

**Combined Medical Services Examination-2020**  
**Paper-I**

1.

A chronic alcoholic develops a paroxysm of palpitations after alcohol binge. Which of the following Arrhythmia is most likely?

- (a) Ventricular fibrillation
- (b) Ventricular premature complex
- (c) Atrial flutter
- (d) Atrial fibrillation

2.

An elderly-man with history of Diabetes mellitus and Coronary Artery Disease comes for follow-up, with complaints of muscle pains. Which one of the following drugs could be the most likely cause?

- (a) Aspirin
- (b) Glimepiride
- (c) Enalapril
- (d) Atorvastatin

3.

A 40-year old lady comes to outdoor clinic with complaints of sudden onset chest pain. The chest X-ray shows bilateral Pneumothorax. Examination reveals abnormalities of body habitus-including long arms, legs and finger (arachnodactyly), scoliosis, high arched palate, joint hypermobility, and a pansystolic murmur at cardiac apex. Which one of the following diseases is most likely?

- (a) Takayasu's arteritis
- (b) Raynaud's syndrome
- (c) Marfan's syndrome
- (d) Rheumatic heart disease-Mitral regurgitation

4.

All of the following are indications for treadmill testing/exercise-testing EXCEPT:

- (a) To confirm the diagnosis of angina
- (b) To evaluate stable angina
- (c) To assess outcome after coronary revascularization
- (d) To evaluate the treatment efficacy of antianginal drugs

5.

Kussmaul's sign is present in all of the following conditions, EXCEPT:

- (a) Massive Pulmonary Embolism
- (b) Restrictive Cardiomyopathy
- (c) Hypertrophic Cardiomyopathy
- (d) Right Ventricular Infarction

6.

Which one of the following is NOT a common cause of atrial fibrillation?

- (a) Mitral regurgitation
- (b) Hypothyroidism
- (c) Hypertension
- (d) Acute myocardial infarction

7.

In an ECG recording, P wave is produced by:

- (a) Atrial depolarisation
- (b) Atrial repolarisation
- (c) Ventricular depolarisation
- (d) Ventricular repolarisation

8.

Which one of the following modalities is NOT used in the treatment of ventricular tachycardia?

- (a) DC Cardioversion
- (b) Injection Lignocaine
- (c) Injection Amiodarone
- (d) Injection Adenosine

9.

Which one of the following drugs is a Direct Renin Inhibitor?

- (a) Benedipine
- (b) Azilsartan
- (c) Aliskiren
- (d) Lisinopril

10.

All of the following are causes of systolic hypertension with wide pulse pressure EXCEPT:

- (a) Aortic regurgitation
- (b) Thyrotoxicosis
- (c) Patent ductus arteriosus
- (d) Aortic stenosis

11.

Signet-ring sign on CT-chest is suggestive of:

- (a) Bronchiectasis
- (b) Active alveolitis
- (c) Aspergilloma
- (d) Sarcoidosis

12.

Oral corticosteroids are best introduced in the treatment of chronic bronchial asthma when it is:

- (a) Mild persistent
- (b) Moderate persistent
- (c) Severe persistent
- (d) Very severe persistent

13.

An 18-year old male has insulin dependent diabetes, with malabsorption syndrome and bilateral upper lobe bronchiectasis. A diagnostic work-up will include all EXCEPT:

- (a) 24 hour fecal fat-estimation
- (b) CT-chest
- (c) Lung biopsy
- (d) DNA sequencing study

14.

Which one of the following antigens is commonly associated with causation of Farmer's lung?

- (a) Penicillium
- (b) Actinomycetes
- (c) Aspergillus
- (d) Candida

15.

The Gene X-pert test used for MTB detection has the additional advantage of detection of which of the following?

- (a) INH resistance
- (b) Rifampicin resistance
- (c) Multi drug resistance
- (d) Ethambutol resistance

16.

The most common cause of chronic type II respiratory failure is:

- (a) Severe pneumonia
- (b) Severe COPD
- (c) Severe bronchial asthma
- (d) Severe pulmonary thromboembolism

17.

The most frequent symptom in respiratory diseases is:

- (a) Breathlessness
- (b) Chest pain
- (c) Hemoptysis
- (d) Cough

18.

A 26-year old young lady attends medical emergency and is labelled as acute severe asthma by the emergency physician. Which one of the following is unlikely to be a part of the prescription?

- (a) Albuterol
- (b) Anti-leukotrienes
- (c) Aminophylline
- (d) Magnesium sulfate

19.

Consider the following statements with regard to respiratory examination:

1. Change in note, when patient phonates "EEE" (Egophony) is characteristic of interstitial fibrosis
2. Whispered pectoriloquy is characteristic of lung consolidation
3. Monophonic wheeze is characteristic of asthma
4. Hyper-resonant note on percussion is characteristic of pneumothorax

Which of the above statements are correct?

- (a) 1 and 3
- (b) 2 and 4 only
- (c) 1, 2 and 4
- (d) 2, 3 and 4

20.

All of the following are the causes of exudative Pleural Effusion, EXCEPT:

- (a) SVC obstruction
- (b) Fungal infection
- (c) SLE
- (d) Meig syndrome

21.

Which one of the following is NOT true about Ghrelin?

- (a) It stimulates appetite
- (b) It decreases gastric emptying
- (c) It increases acid secretion
- (d) Fasting increases its secretion

22.

Fecal elastase test is used for diagnosing which one of the following conditions?

- (a) Lactose intolerance
- (b) Mucosal inflammation
- (c) Bile acid secretory defects
- (d) Pancreatic dysfunction

23.

The recent classification system for listing a patient as a candidate for liver transplantation is:

- (a) Child Pugh score
- (b) APACHE score
- (c) MELD score
- (d) Metavir score

24.

The blood supply of liver consists of:

- (a) 50 % hepatic artery and 50 % portal vein
- (b) 80 % portal vein and 20 % hepatic artery
- (c) 80 % hepatic artery and 20 % portal vein
- (d) 70 % hepatic artery and 30 % portal vein

25.

All of the following conditions are associated with Glomerulonephritis with low complement level, EXCEPT:

- (a) Subacute bacterial endocarditis
- (b) IgA nephropathy
- (c) Systemic lupus erythematosus
- (d) Cryoglobulinaemia

26.

Consider the following statements with regard to oral aphthous ulcers:

1. They are superficial and painful
2. They may occur in women just prior to menstruation
3. Oral glucocorticoids may be needed for the treatment of severe, recurrent cases
4. They are pre-malignant and progress over few years to squamous cell carcinoma of the oral cavity

Which of the above statements are correct?

- (a) 1 and 4 only
- (b) 2 and 3 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

27.

Which one of the following statements about Barrett's Oesophagus is NOT correct?

- (a) It is a pre-malignant condition
- (b) Normal squamous cells lining the lower oesophagus are replaced by columnar cells
- (c) Normal columnar cells lining the lower oesophagus are replaced by squamous cells
- (d) It is an adaptive response to chronic gastro-oesophageal reflux

28.

The most common cause of acute hepatitis outbreaks in India is:

- (a) Hepatitis E
- (b) Hepatitis C
- (c) Hepatitis B
- (d) Hepatitis A

29.

