

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 SUBJECT PAPER - II

Time Allowed : 2 hours

Full Marks : 200

All questions carry equal marks of 2 each.

Attempt all questions.

1. Which of the following would be the best treatment for a 2 cm thyroid nodule in a 50 year old man with FNAC revealing it to be a papillary carcinoma?
 - (a) Hemithyroidectomy
 - (b) Total thyroidectomy with left sided modified neck dissection
 - (c) Near total thyroidectomy with radiotherapy
 - (d) Hemithyroidectomy with modified neck dissection
2. In case of hypothyroidism which investigation is most informative and most commonly used:
 - (a) Serum TSH level
 - (b) Serum T3, T4 level
 - (c) Serum calcitonin assay
 - (d) Serum TRH assay
3. Alvarado scale is for:
 - (a) Diverticulitis
 - (b) Mesenteric lymphadenitis
 - (c) Acute appendicitis
 - (d) Pelvic abscess
4. True about appendicular mass is all except:
 - (a) Ochsner-Sherren regime followed
 - (b) Develops after 72 hours
 - (c) Fever is present
 - (d) Operation is to be done immediately
5. Hemorrhoids managed by manual reduction:
 - (a) I degree
 - (b) II degree
 - (c) III degree
 - (d) IV degree
6. Anal fissure best diagnosed by:
 - (a) Anoscopy
 - (b) History and superficial clinical examination
 - (c) PR examination
 - (d) Colonoscopy
7. The treatment of choice for inguinal hernia in infants is:
 - (a) Herniotomy
 - (b) Herniorrhaphy
 - (c) Truss
 - (d) Hernioplasty
8. Femoral hernia is characteristically..... the public tubercle:
 - (a) Lateral and below
 - (b) Medial and above
 - (c) Lateral and above
 - (d) Medial and below
9. All of the following are true about hernia surgery except:
 - (a) Surgery should not be done unless patient becomes symptomatic
 - (b) Hernia in children is treated with herniotomy
 - (c) Absorbable mesh should not be used for surgery
 - (d) Surgery can be done using laparoscopy

- 10.** In a patient presenting with abdominal trauma, fracture rib and bruise over left hypochondrium probable diagnosis is:
- (a) Rupture left lobe of liver
 - (b) Rupture right lobe of liver
 - (c) Splenic rupture
 - (d) Rupture stomach
- 11.** Nephrolithiasis occurs with the toxicity of:
- (a) Ritonavir
 - (b) Saquinavir
 - (c) Indinavir
 - (d) Nelfinavir
- 12.** Ureteric colic due to stone is caused by:
- (a) Stretching of renal capsule due to back pressure
 - (b) Increased peristalsis of ureter to overcome the obstruction
 - (c) Irritation of intramural ureter
 - (d) Extravasation of urine
- 13.** Sterile pyuria is characteristically seen in:
- (a) Renal tuberculosis
 - (b) Chronic Hydronephrosis
 - (c) Wilm's Tumor
 - (d) Neuroblastoma
- 14.** A 60 years old male with poor stream of urine, post void residual urine is 400 ml, bilateral hydronephrosis and prostate weighing 70g. His urea is 120 and creatinine 3.5.
Ideal "next immediate" step:
- (a) Catheterize with Foley catheter
 - (b) Bilateral PC nephrostomies
 - (c) CT to rule out carcinoma
 - (d) MRI pelvis
- 15.** The narrowest part of the ureter is at the:
- (a) Ureteropelvic junction
 - (b) Iliac vessel crossing
 - (c) Pelvic ureter
 - (d) Ureterovesicle junction
- 16.** In BPH most common lobe involved is:
- (a) Lateral
 - (b) Posterior
 - (c) Median
 - (d) Anterior
- 17.** Circumcision is contraindicated in:
- (a) Paraphimosis
 - (b) Meatal stenosis
 - (c) Hypospadias
 - (d) Phimosis
- 18.** Not true about urethral injuries is:
- (a) Catheterize the patient immediately
 - (b) Can be associated with fracture pelvis
 - (c) Bladder injury is associated with post urethral injuries
 - (d) Blood at the external urethral meatus is an imp feature
- 19.** 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
- 20.** Lord's and Jaboulay's operation is done for:
- (a) Rectal prolapsed
 - (b) Fistula in ano
 - (c) Inguinal hernia
 - (d) Hydrocele

