Median	(d)	Anterior	
27.	Most	common site of development of carcinoma of	fpros	tate is:	
	(a)	Peripheral zone	(b)	Central zone	
	(c)	Transitional zone	(d)	Fibromuscular stroma	
28.	Most	common renal stone:			
	(a)	Calcium oxalate	(b)	Uric acid stone	
	(c)	Staghorn Calculi	(d)	Cystine stone	
29.	H Pv	lori causes carcinoma by which mechanism?		•	
	•	Production of nitrosamines	(b)	Gastric metaplasia	
	` '	Increasing acid secretion		Causing mutation	
30.	` ′	entage of patients with perforated peptic ulcer	` ′		
		100%		80%	
	` '	60%	()	90%	
31	()	s for peptic ulcer disease should be taken:	()		
31.		Before breakfast	(b)	After lunch	
	` ′	Before Lunch		Bedtime	
22	` /		(u)	Bedriffe	
32.	_	bulb sign is seen in: Anterior shoulder dislocation	(h)	Doctorion chould an dialogation	
	` ′	Distal humerus fracture	` /	Posterior shoulder dislocation Proximal humerus fracture	
22	()		` /		
33.		yr old man taking NSAIDs for arthritis has an activities are stable after infusion of 1L RL. What s	_		
		CT abdomen		Upper GI Endoscopy	
	` '	PPI, antibiotics	` /	Surgery immediately	
2.4	. ,		` /		
34.	-	patient above is found to have a perforated duoc equired operation?	ienai	ulcer. Which of the following best describes	
		Suture closure of the perforation			
		Omental patch of the perforation			
		Repair of the perforation and truncal vagoton	nv		
		Repair of the perforation and highly selective	-	tomy	
35	` '	1 1 5 7	·	•	
JJ.	5. If the patient above were found to have a perforated Gastric ulcer instead of a duodenal ulcer, wha additional steps need to be performed?				
		Feeding Jejunostomy	(b)	Gastrojejunostomy	
	\ /		\ /	<i>3 3</i>	

(d) Pyloroplasty

(c) Biopsy of the ulcer

36.	The	commonest site of epistaxis in the young is:		
		Little's area	(b)	Bony septum
	(c)	Superior Turbinate	(d)	Lateral wall of nose
37.	Reac	tionary hemorrhage occurs:		
		After 24 hours	(b)	After 48 hours
	(c)	Within 24 hours	(d)	After 7 days
38.	Ideal	time for cleft lip repair surgery:		
		3-6 weeks	(b)	6-12 weeks
	(c)	1-1.5 years	(d)	3-4 years
39.	True	about cleft palate:		
		Surgery should be done at 1 year	(b)	Associated with hearing loss
		Associated with cleft lip in 45%		All of the above
40.	A ps	ychiatric patient who had undergone electro c	onvi	alsive therapy presented with pain over the
		lder. The arm was held in internal rotation and		
	Wha	t is the possible diagnosis?		
	` ′	Rotator cuff injury	` ′	Posterior dislocation of shoulder
	(c)	Anterior dislocation of shoulder	(d)	Acromio-clavicular dislocation
41.	Best	time for surgery of undescended testis is:		
	(a)	Just after birth	(b)	6 months of age
	(c)	12 months of age	(d)	24 months of age
42.	Best	investigation for acute intestinal obstruction is:		
	(a)	Barium studies	(b)	X Ray
	(c)	USG	(d)	ERCP
43.	Com	monest cause of acute intestinal obstruction is:		
	(a)	Adhesions	(b)	Volvulus
	(c)	Inguinal Hernia	(d)	Internal hernias
44.	Pulle	d up caecum is seen in:		
	()	Ca Colon	` ′	Carcinoid
	(c)	Ileocecal TB	(d)	Crohn's disease
45.	Typh	oid perforation occurs during:		
	()	1 st week	` /	2 nd week
	(c)	3 rd week	(d)	4 th week
46.	In rel	ation to congenital taclipes equinovarus (CTE	V), w	hich of the following statements are false?
		It is more common in boys.		
	` /	Spina bifida is associated with CTEV.		
		Deformity is characterised by hindfoot equin		-
	(d)	Pirani scoring system is used to assess the se-	verity	y of CTEV and guide prognosis.
47.		-year-old woman sustains a displaced and ang		
humerus. Following four months of treatment with initially a U-slab and then a humeral branching that has provided the provided the fractions of the art and shock red in growths demonstrated the fractions of the art and shock red in growths demonstrated the fractions of the art and shock red in growths demonstrated the fractions of the art and shock red in growths demonstrated the fractions of the art and shock red in growths demonstrated the fractions of the art and shock red in growths demonstrated the fractions of the art and shock red in growths demonstrated the art and shock red in growths are also are also and shock red in growths are also are also and shock red in growths are also and shock red in growths are also are also are also and shock red in growths are also a				•
patient has persistent pain and mobility at the fracture site and check radiographs demonst cortex bridging and no callus. What is the most likely diagnosis?				
		Delayed union		Atrophic non-union