Spontaneous oesophageal perforation after a bout of forceful vomiting or retching is characteristically seen in which one of the following conditions?

- (a) Menetrier's disease
- (b) Boerhaave's syndrome
- (c) Achalasia of the oesophagus
- (d) Barrett's oesophagus

30.

Eradication of helicobacter pylori infection may prove beneficial in the following extra-gastric disorders EXCEPT:

- (a) Unexplained vitamin B12 deficiency
- (b) Idiopathic thrombocytopenic purpura
- (c) Iron deficiency anaemia without gastro-intestinal bleeding
- (d) Acute glomerulonephritis

31.

What is the target blood Hemoglobin level when treating anaemia in Stage-4 chronic kidney disease patient?

- (a) 8 to 10 gm/dL
- (b) 10 to 12 gm/dL
- (c) 12 to 13 gm/dL
- (d) 13 to 14 gm/dL

32.

Which one of the following complications of chronic kidney disease is observed in patients with low parathyroid hormone levels?

- (a) Adynamic bone disease
- (b) Tumoral calcinosis
- (c) Osteitis fibrosa cystic
- (d) Calciphylaxis

33.

All of the following statements about adult polycystic kidney disease are true, EXCEPT:

- (a) It is inherited as autosomal dominant trait
- (b) It is usually associated with marked proteinuria
- (c) It is usually associated with systematic hypertension, from young age
- (d) It is associated with Berry aneurysm

34.

Consider the following statements in relation to an adult patient:

1. Oliguria is defined as passage of urine less than 300 ml per day
2. Anuria is said to exist when less than 50 ml urine is passed per day
3. Polyuria is defined as urine volume in excess of 3 litre per day

Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

35.

White cell casts in urine examination are strongly suggestive of:

- (a) Nephritis
- (b) Pyelonephritis
- (c) Renal stone disease
- (d) Papillitis

36.

A 13-year old boy presents with hematuria, oliguria, edema and hypertension. He has history of sore throat two weeks prior to presentation. Laboratory investigations are remarkable for low C<sub>3</sub> and increased titres of ASO and antiDNase. Which one of the following statements is NOT correct about management for this condition?

- (a) Renal biopsy is rarely required for making diagnosis
- (b) Antibiotic treatment is given for streptococcal infection
- (c) Treatment is largely supportive
- (d) Immunosuppressants are to be used for crescentic glomerulonephritis

37.

Which one of the following statements is NOT correct regarding the risk factors for nephrolithiasis?

- (a) Higher dietary calcium increases risk
- (b) Higher animal protein intake increases risk
- (c) Higher dietary potassium intake lowers risk
- (d) Lower urine citrate increases the risk

38.

A 60-year old patient is admitted in emergency with seizure, aphasia and altered sensorium. He has history of fever and headache for the preceding 3 days. The CSF examination is unremarkable. What would be the probable diagnosis?

- (a) Multiple sclerosis
- (b) Tubercular meningitis
- (c) Pyogenic (bacterial) meningitis
- (d) Viral encephalitis

39.

Drug of choice for the treatment of Trigeminal Neuralgia is:

- (a) Carbamazepine
- (b) Aceclofenac
- (c) Thiamine
- (d) Prednisone

40.

Constructional skills is a function of which lobe?

- (a) Dominant temporal lobe
- (b) Non dominant parietal lobe
- (c) Frontal lobe
- (d) Non dominant temporal lobe

41.

Vertical gaze palsy with convergence retraction nystagmus is seen in:

- (a) Weber syndrome
- (b) Millard Gubler syndrome
- (c) Claude syndrome
- (d) Parinaud syndrome

42.

A patient on looking forward was found to have his right eye deviated downwards and outwards with pupil dilated. He is suffering from:

- (a) Left 3<sup>rd</sup> nerve palsy
- (b) Left 6<sup>th</sup> nerve palsy
- (c) Right 4<sup>th</sup> nerve palsy
- (d) Right 3<sup>rd</sup> nerve palsy

43.

All of the following are features of Cauda Equina syndrome EXCEPT:

- (a) Low back pain
- (b) Lower limb areflexia
- (c) Loss of bladder function
- (d) Extensor plantar response

44.

A 68-year old male presented in OPD with complaints of progressive small handwriting. On examination, he had resting tremor, bradykinesia, rigidity and postural instability. This patient is suffering most likely from:

- (a) Parkinson's disease
- (b) Vascular dementia
- (c) Alzheimer's disease
- (d) Fronto temporal dementia

45.

An elderly patient presents with abnormal gait. He has a wide base freezing gait with imbalance, comprising short strides, shuffling along the floor and difficulty with starts and turns. Heel-Shin test is normal. Which one of the following is most likely disorder?

- (a) Cerebellar ataxia
- (b) Sensory ataxia
- (c) Frontal gait disorder
- (d) Parkinson's disease

46.

Cushing reflex, seen in conditions of raised intra cranial pressure includes all of the following EXCEPT:

- (a) Bradycardia
- (b) Hypertension
- (c) Irregular respiration
- (d) Hypothermia

47.

A 35 year old man presents with history of low grade fever and headache for last five weeks. Clinical examination is remarkable for signs of meningismus. He undergoes lumbar puncture (LP) and a day later reports worsening of headache. Which one of the following features is NOT consistent with diagnosis of "Post-LP" headache?

- (a) Post-LP headache usually begins within 48 hours
- (b) Post-LP headache worsens in sitting position
- (c) Post-LP headache is most severe upon waking up
- (d) Post-LP headache may improve with caffeine intake

48.

Which one of the following investigations is NOT appropriate in a case of recurrent thrombosis?

- (a) Antiphospholipid antibodies
- (b) Bcr-Abl assay
- (c) Protein C and S assays
- (d) Antithrombin level

49.

All of the following are causes of reactive thrombocytosis, EXCEPT:

- (a) Hemolytic anemia
- (b) Megaloblastic anemia
- (c) Post splenectomy
- (d) Chronic inflammatory disorders

50.

Cryoprecipitate cannot be used for treatment of which one of the following conditions?

- (a) Von Willebrand disease
- (b) Hypofibrinogenemia
- (c) Hemophilia–B
- (d) Hemophilia–A

51.

Pyruvate kinase deficiency results in deficiency of ATP production and a chronic haemolytic anaemia. The disorder is inherited as an:

- (a) Autosomal recessive trait
- (b) X-linked recessive trait
- (c) Autosomal dominant trait
- (d) X-linked dominant trait

52.

Sickle cell disease may be associated with any of the following EXCEPT:

- (a) Acute chest syndrome
- (b) Aplastic crisis
- (c) Splenic sequestration crisis
- (d) Conn's syndrome

53.

Fever with splenomegaly and lymphadenopathy can be seen in

- (a) Infectious mononucleosis
- (b) Chronic leukaemia
- (c) Both infectious mononucleosis and chronic leukaemia
- (d) Neither infectious mononucleosis nor chronic leukaemia

54.