- 21.** Varicocele is common on left testis because:
- (a) Left testicular vein drains into IVC which has high pressure
 - (b) Left testicular vein drains into left renal vein which has high pressure
 - (c) Left testis is lower situated
 - (d) Compression of testicular vein by rectum
- 22.** A psychiatric patient who had undergone electro convulsive therapy presented with pain over the shoulder. The arm was held in internal rotation and could not be rotated back to the normal position. What is the possible diagnosis?
- (a) Rotator cuff injury
 - (b) Posterior dislocation of shoulder
 - (c) Anterior dislocation of shoulder
 - (d) Acromio-clavicular dislocation
- 23.** Which of the following is associated with Virchow's triad?
- (a) Hypercoagulability
 - (b) Disseminated malignancy
 - (c) DVT
 - (d) All of the above
- 24.** Most common site for putting chest drain in case of pleural effusion:
- (a) 2nd intercostal space mid-clavicular line
 - (b) 7th intercostal space mid-axillary line
 - (c) 5th intercostal space mid axillary line
 - (d) 5th intercostal space just lateral to vertebral column
- 25.** A patient presents with sudden onset of breath lessness after subclavian vein cannulation. On examination, breath sounds are absent while the chest is hyper-resonant on percussion on one side. Most likely cause is:
- (a) Iatrogenic pneumothorax
 - (b) Subclavian vein air embolus
 - (c) Malposition of cannula
 - (d) Cardiac arrhythmia
- 26.** In a patient with tension pneumothorax, wide bore needle is Inserted at which intercostal space?
- (a) 2nd
 - (b) 4th
 - (c) 5th
 - (d) None of the above
- 27.** Percentage of burn in children is best assessed by?
- (a) Rule of 9
 - (b) Rule of palm = 1%
 - (c) Lund and Browder chart
 - (d) Wallace rule
- 28.** Parkland formula is:
- (a) Percentage of burns \times weight (kg) \times 4 = volume in ml
 - (b) Percentage of burns \times weight (kg)/2 = 1 volume in ml
 - (c) Percentage of burns \times weight (kg) \times 9 = volume in ml
 - (d) 500 ml/m² BSA + 1500 ml/m² = volume in ml
- 29.** In burns management, which of the following is the fluid of choice?
- (a) Dextrose 5%
 - (b) Normal saline
 - (c) Ringer lactate
 - (d) Isolyte-M
- 30.** Skin grafting is absolutely contraindicated in which skin infection
- (a) Staphylococcus
 - (b) Pseudomonas
 - (c) Streptococcus
 - (d) Proteus
- 31.** Light bulb sign is seen in:
- (a) Anterior shoulder dislocation
 - (b) Posterior shoulder dislocation
 - (c) Distal humerus fracture
 - (d) Proximal humerus fracture