(d) Infected non-union

(c) Hypertrophic non-union

48.	_	arding diagnostic imaging, which of the following	_	
		ssessing an x-ray confirmed L1 fracture of the	_	
	` /	CT	` /	Ultrasound
	` /	MRI	()	Bone scan
49.		ch of the following statements regarding the tre		
	` ′	Not all fractures require reduction or stabilisa	ation.	
	` /	Pain relief is a benefit of fracture treatment.		
		Relative stability leads to primary bone healing	_	
	(d)	Absolute stability leads to primary bone heali	ng	
50.		ch of the following statements are true?		
		Nasal polyps are a sign of cysticfibrosis in 10		
	` '	Nasal polyps rarely present with nasal obstru		
	` ′	Nasal polyps are characteristically painful w	-	-
	(d)	Oral steroids are never used in the treatment	of sir	nple nasal polyps.
51.	Syste	ematic supervision (examination and advice) o	f a w	oman during pregnancy is called –
	(a)	Pre-conceptional Care	` ′	Ante-natal care
	(c)	Ante-Partum surveillance	(d)	Family Planning
52.	Elde	rly Primi-gravida (as per FIGO) denotes a wor	man l	naving her first pregnancy at the age of -
	(a)	30 and above	(b)	32 and above
	(c)	35 and above	(d)	40 and above
53.	The a	average weight gain during the second half of I	oregn	ancy is –
	(a)	1 kg a fortnight	(b)	2 kg a fortnight
	(c)	5 kg in a month	(d)	1.5 kg in a month
54.		single most important measurement in fetal Ul 7th restriction is –	ltrasc	onography which reflects fetal nutrition and
	(a)	Head circumference	(b)	Femur Length
	(c)	Abdominal circumference	(d)	Bi-parietal diameter
55.	Pulm	nonary maturity in fetus is assessed by-		
	(a)	Doppler Ultrasonography	(b)	Fetal cardio-tocography
	(c)	Non-Stress test	(d)	Estimation of pulmonary Surfactant
56.	Supp	plementary Iron therapy is needed for all pregn	ant m	nothers from-
		20 weeks onwards		24 weeks
	(c)	16 weeks onwards	(d)	From first trimester
57.	The 1	minimum spacing between the first birth and si	ubsec	quent pregnancy in women should be –
		2 years		4 years
	` '	1 year	` ′	18 months
58.	-	er WHO recommendation in developing count nant mother should be at least –	ries, 1	the number of ante-natal check up/visit for a
	(a)	3	(b)	4
	(c)	2	(d)	6
59.	Dang	gerous Placenta previa is the name given to –		
	_	Central or Complete Placenta previa	(b)	Type-I or Low-lying Placenta
	(c)	Type II Posterior Placenta Previa	(d)	All of the above