Every individual carries four alpha gene alleles. Deletion of three alleles leads to development of:

- (a) Haemoglobin X disease
- (b) Haemoglobin H disease
- (c) Haemoglobin F disease
- (d) Hydrops fetalis

55.

Which one of the following is NOT true regarding Chronic Myeloid Leukaemia (CML)?

- (a) It is a clonal malignancy of haematopoietic stem
- (b) Risk of developing CML is increased in monozygotic twins
- (c) CML is defined by presence of BCR-ABL 1 fusion gene
- (d) 10 year survival with TKI therapy is 85%

56.

Diagnostic criteria of multiple myeloma includes which of the following?

1. Increased malignant plasma cells in the bone marrow
2. Serum and/or urinary M protein
3. Skeletal lytic lesions
4. Skeletal blastic lesions

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 1, 3 and 4
- (c) 1, 2 and 4
- (d) 2, 3 and 4

57.

The most predominant type of serum immunoglobulin involved in patients with plasma cell disorder is:

- (a) Ig G
- (b) Ig A
- (c) Ig D
- (d) Light chains

58.

Which one of the following statements is NOT true regarding the thyroid function/disorder in pregnancy?

- (a) There is an increase in the metabolism of thyroxine by placenta
- (b) Hyperemesis gravidarum may be associated with thyrotoxicosis in pregnancy
- (c) Levothyroxine replacement therapy dose should be decreased by 30–50% early in pregnancy
- (d) Impaired cognitive impairment may be seen in the offspring of mother with subclinical hypothyroidism

59.

Which one of the following is NOT the criterion for the diagnosis of Diabetes mellitus?

- (a) Symptoms of diabetes and random plasma sugar concentration  $\geq 200$  mg/dL
- (b) HbA1c  $\geq 6.5$  %
- (c) 2-hours plasma glucose  $\geq 200$  mg/dL during an oral glucose tolerance test
- (d) Fasting plasma glucose  $\geq 110$  mg/dL

60.

A young lady presents in outdoor clinic with complaints of menstrual irregularity, weight gain, hair loss, tiredness and weakness. What will be the investigation of choice?

- (a) FSH & LH level
- (b) Estrogen level
- (c) Free T<sub>3</sub> and free T<sub>4</sub> level
- (d) Free T<sub>4</sub> and TSH level

61.

Consider the following statements about erectile dysfunction in diabetic males:

1. It affects 60 % of males
2. Its common cause is an underlying neuro-vascular pathology
3. It may be aggravated by beta-adrenergic agonist drugs
4. Endocrine disorders like hyperprolactinemia may cause it

Which of the statements given above are true?

- (a) 1 and 2
- (b) 2 and 3
- (c) 2 and 4
- (d) 3 and 4

62.

All of the following can cause Hyperprolactinemia, EXCEPT:

- (a) Craniopharyngioma
- (b) Hyperthyroidism
- (c) Stress
- (d) Chronic renal failure

63.

All of the following can be seen in a case of thyrotoxicosis, EXCEPT:

- (a) Atrial fibrillation
- (b) Periodic paralysis
- (c) Deafness
- (d) Osteoporosis

64.

Which one of the following hormones acts via the receptor tyrosine kinase?

- (a) FSH
- (b) TSH
- (c) IGF-1
- (d) PTH

65.

Consider the following disorders as constituent of Multiple Endocrine Neoplasia Type 2a (MEN 2a):

1. Primary Hyperparathyroidism
2. Pituitary tumours
3. Medullary carcinoma of thyroid
4. Pheochromocytoma

Which of the above are correct?:

- (a) 1, 2 and 4
- (b) 1, 2 and 3
- (c) 1, 3 and 4
- (d) 2, 3 and 4

66.

Consider the following statements with regard to Graves' ophthalmopathy :

1. Proptosis is often asymmetric and can even appear to be unilateral
2. It is a clinical diagnosis
3. Worsening of symptoms upon glucocorticoid withdrawal is common
4. Radiation therapy is very effective in treatment

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 2, 3 and 4
- (d) 1 and 4 only

67.

All of the following are common aetiologies of delirium EXCEPT:

- (a) Hyperthyroidism
- (b) Hypothyroidism
- (c) Hyperparathyroidism
- (d) Hypoparathyroidism

68.

Key anthropometric measurements important for evaluating the degree of obesity are:

- (a) Weight, height and waist circumference
- (b) Weight, height and hip circumference
- (c) Weight, height and mid-thigh circumference
- (d) Weight, height and chest circumference

69.

What is the minimum BMI (Body Mass Index) recommended for considering adjuvant pharmacologic treatment in obesity with comorbidity?

- (a) 23 kg/m<sup>2</sup>
- (b) 25 kg/m<sup>2</sup>
- (c) 27 kg/m<sup>2</sup>
- (d) 30 kg/m<sup>2</sup>

70.

A young medical student while working in HIV ward got pricked accidentally on the finger by a syringe needle which was used to draw blood from a patient. Patient's infection status is not known. Which one of the following therapeutic interventions will be the best interest of this student?

- (a) To start Dolutegravir immediately
- (b) To wash wound with soap and water and start Emtricitabine
- (c) To give Dolutegravir + Tenofovir + Emtricitabine
- (d) To give Dolutegravir + Tenofovir + Emtricitabine + HBV Immunoglobulin

71.

Cryptococcal infection is acquired through:

- (a) Inhalation route
- (b) Bite of Culex mosquito
- (c) Direct skin contact
- (d) Ingestion of spores

72.

Which one of the following is NOT appropriate treatment for *Echinococcus granulosus* and hydatid disease?

- (a) Albendazole 400 mg twice in a day for 3 months
- (b) Diethylcarbamazine 2 mg/kg thrice in a day for 12 days
- (c) PAIR (percutaneous puncture, aspiration, injection of scolicide, reaspiration)
- (d) Praziquantel (20 mg/kg twice daily for 14 days)

73.

Which one of the following infections is NOT amenable to post-exposure prophylaxis with specific immunoglobulins?

- (a) Hepatitis B
- (b) HIV
- (c) Tetanus
- (d) Rabies

74.

Echinocandins are a class of:

- (a) Antiviral agents
- (b) Antiparasitic agents
- (c) Antitubercular agents
- (d) Antifungal agents

75.

Recommended first time drug for initial treatment of tuberculosis include all EXCEPT:

- (a) Isoniazid
- (b) Rifampin
- (c) Ethambutol
- (d) Ethionamide

76.

The most frequent adverse reaction of significance among people treated for drug-susceptible tuberculosis is:

- (a) Colitis
- (b) Hepatitis
- (c) Cystitis
- (d) Enteritis

77.

All adult patients in whom anti-tubercular treatment is being started should undergo baseline assessment of:

- (a) Complete blood count
- (b) Liver function test
- (c) Lipid profile
- (d) Pulmonary function test

78.

A 30 year old male presents with fever, headache, anorexia, nausea, vomiting and diarrhoea. On examination tongue is coated with abdominal tenderness, soft splenomegaly, relative bradycardia and rose spots rash. The most likely diagnosis is:

- (a) Malaria fever
- (b) Enteric fever
- (c) Leptospirosis
- (d) Dengue fever

79.