32. Sebaceous cyst does not occur in the:
- (a) Scalp
 - (b) Scrotum
 - (c) Back
 - (d) Sole
33. A clean incised wound heals by:
- (a) Primary intention
 - (b) Secondary intention
 - (c) Excessive scarring
 - (d) None of the above
34. First line treatment for keloid is:
- (a) Intralesional injection of keloid
 - (b) Local steroid
 - (c) Radiotherapy
 - (d) Wide excision
35. Which of the following vessels is involved in extradural hematoma?
- (a) Middle meningeal artery
 - (b) Venous sinuses
 - (c) Bridging veins
 - (d) Middle cerebral artery
36. Lucid interval is classically seen in:
- (a) Intracerebral hematoma
 - (b) Acute subdural hematoma
 - (c) Chronic subdural hematoma
 - (d) Extradural hematoma
37. In a patient with head injury damage in the brain is aggravated by:
- (a) Hyperglycemia
 - (b) Hypothermia
 - (c) Hypocapnia
 - (d) Serum osmolality
38. Minimal Glasgow coma scale is:
- (a) 0
 - (b) 1
 - (c) 2
 - (d) 3
39. Most common tumor of parotid gland is:
- (a) Squamous cell carcinoma
 - (b) Pleomorphic adenoma
 - (c) Adenolymphoma
 - (d) None of the above
40. True about cleft palate:
- (a) Surgery should be done at 1 year
 - (b) Associated with hearing loss
 - (c) Associated with cleft lip in 45%
 - (d) All of the above
41. In severe injury, first to be maintained is:
- (a) Hypotension
 - (b) Hydration
 - (c) Airway
 - (d) Cardiac status
42. Which colour of triage is given the highest priority?
- (a) Red
 - (b) Green
 - (c) Yellow
 - (d) Black
43. Best diagnostic test in stable patient with blunt trauma abdomen is:
- (a) CECT scan
 - (b) MRI
 - (c) DPL
 - (d) FAST
44. What is the treatment of choice in severe flail chest?
- (a) IPPV
 - (b) Strapping
 - (c) Wiring
 - (d) Nasal Oxygen
45. FNAC needle size:
- (a) 18-22
 - (b) 22-26
 - (c) 27-29
 - (d) 16-18

46. A 75 yr old man taking NSAIDs for arthritis has an acute pain abdomen with guarding on examination. His vitals are stable after infusion of 1L RL. What should be the next step in the management?
- (a) CT abdomen (b) Upper GI Endoscopy
(c) PPI, antibiotics (d) Surgery immediately
47. The patient above is found to have a perforated duodenal ulcer. Which of the following best describes the required operation?
- (a) Suture closure of the perforation.
(b) Omental patch of the perforation
(c) Repair of the perforation and truncal vagotomy
(d) Repair of the perforation and highly selective vagotomy
48. A 16-Fr catheter is approx what cm in outer diameter
- (a) 16 (b) 10.4
(c) 8.7 (d) 5.3
49. What is the size of green cannula?
- (a) 20G (b) 18G
(c) 16G (d) 22G
50. The commonest site of epistaxis in the young is
- (a) Little's area (b) Bony septum
(c) Superior Turbinate (d) Lateral wall of nose
51. Vaginal delivery is allowed in all except
- (a) Monochorionic Monoamniotic twin (b) First twin cephalic and second twin breech
(c) Extended breech (d) Mento- anterior position
52. All the following are related to primary amenorrhoea except
- (a) Sheehans syndrome (b) Kallmans syndrome.
(c) Mayer Rokitansky kuster houser syndrome (d) Turner syndrome
53. A 30 year old posted for laparoscopic sterilization. All of the following are contraindication except
- (a) Hiatus Hernia (b) Obesity
(c) Heart disease (d) Hb < 8gm%
54. Best non surgical management for stress urinary incontinence is
- (a) Pelvic floor Muscle training (b) Bladder training
(c) Electrical stimulation (d) Vaginal weights
55. Carcinoma cervix is caused by
- (a) HIV (b) Hepatitis B
(c) HPV (d) HSV
56. Major sources of androgen in female are all except:
- (a) Ovary
(b) Adrenals
(c) Peripheral conversion of androgen precursors in the liver, GIT and adipose tissue
(d) Corpus Luteum
57. Which of the following is not included in Active Management of Third stage of labor?
- (a) Uterotonic within 1 minute of delivery (b) Immediate clamping and cutting of umbilical cord
(c) General massage of the uterus (d) Controlled cord traction