60.	Bleeding per vagina is usually painless in –	
	(a) Placenta previa	(b) Abruptio Placenta
	(c) Inevitable abortion	(d) All of the above
61.	Couvelaire Uterus is seen in –	
	(a) Placenta Previa	(b) Uterine rupture
	(c) Abruptio Placenta	(d) Vasa Previa
62.	The following are features of Abruptio places	_
	(a) Painful vaginal bleeding, often associat	ted with PIH, trauma etc.
	(b) Character of blood is dark-coloured	
	(c) USG reveals placenta in lower segmen	
	(d) Features of Pre-ecclampsia may be pre-	
63.	Anemia in pregnancy is diagnosed when the I	_
	(a) 9 g/dl	(b) 12 g/dl
	(c) 11 g/dl	(d) 10 g/dl
64.	The most sensitive index of Iron deficiency A	nemia is-
	(a) MCV	(b) MCHC
	(c) PCV	(d) MCV
65.	The following are absolute contra-indications	s of pregnancy due to high maternal mortality-
	(a) Primary Pulmonary Hypertension	(b) Eisenmenger's Syndrome
	(c) Pulmonary Veno-occlusive disease	(d) All of the above
66.	The following are complications of Diabetes	in pregnancy except-
	(a) Miscarriage	(b) Intra-uterine Growth Restriction
	(c) Infection	(d) Polyhydramnios
67.	Immunoglobulin Injection is given to the mot	ther soon after delivery in –
	(a) Hepatitis C infection	(b) Hepatitis B infection
	(c) HIV infected mother	(d) All of the above
68.	Oxytocic agent contra-indicated in pregnancy	y with Bronchial Asthma is –
	(a) Carbetocin	(b) Oxytocin
	(c) Prostaglandin F-2-alpha	(d) Local PG-E1 and PG-E2
69.	Mode of delivery and breast feeding to the ne	ew born in HIV infected mother is best determined by
	(a) Period of gestation of fetus	
	(b) Co-infection with other STI and opport	unistic infection
	(c) Maternal CD-4 Count and Viral load	
	(d) None of the above	
70.		acute abdomen requiring surgery during pregnancy is-
	(a) Bowel perforation	(b) Acute Appendicitis
	(c) Renal Calculus	(d) Cholecystitis
71.	The commonest type of female pelvis is –	
	(a) Anthropoid	(b) Android
	(c) Gynecoid	(d) Platypelloid
72.	The ideal mode of delivery in Contracted pel	
	(a) Caesarean section	(b) Instrumental delivery
	(c) Trial of Labor	(d) McRobert's maneuver

73.	The following are contra-indications for induction of		-	
	(a) Contracted pelvis and cephalo-pelvic disproportion			
	(b) Malpresentation			
	(c) Previous classical cesarean section or myome	ecton	ıy	
5 4 1	(d) Pregnancy – induced hypertension			
74.	Bishop's Score indicates assessment of –			
	(a) Fetal well-being and heart rate(b) Intensity of uterine contraction			
	(c) Station of head as well as dilatation, effacement	ent c	onsistency and position of Cervix	
	(d) All of the above	, .	onsistency and position of Cervix	
75	The following drugs are used for induction of labor	·exce	ent-	
13.	(a) Dinoprostone (PGE2)		Oxytocin	
	(c) Methyl-ergometrine		Mifepristone (RU 486)	
76	Water intoxication is a potential complication of lab			
70.	(a) Artificial Rupture of Membrane (ARM)		Intra-uterine Foley catheter	
	(c) Prostaglandin E1	` '	Oxytocin	
77. 1	Labor, whether spontaneous or induced, is best mo	` /	•	
, , , ,	(a) Cervicograph and fetal doppler		Bishop's Score	
	(c) Partograph		Cardiotocography	
78. 1	Normal duration of pregnancy is considered to be-	` ′		
	(a) 280 days		37 weeks	
	(c) 365 days	(d)	9 months	
79. I	Morning Sickness in first trimester of pregnancy is	main	ly due to –	
	(a) Estrogen and progesterone			
	(b) b-Human Chorionic Gonadotrophin			
	(c) Follicle Stimulating Hormone and Luteinizing	Horr	mone	
	(d) Prolactin			
80. (Confirmatory test/modality for intra-uterine pregnation	ncy is	S-	
	(a) Latex Agglutination test (Urine)	` /	ELISA	
	(c) Radio-immunoassay	(d)	Ultrasonography	
	The perception of first active fetal movement by pregress called-	nant v	woman (feeling of life) in the second trimester	
	(a) Lightening	(b)	External ballottement	
	(c) Quickening	(d)	Fetal/Funic soufflé	
	Formula for calculation of Expected Date of Deliver first day of last menstrual period is called-	ry (El	DD) by adding 9 months and 7 days from the	
	(a) Shephard's Formula	(b)	Hadlock's formula	
	(c) Johnson's formula	(d)	Naegele's formula	
	An operative procedure of extracting the products cutting through anterior wall of uterus is called-	of co	onception before 28 weeks of pregnancy by	
	(a) Dilatations and Curettage	(b)	Cesarean section	
	(c) Hysterotomy	(d)	Suction evacuation	