The extrapulmonary sites most commonly involved in tuberculosis are all EXCEPT:

- (a) Lymph node TB
- (b) Genitourinary TB
- (c) Skeletal TB
- (d) Skull TB

80.

Which of the following is NOT a clinical feature of Botulism?

- (a) Impaired alertness
- (b) Dysphagia
- (c) Diplopia
- (d) Ptosis

81.

Post exposure prophylaxis (PEP) for HIV should contain:

- (a) 2 antiretroviral drugs administered for 4 weeks
- (b) 2 antiretroviral drugs administered for 6 weeks
- (c) 3 antiretroviral drugs administered for 4 weeks
- (d) 3 antiretroviral drugs administered for 6 weeks

82.

Paralytic rabies is characterized by:

- (a) Maculopapular rash
- (b) Flaccid muscle weakness
- (c) Spastic muscle weakness
- (d) Hyperexcitability and facial weakness

83.

All of the following are seen in Marasmus EXCEPT:

- (a) Reduced triceps skinfold
- (b) Reduced mid arm circumference
- (c) Protein wasting
- (d) Decreased body mass index

84.

A 20 year young lady presents with high grade fever for five days and palpable purpura over extremities. She is found to be confused, with presence of neck stiffness. Which of the following is the most likely diagnosis?

- (a) Disseminated intravascular coagulation
- (b) Acute meningococemia
- (c) Antiphospholipid antibody syndrome
- (d) Thrombotic thrombocytopenic purpura

85.

Fibroblast Growth Factor 23 (FGF 23) is increased in which one of the following conditions?

- (a) Osteomalacia
- (b) Osteoporosis
- (c) Paget's disease
- (d) Renal Osteodystrophy

86.

Which of the following crystals are deposited in a case of pseudogout?

- (a) Monosodium urate
- (b) Calcium phosphate
- (c) Cholesterol crystals
- (d) Calcium pyrophosphate dehydrate (CPPD)

87.

Which of the following features are associated with poor prognosis in Diffuse Cutaneous Systemic Sclerosis?

- 1. Older age
- 2. A high gas transfer factor for carbon monoxide (TLCO)
- 3. Proteinuria
- 4. Diffuse skin disease

Select the correct answer using the code given below:

- (a) 1, 2 and 4
- (b) 3 and 4 only
- (c) 1, 3 and 4
- (d) 1, 2 and 3

88.

Which of the following statements regarding pegloticase are correct?

- 1. It is enzyme conjugate
- 2. It is useful in chronic Gout management
- 3. The main adverse effects are infusion reactions and development of antibodies

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

89.

The most common cause of sensorineural hearing loss in adults is:

- (a) Otosclerosis
- (b) Meniere's disease
- (c) Presbycusis
- (d) Meningitis

90.

A 50-year old male presents with dizziness. Which one of the following clinical findings does NOT favour a central cause?

- (a) Poor saccades
- (b) Gaze evoked nystagmus
- (c) Inhibition by visual fixation
- (d) Presence of diplopia, dysarthria

91.

A young primigravida with 11 weeks pregnancy presents with sudden onset pain and swelling of left lower limb. Homan's sign is positive. Duplex ultrasonogram shows non-compressibility of veins in the affected region, with absent flow. The drug of choice for treatment is:

- (a) Enoxaparin
- (b) Amoxicillin–Clavulanic acid
- (c) Warfarin
- (d) Limb elevation only

92.

All of the following are clinical features of hypovolaemic shock EXCEPT:

- (a) Cold clammy skin
- (b) Bradycardia
- (c) Hypotension
- (d) Oliguria

93.

Which one of the following is most appropriate to describe classic heat stroke?

- (a) Patients core body temperature rises above 44°C with headache, nausea and loss of consciousness
- (b) Patients core body temperature rises above 40 °C with muscle tremors, confusion, loss of consciousness and loss of sweating
- (c) Patients core body temperature rises above 38 °C with increased sweating, tachypnoea, tachycardia and loss of consciousness
- (d) Patients core body temperature is above 40 °C with disorientation, increased sweating, peripheral vasodilation, tachycardia and loss of consciousness

94.

Which of the following is NOT a priority in the initial management of shock from venomous snake?

- (a) Aggressive volume resuscitation
- (b) Vasopressor support
- (c) Anti-venom administration
- (d) All of these are undertaken simultaneously

95.

Which one of the following is NOT an appropriate criterion for diagnosis of Systemic Inflammatory Response Syndrome (SIRS)?

- (a) Respiratory rate > 20/mm
- (b) Heart rate > 90/min
- (c) Total leucocyte count >  $16 \times 10^9$  per Litre
- (d) Temperature > 38 °C

96.

All of the following predispose to Acute Respiratory Distress Syndrome EXCEPT:

- (a) Acute Pancreatitis
- (b) Toxic gas inhalation
- (c) Aspiration of gastric contents
- (d) Severe Bronchial asthma

97.

An 8 year old child has consumed a few tablets of a drug that were being taken by his mother on a regular basis. Following this the child develops gastric necrosis, acidosis, shock and hepatic necrosis. Which is the most likely drug?

- (a) Multivitamins
- (b) Calcium carbonate
- (c) Folic acid
- (d) Iron

98.

A newborn weighing 1.5 kg at birth presents at 6 hours of age with lethargy, weak and high pitched cry and difficulty in feeding. What is the next step in management?

- (a) Estimation of blood sugar
- (b) Estimation of serum calcium
- (c) Supplementary oxygen
- (d) Bedside electrocardiogram

99.

In a child with acute organophosphorus poisoning, which one of the following drugs will act as anti-sialogogue and peripheral parasympatholytic agent?

- (a) Carbamates
- (b) Atropine
- (c) Benzodiazepine
- (d) Pralidoxime

100.

A 6-year old child needs to undergo a central Catheter placement for total parental nutrition. The procedure is likely to evoke pain and anxiety. Which of the following is the most appropriate drug for sedation and analgesia in this child?

- (a) Chloral hydrate
- (b) Midazolam
- (c) Propofol
- (d) Ketamine

101.

Which one of the following is the drug of choice in a child presenting with supraventricular tachycardia?

- (a) Atropine
- (b) Lidocaine
- (c) Adenosine
- (d) Naloxone

102.

Which one of the following drugs is used in cardiopulmonary resuscitation for pulseless ventricular fibrillation?

- (a) Atropine
- (b) Adenosine
- (c) Lidocaine
- (d) Amiodarone

103.

Which one of the following is a sign of good attachment during breastfeeding?

- (a) The baby's nose is at the level of the nipple
- (b) The baby's chin touches the breast
- (c) Most of the nipple is in the mouth and the lower areola is visible
- (d) The baby's lower lip is inverted

104.

Which one of the following signs is NOT included as an indicator of a vigorous baby immediately after delivery of an infant born through meconium stained liquor?

- (a) Pink colour
- (b) Strong respiratory efforts
- (c) Good muscle tone
- (d) Active movements of the baby

105.