58. Most common cause of maternal Mortality in India is
- (a) Hemorrhage (b) Anemia
(c) Sepsis (d) Heart Disease
59. Use of folic acid to prevent congenital malformation should be best initiated :
- (a) During 1st trimester of pregnancy (b) Preconception
(c) During second trimester of pregnancy (d) During 3rd trimester of pregnancy
60. Fetal stage starts at
- (a) 8 weeks (b) 12 weeks
(c) 6 weeks (d) 9 weeks
61. Cardinal movements in mechanism of labour are
- (a) Engagement → descent → flexion → Internal rotation → extension → restitution → external rotation → expulsion
(b) Engagement → flexion → descent → Internal rotation → extension → expulsion
(c) Engagement → flexion → descent → Internal rotation → expulsion
(d) Engagement → extension → Internal rotation → external rotation → expulsion
62. Recurrent abortion in first trimester is most often due to
- (a) Chromosomal abnormalities (b) Uterine anomaly
(c) Hormonal imbalance (d) Infection
63. Choriocarcinoma commonly metastasize to
- (a) Liver (b) Lung
(c) Brain (d) Cervix
64. All the following are indication for termination of pregnancy in placenta praevia except
- (a) 37 weeks (b) Transverse lie
(c) IUD (d) Continuous bleeding
65. Common causes of retained placenta
- (a) Atonic uterus (b) Constriction ring
(c) Placenta accreta (d) Poor voluntary effort
66. Monochorionic monoamniotic twin occurs if division occurs
- (a) Before 24hours (b) 1-4 days
(c) 4-8days (d) > 8days
67. In a pregnant woman with heart disease, the following drug is contraindicated
- (a) Oxytocin (b) Misoprostol
(c) Methylergometrine (d) Carboprost
68. Gestational diabetes is diagnosed by
- (a) Glucose tolerance test (b) Random blood sugar
(c) Fasting and post-prandial blood sugar (d) 24 hours blood glucose profile
69. Concentration of Mgso₄ in the treatment of Eclampsia in meq/L
- (a) 7-10 (b) 10-15
(c) 2-4 (d) 4-7
70. Feto Maternal transfusion is detected by
- (a) Kleihauer Test (b) Spectrophotometry
(c) Benzidine test (d) None of the above

71. A pregnant lady develops chicken pox. During which part of her pregnancy will it lead to highest chance of fetal infection?
- (a) Last 5 days (b) 12-16 weeks
(c) 8-12 week (d) 16-20 weeks
72. Which of the following ovarian tumour is more prone to torsion during pregnancy?
- (a) Serous cystadenoma (b) Mucinous cystadenoma
(c) Dermoid cyst (d) Theca lutein cyst
73. Amniotic fluid embolism causes
- (a) Shock (b) DIC
(c) Bleeding tendency (d) All of the above
74. A patient at 22 weeks gestation is diagnosed with IUD which occurred at 17 weeks but did not have a miscarriage. The patient is at increased risk for
- (a) Septic abortion
(b) Future infertility
(c) Consumptive coagulopathy with hypofibrinogenemia
(d) Ectopic pregnancy
75. Diameter of engagement in brow presentation is
- (a) Mento vertical (b) Suboccipitobregmatic
(c) Submentobregmatic (d) Suboccipitofrontal
76. Hematuria during labor in previous caesarian is a sign of
- (a) Impending scar rupture (b) Urethral trauma
(c) Prolong labour (d) Cystitis
77. Ventouse delivery in 2nd stage labor is contraindicated in
- (a) Persistent occipito posterior position (b) Heart disease
(c) Uterine inertia (d) Premature baby
78. The following is always an indication for caesarian section except
- (a) Untreated stage 1b carcinoma cervix (b) Abruptio placentae
(c) Active genital herpes (d) Type 4 placenta praevia
79. Induction of labour by amniotomy can lead to the following complications
- (a) Prolonged labour (b) Cord prolapse
(c) Abruptio placentae (d) Rupture uterus
80. Indication for caesarian hysterectomy are all except
- (a) Placenta accreta (b) Couvelaire Uterus
(c) Atonic Uterus with uncontrolled PPH (d) Rupture Uterus
81. Best parameter for ultrasound evaluation of IUGR is
- (a) Placental membrane (b) Abdominal circumference
(c) Length of femur (d) BPD
82. Fertilized ovum reaches the uterine cavity by
- (a) 4-5 days after fertilization (b) 6-7 days after fertilization
(c) 7-9 days after fertilization (d) 2-3 days after fertilization