84.	Episi	otomy is a surgical procedure done during-		
	(a)	3 rd stage of labor	(b)	Latent phase labor
	(c)	1 st stage labor	(d)	2 nd stage labor
85.	Cont	ra-indication of operative vaginal delivery (Fo	rcep	s and Ventouse) are all except-
	(a)	Inadequate pelvis		
	(b)	Unengaged fetal head		
	(c)	Fetus with bleeding diathesis (hemophilia)		
	(d)	Inadequate expulsive force and maternal exha	ustic	on
86.	Com	mon indications of primary Cesarean section a	are al	l except-
	(a)	Failed induction and Non-progress labor	(b)	Fetal distress
	(c)	Cephalo-pelvic disproportion	(d)	Previous Cesarean delivery
87.	_	ear old unmarried woman presents with recu d and situated in the hypogastrium or to one il		
	-	Pre-menstrual Syndrome		Pelvic Congestion syndrome
	` ′	Membranous Dysmenorrhea	` ′	Mittelsmerz's syndrome
QQ		orrhagia is defined as-	(4)	THE STATE OF THE S
00.		Cyclic bleeding per vagina where the cycle is	redi	uced to an arbitrary limit of 21 days or less
	` ′	Cyclic bleeding per vagina at normal interval		•
	` '	Irregular, acyclic bleeding per vagina	3, WII	in excessive amount of duration of both.
	` ′	Menstrual bleeding occurring more than 35	davs	s anart and which remains constant at that
	(4)	frequency	auj	superior and without tomains constant at time
89.	Inves	tigations for Dysfunctional uterine bleeding inc	lude	S-
	(a)	Ultrasonography	(b)	Dilatation and Curettage
	(c)	Hysteroscopy	(d)	All of the above
90.	The	commonest benign ovarian epithelial tumour is-	-	
	(a)	Mucinous cyst adenoma	(b)	Brenner Tumor
	(c)	Serous Cyst adenoma	(d)	Endometroid tumor
91.	The c	commonest site of pelvic endometriosis is-		
	(a)	Pouch of Douglas	(b)	Utero-sacral ligament
	(c)	Myometrium	(d)	Ovary
92.	Fully	mature Graffian follicle of Ovary, just prior to	ovul	ation measures about
	(a)	15 mm	(b)	20 mm
	(c)	24 mm	(d)	18 mm
93.	Com	plications of Pelvic Inflammatory disease inclu	ıde al	l except-
	(a)	Pelvic peritonitis	(b)	Ectopic pregnancy
	(c)	Infertility	(d)	Endometriosis
94.	Abor	tion is expulsion of an embryo or fetus weighin	ng –	
		1000 g or less	(b)	800g or less
	(c)	500g or less	(d)	750g or less
95.	Abor	tion associated with clinical evidences of infec	ction	of the uterus and its content is called-
		Inevitable abortion	(b)	
	(c)	Septic Abortion	(d)	Recurrent abortion

96.	96. Funneling or Y-shaped Cervix on Ultrasonography is seen in –			
	(a)	Chronic Cervicitis	(b)	Cervical Incompetence
	(c)	Congenital elongation of Cervix	(d)	Normal Multiparous cervix
97.	Com	monest cause of spontaneous abortion is-		
	(a)	Endocrine and metabolic factor	(b)	Genetic factors
	(c)	Anatomical abnormalities	(d)	Immunological disorders
98.	Follo	owing are criteria of Polycystic Ovarian Syndro	me e	except-
	(a)	Oligo/Anovulation	(b)	Hyper-androgenism
	(c)	Obesity	(d)	Polycystic Ovary in Ultrasonography
99.	•	ear old girl presented with primary amenorrhea elvis. The most probable diagnosis is-	with	cyclical lower abdominal pain and lump in
	(a)	Oligomenorrhoea	(b)	Spasmodic Dysmenorrhea
	(c)	Ovarian tumor	(d)	Cryptomenorrhoea
100.	The p	orimary organisms involved in Pelvic Inflamma	tory]	Disease includes-
	(a)	Neisseria gonorrhea	(b)	Chlamydia trachomatis
	(c)	Mycoplasma hominis	(d)	All of the above

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