All are true for a Cephalohematoma in a newborn EXCEPT:

- (a) It is located over the parietal bones in the subcutaneous plane
- (b) It may be associated with hyperbilirubinemia
- (c) It increases in size in the first 12–24 hours
- (d) It can take 3–6 weeks to resolve

106.

Which of the following sick neonates can be started on "Minimal Enteral Feeding", if hemodynamically stable?

- (a) Septic neonate with sclerema
- (b) Neonate with necrotizing enterocolitis (NEC)
- (c) Neonate on mechanical ventilation
- (d) Symptomatic hypoglycaemia

107.

Which one of the following drugs is contraindicated in a mother who is breastfeeding her infant?

- (a) Bromocriptine
- (b) Chlorpromazine
- (c) Acyclovir
- (d) Morphine

108.

A term neonate presents with tachypnea on day 1 after birth. The chest X-ray reveals hyperexpanded lung fields, prominent vascular markings, and prominent interlobar fissure. Which of the following is the most probable diagnosis?

- (a) Congenital lobar emphysema
- (b) Diaphragmatic hernia
- (c) Transient tachypnea of the newborn
- (d) Tracheoesophageal fistula

109.

A pre-school boy can go upstairs on alternate feet and has also started copying a circle. How many blocks should he be able to build a tower with, without toppling over?

- (a) 5
- (b) 7
- (c) 9
- (d) More than 10

110.

Which one of the following drugs is the antidote for benzodiazepine poisoning?

- (a) Flumazenil
- (b) Atropine
- (c) Naloxone
- (d) Pralidoxime aldoxime methiodide

111.

A 3-year old child develops severe respiratory distress after inhalation of fumes arising from burning plastic. The child is started on supportive ventilation. Which one of the following antidotes needs to be given?

- (a) Hydroxycobalamin
- (b) Amylnitrate
- (c) Sodium nitrite
- (d) N-acetyl cysteine

112.

A child has an incurving of the little finger. What is this condition known as?

- (a) Camptodactyly
- (b) Brachydactyly
- (c) Partial cutaneous syndactyly
- (d) Clinodactyly

113.

A 4-week old infant presents with repeated episodes of non-bilious vomiting since 7 days. The infant seems active and hungry after the vomiting. Examination reveals an olive-shaped mass in the epigastrium. Which metabolic abnormality is expected in this infant?

- (a) Hyperchloremia
- (b) Metabolic alkalosis
- (c) Hyperkalemia
- (d) Hyponatramia

114.

Which one of the following is the correct dose and route of administration of hepatitis B vaccine in children?

- (a) 0.5 mL dose with 10 microgram of antigen subcutaneously
- (b) 0.5 mL dose with 10 microgram of antigen intramuscularly
- (c) 1 mL dose with 5 microgram of antigen subcutaneously
- (d) 1 mL dose with 5 microgram of antigen intramuscularly

Which one of the following statements is correct for approved acellular pertussis vaccine?

- (a) It contains at least 3 IU of inactivated pertussis toxin
- (b) It contains at least 3 pathogenic pertussis antigens
- (c) It's efficacy is superior to the whole cell pertussis vaccine
- (d) Presence of nonfimbrial protein is a mandatory component

116.

Which of the following is recommended in the follow up health visits of a child with Down

syndrome?

109.

- (a) Growth assessment twice a year in the first year and annually till 5 years
- (b) Annual auditory screening from 1 to 5 years
- (c) Screening for refractory error if visual impairment is suspected
- (d) Annual thyroid function test from birth to 2 years

117.

A 12 year old child presents with delayed puberty and delayed bone age. His growth records reveal that he was growing normally till 1 year of age, after which both his height and weight fell to below the third centile for age. Subsequently, he continued to grow below the third centile with normal height velocity. What is the most likely diagnosis?

- (a) Familial short stature
- (b) Constitutional growth delay
- (c) Growth hormone deficiency
- (d) Skeletal dysplasia

118.

According to the 'Integrated Management of Neonatal and Childhood Illnesses' (IMNCI) classification of young infants upto 2 months, which one of the following signs is NOT included in 'Possible Serious Bacterial Infection'

- (a) Fast breathing (50 breaths or more per minute)
- (b) Severe chest indrawing
- (c) Axillary temperature less than 36.5 °C
- (d) Movement only when stimulated or no movement at all

119.

Neonatal tetanus elimination in India is defined as less than one case per:

- (a) 100 live births per year
- (b) 1000 live births per year
- (c) 10000 live births per year
- (d) 100000 live births per year

120.

Which one of the following facilities has been established at district hospitals in India to strengthen the care of low birth weight babies and sick newborns?

- (a) Special Newborn Care Units (SNCU)
- (b) Newborn Treatment Units (NTU)
- (c) Newborn Stabilization Units (NSU)
- (d) Shishu Suraksha Units (SSU)

## Combined Medical Services Examination-2020 Paper-II

1.

Indications for fasciotomy in compartment syndrome include all EXCEPT:

- (a) Distal sensory disturbance
- (b) Compartment pressure > 30 mm Hg
- (c) Pain on passive movement of affected muscles
- (d) Palpable distal pulses

2.

Which one of the following statements is NOT correct regarding Necrotising Soft Tissue

infections?  
109.

- (a) Crepitus, skin blistering and focal skin gangrene are typical presenting features
- (b) They are monomicrobial in nature
- (c) Treatment consists of wide local excision and appropriate antibiotics
- (d) Tissue biopsy is required for culture and diagnosis

3.

Which type of surgery is laparoscopic cholecystectomy classified as?

- (a) Clean
- (b) Clean contaminated
- (c) Contaminated
- (d) Dirty

4.

A 22-year female has presented with a history of malaise, cough, alternating constipation and diarrhoea with intermittent abdominal pain for last 6 months. She also complains of abdominal distension for last 2 days. On examination her abdomen has a doughy feel along with an ill defined mass over the right lower quadrant. She is most likely suffering from:

- (a) Appendicular lump
- (b) Ileocaecal tuberculosis
- (c) Carcinoma caecum
- (d) Ovarian mass

5.

Consider the following statements regarding needle stick injuries:

1. Injured part should be washed under running water
2. Dominant index finger is the commonest site for needle stick injury
3. All needle stick injuries should be reported
4. Hepatitis/HIV testing should be done after needle stick injury

Which of the statements given above are correct?

- (a) 1, 2 and 4
- (b) 1, 2 and 3
- (c) 1, 3 and 4
- (d) 2, 3 and 4

Consider the following statements regarding claudication:

1. It is a marker for silent coronary disease
2. Structured exercise program ( 2 hours per week for 3 months) leads to improvement in symptoms
3. Diabetes mellitus increases the risk and severity of claudication
4. Beta blockers may exacerbate claudication

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

7.

A 50-year old lady underwent uneventful bariatric surgery for morbid obesity. On the third post operative day, she develops breathless and pulmonary embolism is suspected. The next investigation to confirm the diagnosis will be:

- (a) Echocardiography
- (b) Duplex venography
- (c) CT pulmonary angiography
- (d) MR angiography

8.

Medical management of thyrotoxic crisis includes all of the following EXCEPT:

- (a) IV fluids
- (b) IV propranolol
- (c) IV hydrocortisone
- (d) IV antibiotics

9.