83. Complication of diabetes of pregnancy are all except
- (a) Macrosomia
 - (b) Shoulder dystocia
 - (c) Hyperglycemia in newborn
 - (d) IUGR
84. Ovarian artery is a branch of
- (a) Internal iliac artery
 - (b) common iliac artery
 - (c) Aorta
 - (d) External iliac artery
85. The highest volume overload in a parturient due to maximum cardiac output is seen at
- (a) During 2nd stage of labour
 - (b) At term
 - (c) Immediately post delivery
 - (d) After a heavy meal
86. A female at 37 weeks gestation has a mild labor pain for 10 hours and cervix is persistently 1cm dilated, but un-effaced. What will be next course of action?
- (a) Sedation and wait
 - (b) Augmentation with oxytocin
 - (c) Caesarian section
 - (d) Amniotomy
87. The antidote for mgso₄ toxicity in eclampsia is
- (a) Calcium gluconate
 - (b) Sodium chloride
 - (c) Calcium chloride
 - (d) Calcium carbonate
88. B Lynch suture is applied on
- (a) Cervix
 - (b) Uterus
 - (c) Fallopian tubes
 - (d) Ovaries
89. In a patient with Down's syndrome, Triple test was done. Expected results are
- (a) High HCG, Low ue₃, low AFP
 - (b) Low HCG, High ue₃, high AFP
 - (c) High HCG, high ue₃, Low AFP
 - (d) Low HCG, low ue₃, high AFP
90. Which of the following vaccines is contraindicated in pregnancy
- (a) Hepatitis B
 - (b) Yellow fever
 - (c) Rabies
 - (d) Cholera
91. All are test for tubal patency except
- (a) Hysterosalpingography
 - (b) Laparoscopic chromopertubation
 - (c) Saline Sonosalpingography
 - (d) Folliculometry
92. Rotterdam criteria for PCOS are
- (a) Oligo/Anovulation
 - (b) Hyperandrogenism with exclusion of other causes of hyperandrogenism
 - (c) Polycystic ovaries (either 12 or more or increased ovarian volume >10cm³)
 - (d) All of the above
93. Choose the wrong statement about genital tuberculosis
- (a) Usually secondary to tuberculosis elsewhere in the body
 - (b) Bacilli reaches genital tract by Lymphatic spread in 90%
 - (c) Genital TB is found in 10% of infertile women in India
 - (d) Fallopian tube is affected in 90-100% of cases
94. Absolute contraindication for Hormone replacement Therapy is
- (a) Thrombosis
 - (b) Fibroadenoma
 - (c) Fibrocystic disease
 - (d) Hemorrhage

- 95.** SRY gene is located in
- (a) Long arm of Y chromosome
 - (b) Short arm of Y chromosome
 - (c) Short arm of X chromosome
 - (d) Long arm of X chromosome
- 96.** Intrauterine Insemination means implantation of
- (a) Semen
 - (b) Washed Semen
 - (c) Million of sperm
 - (d) Fertilized ova
- 97.** All are the true about krukemberg's tumour except :
- (a) Has a rough surface
 - (b) Usually bilateral
 - (c) Arises from stomach carcinoma
 - (d) Shape of ovary is maintained
- 98.** All are features of Mullerian agenesis except :
- (a) 46XX
 - (b) Absent ovary
 - (c) Absent vagina
 - (d) Normal breast development
- 99.** Ulceration of vulva is seen in the following except:
- (a) Syphillis
 - (b) chancroid
 - (c) Herpes genitalis
 - (d) Trichomoniasis
- 100.** The following indicate severe preeclampsia except:
- (a) Blood Pressure>160/110
 - (b) Severe headache
 - (c) Oliguria
 - (d) Pedal edema

* * * * *