A patient operated for a parotid gland tumour developed symptoms of sweating and erythema (flushing) over the region of surgical excision while eating. The probable diagnosis is:

- (a) Parotid gland fistula
- (b) Sialadenitis
- (c) Chronic wound infection
- (d) Frey's syndrome

10.

First line hormone therapy for post-menopausal woman with metastatic carcinoma breast is:

- (a) Tamoxifen
- (b) Ovarian suppression by surgery
- (c) Antiprogestins
- (d) Anastrozole

109.

All of the following are major subtypes of breast cancer based on Gene array analysis EXCEPT:

- (a) Luminal A and Luminal B
- (b) Triple negative
- (c) Her-2 receptor positive
- (d) Oestrogen receptor positive

12.

All of the following are sequelae of peptic ulcer surgery EXCEPT:

- (a) Bilious vomiting
- (b) Dumping syndrome
- (c) Diarrhoea
- (d) Increased appetite

13.

The Child-Turcotte-Pugh (CTP) score for quantifying the severity of chronic liver disease includes all variables EXCEPT:

- (a) Serum bilirubin
- (b) Serum albumin
- (c) Serum creatinine
- (d) INR (International Normalised Ratio)

14.

'Chain of Lakes' appearance due to sacculation with intervening short strictures of pancreatic duct is seen on:

- (a) ERCP
- (b) CECT abdomen
- (c) Plain X-ray abdomen
- (d) Ultrasonography

15.

Which one of the following statements is NOT correct regarding Pyogenic Liver Abscess?

- (a) Anorexia, fever, malaise and right upper quadrant abdominal discomfort are the most common presenting features
- (b) It is more common in elderly, diabetics and immunocompromised patients
- (c) Treatment is with oral antibiotics alone
- (d) *Streptococcus milleri* and *escherichia coli* are the most common causative organisms

16.

'Swiss cheese defects' are seen during laparoscopic repair of:

- (a) Ventral hernia
- (b) Inguinal hernia
- (c) Obturator hernia
- (d) Femoral hernia

109.

Which of the following are correct regarding splenic artery aneurysm?

1. Main arterial trunk is the common site
2. Palpable thrill can be felt
3. It is symptomless unless it ruptures

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

18.

Valentino's syndrome is:

- (a) Pain on per-vaginal examination in pelvic abscess
- (b) Pain over left shoulder in left hypochondriac collection
- (c) Pain over left groin in perirenal collection
- (d) Pain in right iliac fossa in perforated peptic ulcer

19.

Spontaneous bacterial peritonitis occurs due to:

- (a) duodenal stump blowout
- (b) peptic ulcer perforation
- (c) acute bacterial infection of ascites
- (d) infection via fallopian tubes

20.

Structure not forming boundaries of the "Triangle of doom" seen during laparoscopic inguinal hernia surgery dissection is:

- (a) Vas deferens
- (b) Inferior epigastric artery
- (c) Spermatic cord vessels
- (d) Peritoneum

21.

The term mid-line shift is associated with:

- (a) Head injury
- (b) Chest injury
- (c) Abdominal injury
- (d) Limb injury

22.

Which one of the following cranial nerves does NOT supply to the external ear?

- (a) Cranial nerve V
- (b) Cranial nerve VI

- (c) Cranial nerve VII
- (d) Cranial nerve IX

23.

Left Internal Mammary Artery (LIMA) has become the conduit of choice for Left Anterior Descending (LAD) artery during coronary artery bypass grafting because:

- (a) Long term patency rates are more than 98%
- (b) It is close to LAD
- (c) Atherosclerosis is never seen in this vessel
- (d) It is very easy to harvest

24.

A 50-year old male with significant smoking history presented in the surgical emergency with sudden severe breathlessness. Chest X-ray shows right sided Pneumothorax. The appropriate management requires:

- (a) Aspiration of air with 16-18 G cannula
- (b) Right chest drain of size 8-14 Fr
- (c) Oxygen by face mask
- (d) Mechanical ventilation

25.

Which one of the following statements regarding Felon is NOT correct?

- (a) There is infection of the finger tip between specialised fibrous septa
- (b) It is a painless condition
- (c) Incision and drainage is the treatment of choice
- (d) It is common in diabetics

26.

The most common site for osteosarcoma is:

- (a) Proximal femur
- (b) Distal femur
- (c) Proximal humerus
- (d) Distal humerus

27.

Rapid Sequence Induction is indicated in:

- (a) Emergency surgery for intestinal obstruction
- (b) Elective open hernia surgery
- (c) Cardiopulmonary bypass surgery
- (d) Elective laparoscopic surgery

28.

Which one of the following statements about Compartment Syndrome is NOT correct?

- (a) It is commonest in a closed fracture
- (b) Pain is on active movement but not on passive movement of muscles
- (c) Fasciotomy is the treatment of choice
- (d) Volkmann's Ischaemic contracture is a late complication

29.

Which one of the following is NOT the strength of ultrasound as a diagnostic modality?

- (a) No radiation
- (b) Short learning curve
- (c) Inexpensive
- (d) Allows dynamic studies to be done

30.

Which of the following statements regarding lymphoedema following breast cancer treatment are correct?

1. Incidence has decreased due to rarely combined therapy of axillary LN dissection and radiotherapy
2. Precipitating cause like LN metastasis is a major determinant
3. The condition is often painful
4. Oedematous limb is susceptible to bacterial infection

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 2, 3 and 4
- (c) 1, 3 and 4
- (d) 1, 2 and 4

31.

Which one of the following is NOT a risk factor for development of venous thrombosis in surgical patients?

- (a) Age > 60 years
- (b) Pregnancy
- (c) Obesity (BMI > 30 kg/m<sup>2</sup>)
- (d) Diabetes ( HbA1c > 7.5%)

32.

Which one of the following is NOT a complication of massive blood transfusion?

- (a) Coagulopathy
- (b) Hypocalcaemia
- (c) Hyperthermia
- (d) Hyperkalemia

33.

Stage III "Pressure sore" is full thickness skin loss extending:

- (a) into subcutaneous tissue but not through fascia
- (b) through subcutaneous tissue into fascia
- (c) through subcutaneous tissue into fascia and muscles
- (d) through subcutaneous tissue into fascia, muscles and bone

34.

During subclavian vein puncture in a surgical ward suddenly a patient developed severe breathlessness. On auscultation breath sound was absent and the ipsilateral chest was tympanic on percussion. The probable diagnosis is:

- (a) Iatrogenic pneumothorax
- (b) Introgenic hemothorax
- (c) Spontaneous pneumothorax
- (d) Tension pneumothorax

35.

Kohler's disease is avascular necrosis of :

- (a) Lunate
- (b) Capitellum of humerus
- (c) First metatarsal head
- (d) Navicular

36.

Which one of the following is NOT true of Pyoderma gangrenosum?

- (a) It is characterized by cutaneous ulceration with purple undermined edges
- (b) It is often secondary to heightened immunological reactivity from another disease process
- (c) Cultures often show Gram positive Staphylococci
- (d) Lesions generally respond to steroids

37.

Which of the following is NOT a tissue repair surgery for inguinal hernia repair?

- (a) Bassini's repair
- (b) Shouldice repair
- (c) Stoppa's repair
- (d) Desarda repair

38.

Which one of the following type of meshes is recommended for intraperitoneal use in abdominal wall hernia?

- (a) Light weight, porous meshes
- (b) Heavy weight, porous meshes
- (c) Absorbable meshes
- (d) Tissue separating meshes

39.

Which one of the following is NOT correct regarding MEN-1 syndrome?

- (a) It involves parathyroid glands
- (b) It involves pancreas
- (c) It involves pituitary gland
- (d) It involves pineal gland

40.

Which one of the following is NOT an electronic information site in surgery?

- (a) Pubmed
- (b) Embase
- (c) Cochrane library
- (d) National medical library

41.

Which one of the following statements regarding pre-conceptual counseling is NOT correct?

- (a) It is needed only in selected complicated pregnancies
- (b) It helps in early detection of risk factors
- (c) It helps in reducing maternal morbidity and mortality
- (d) It is a part of preventive medicine

42.

Consider the following statements regarding Non Stress Test (NST):

1. Reactive NST indicates a healthy fetus
2. NST is an observed association of fetal breathing with fetal movements
3. NST has a low false negative rate (< 1%) but high false positive rate (>50%)
4. Testing should be started at 20 weeks

Which of the statement(s) given above is/are correct?

- (a) 1 and 3
- (b) 2 only
- (c) 3 only
- (d) 1 and 4

43.

Which one of the following is a protective factor for endometrial hyperplasia?

- (a) Diabetes
- (b) Tamoxifen therapy
- (c) Multiparity
- (d) Delayed menopause

44.

A woman who is not breast feeding her newborn child is advised to use a contraceptive method by:

- (a) 3<sup>rd</sup> postpartum week
- (b) 6<sup>th</sup> postpartum week
- (c) 3<sup>rd</sup> postpartum month
- (d) 6<sup>th</sup> postpartum month

Pearl index for contraceptive effectiveness is calculated in terms of which of the following?

1. Pregnancy rate
2. Abortion rate
3. Hundred woman years
4. Thousand woman years

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 and 3
- (c) 1, 2 and 4
- (d) 1 and 3

46.

Indications for removal of IUDs are all EXCEPT:

- (a) Perforation of uterus
- (b) Cyclical menstrual bleeding
- (c) Flaring up of salpingitis
- (d) Pregnancy with IUD

47.

Contraindications for insertion of IUDs are all EXCEPT:

- (a) Suspected pregnancy
- (b) Trophoblastic disease
- (c) Severe dysmenorrhea
- (d) During cesarean section

48.

Which one of the following is NOT a contraindication for use of Mini pill?

- (a) Pregnancy
- (b) Breast feeding
- (c) Thromboembolic disease
- (d) History of breast cancer

49.

Which one of the following is the most commonly used surgical method/technique of female sterilization as recommended by Government of India?

- (a) Uchida technique
- (b) Irving method
- (c) Pomeroy's method
- (d) Madlener technique

Which of the following is/are required for a registered medical practitioner to qualify for performing Medical Termination of Pregnancy (MTP), as per revised rules of MTP Act?

1. Certified for assisting at least 15 MTP in an authorized centre
2. Diploma or degree in Obstetrics and Gynaecology
3. House surgeon training for 3 months in Obstetrics and Gynaecology
4. Certified training for 6 months in laparoscopic surgeries

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 1, 2 and 4

51.

Which one of the following is NOT a support of uterus, preventing its descent?

- (a) Endopelvic fascia
- (b) Mackenrodt's ligament
- (c) Inguinal ligament
- (d) Pubocervical ligament

52.

As per ICMR guidelines, which one of the following statements is true regarding effects of COVID-19 on fetus according to current evidence?

- (a) There is increased risk of early pregnancy loss
- (b) COVID-19 virus is not teratogenic
- (c) COVID-19 virus infection is an indication of MTP
- (d) There is increased risk of fetal growth restriction

53.

As per ICMR guidelines, which one of the following statements is true regarding COVID-19 infection in pregnancy?

- (a) Covid-19 pneumonia in pregnancy is more severe with poor recovery
- (b) Pregnant women with heart disease are at higher risk
- (c) Vaginal secretions always test positive for COVID-19 in pregnancy
- (d) COVID-19 virus is secreted in breast milk

54.

Which one of the following is NOT a method of management of Deep Transverse Arrest with the living fetus?

- (a) Caesarean section
- (b) Delivery by ventouse
- (c) Delivery by application of forceps to the unrotated head
- (d) Manual rotation and application of forceps

Successful version of breech presentation is likely in case all of the following EXCEPT:

- (a) Breech with extended legs
- (b) Complete breech with sacroanterior position
- (c) Non engaged breech
- (d) Adequate amniotic fluid

56.

Implantation of a fertilised ovum occurs on which day following fertilisation?

- (a) Day 6
- (b) Day 10
- (c) Day 14
- (d) Day 20

57.

During total abdominal hysterectomy the ureter is likely to undergo injury or ligation during the following steps EXCEPT:

- (a) During division and ligation of the round ligaments
- (b) During division and ligation of infundibulopelvic ligaments
- (c) During division and ligation of mackenrodt's and uterosacral ligaments
- (d) At the vaginal angles while incising the vagina to remove the cervix with the uterus

58.

The net effect of antenatal care has been the following EXCEPT:

- (a) Reduction in maternal mortality
- (b) Reduction in perinatal mortality
- (c) Reduction in the incidence of institutional delivery
- (d) Reduction in maternal morbidity

59.

Which one of the following is NOT a component of active phase in the partograph?

- (a) Acceleration phase
- (b) Phase of maximum slope
- (c) Phase of deceleration
- (d) Phase of expulsion

60.

From medicolegal point of view which one of the following is NOT a sign of previous child birth?

- (a) Perineum is lax and there is evidence of scarring
- (b) Introitus is gaping and there is presence of carunculae myrtiformis
- (c) Abdomen is lax and loose with striae and linea alba
- (d) Conical cervix with round external os

The components of partograph are all EXCEPT:

- (a) Time
- (b) Fetal heart rate
- (c) Maternal respiratory rate
- (d) Maternal urine analysis

62.

Which of the following information are provided by partograph?

- 1. Colour of liquor
- 2. Uterine contractions with duration and frequency
- 3. Dilatation of cervix

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

63.

Intraoperative recognition of ureter is by which of the following features?

- 1. Transparent tubular appearance
- 2. Pale glistening appearance
- 3. Longitudinal vessels on surface
- 4. Circumferential vessels on surface

Select the correct answer using the code given below:

- (a) 1 and 3
- (b) 2 and 4
- (c) 2 and 3
- (d) 1 and 4

64.

Hysterosalpingography (HSG) is least helpful in detecting which of the following?

- (a) Tubal patency
- (b) Pelvic adhesions
- (c) Asherman syndrome
- (d) Congenital uterine anomaly

Which of the following are characteristics of Trichomonas vaginitis?

1. Presence of greenish frothy discharge
2. Vaginal pH > 4.5
3. Presence of clue cells in microscopic examination
4. Strawberry spots on the vaginal mucosa

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 2, 3 and 4
- (d) 1, 3 and 4

66.

Tumor marker of epithelial ovarian carcinoma is:

- (a) Ca.125
- (b) Alpha fetoprotein
- (c) Beta HCG
- (d) LDH

67.

The most common site of cervical cancer is:

- (a) Endocervix
- (b) Ectocervix
- (c) Transformation zone
- (d) Isthmus

68.

The placenta synthesizes all EXCEPT:

- (a) Oestriol
- (b) Corticotrophin releasing hormone
- (c) PAPP-A (Pregnancy Associated Plasma Protein A)
- (d) Dehydroepiandrosterone

69.

Withdrawal bleeding following administration of progesterone in a case of secondary amenorrhea indicates all EXCEPT:

- (a) Absence of pregnancy
- (b) Production endogenous estrogen
- (c) Endometrium is responsive to estrogen
- (d) Defect in pituitary gland

70.

Monilial vaginitis is commonly associated with all EXCEPT:

- (a) Prolonged antibiotic therapy
- (b) Diabetes Mellitus
- (c) Treatment of malaria with chloroquine
- (d) Pregnancy

Which one of the following is NOT a risk factor for the development of placenta previa?

- (a) Maternal age
- (b) Smoking
- (c) Previous caesarean section
- (d) Maternal anaemia

72.

Common clinical presentations of moderate to severe abruption are all EXCEPT:

- (a) Uterine tenderness
- (b) Fetal distress
- (c) Unexplained pre term labour
- (d) Prolonged labour

73.

Common trisomies resulting in spontaneous abortion are all EXCEPT:

- (a) Trisomy 21
- (b) Trisomy 18
- (c) Trisomy 16
- (d) Trisomy 1

74.

The initial prevention strategy for antiphospholipid syndrome will be:

1. Steroids
2. Heparin
3. Low dose aspirin
4. Progesterone support

Which of the above is/are correct?

- (a) 2 and 3
- (b) 3 and 4
- (c) 3 only
- (d) 1 and 4

75.

Diagnostic criteria for PCOD are:

1. Oligo/amenorrhoea
2. Hyperandrogenism
3. Polycystic ovaries on ultrasound

Which of the above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Which of the following symptoms can be associated with pelvic organ prolapse?

1. Difficulty in passing urine
2. Incomplete evacuation of urine
3. Urgency and frequency

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

77.

A 30 year old lady, P<sub>2</sub>L<sub>2</sub> presents with painful unilateral swelling in vulva for 3 days. Which of the following statements are true regarding the above case?

1. Bartholin's abscess may be the likely diagnosis
2. It is to be managed by marsupialisation
3. Gonococcus is the most common pathogenic organism

Select the correct answer using the code given below:

- (a) 1 and 3 only
- (b) 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

78.

Which one of the following is NOT a sign of separation of placenta?

- (a) Uterus becomes globular, firm and ballotable
- (b) The fundal height reduces further
- (c) Slight bulging in the suprapubic region
- (d) Apparent lengthening of the cord with slight gush of vaginal bleeding

79.

Consider the following regarding examination of a rape victim:

1. Emergency pill is provided
2. Internal examination must be performed
3. HIV testing is done

Which of the above statements is/are correct?

- (a) 1 and 3 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 3 only

Consider the following cardinal movements of mechanism of normal labor:

1. Engagement
2. Internal rotation
3. Flexion
4. Restitution
5. Crowning
6. External rotation

What is the correct sequence of movements in labor in occipito-lateral position?

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

81.

Which of the following represent the properties of an ideal disinfectant?

1. It is broad spectrum
2. It is fast acting
3. It is non-toxic

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

82.

Which of the following measures can help reduce the risk of systemic hypertension?

1. Reduction in dietary intake of common salt
2. Controlling weight for age
3. Increasing potassium rich foods in the diet

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Keeping biological determinants in perspective, consider the following statements:

1. Presence of a normal karyotype is the first requisite for human health
2. Genetic screening can play an important role in prevention of wide spectrum of diseases
3. If an individual is allowed to live in healthy relationship with the environment, the person's genetic potentialities can transform into phenotypic realities

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 1, 2 and 3
- (d) 2 and 3 only

84.

NITI Aayog has the following roles EXCEPT:

- (a) It provides critical directional and strategic input in the development process
- (b) It provides relevant technical advice with focus on technology upgradation
- (c) It focuses on capacity building
- (d) It focuses on the development of "Referral Service Complex"

85.

Poor hand hygiene of a mess worker in a university college mess led to Hepatitis A cases in the hostel inmates. What type of epidemic will this exposure present with?

1. Propagated
2. Common source-continuous exposure
3. Common source-point exposure

Select the correct answer using the code given below:

- (a) 1 and 2
- (b) 1 and 3
- (c) 1 only
- (d) 2 only

What is the specificity of sputum microscopy in detection of Pulmonary Tuberculosis (PTB) as per the information given below?

Sputum microscopy	PTB		Total
	Present	Absent	
Positive	270	20	290
Negative	30	180	210
Total	300	200	500

- (a) 10 %
- (b) 36 %
- (c) 90 %
- (d) 94 %

87.

In a cohort of 500 women attending antenatal clinic, 70 % had ultrasonography (USG). This cohort was followed up at delivery. Of the women who had USG, 70 delivered low birth weight (LBW) babies; whereas of the women, who did not undergo USG, 50 delivered LBW babies. The incidence of LBW babies among women who had USG is:

- (a) 10 %
- (b) 15 %
- (c) 20 %
- (d) 25 %

88.

Major source of vitamin K<sub>1</sub> is:

- (a) Fresh dark green vegetables
- (b) Exposure of body to sunlight
- (c) Citrus fruits
- (d) Foods rich in polyunsaturated fatty acids

89.

Which one of the following is NOT a function of Epidemiology?

- (a) To study historically the rise and fall of disease in the population
- (b) Searching for the causes and risk factor
- (c) Identifying syndromes
- (d) Making clinical diagnosis

90.

Which one of the following is NOT a contagious disease?

- (a) Malaria
- (b) Scabies
- (c) Trachoma
- (d) Leprosy

In primary immune response, how much more antigenic dose is required to induce IgG antibodies as against the induction of IgM antibodies?

- (a) 10 times more
- (b) 25 times more
- (c) 50 times more
- (d) 100 times more

92.

Pentavalent vaccine provides protection against which of the following diseases?

- (a) Diphtheria, Pertussis, Tuberculosis, Measles and Hepatitis B
- (b) Diphtheria, Pertussis, Measles, Hepatitis B and Hib
- (c) Diphtheria, Pertussis, Tetanus, Hepatitis B and Rubella
- (d) Diphtheria, Pertussis, Tetanus, Hepatitis B and Hib

93.

Consider the following data for a country: Population in

0-14 years of age – 391,558,367

Population between 15–64 years of age – 856,076,200

Population above 65 years of age – 71,943,390

What shall be the dependency ratio of this country?

- (a) 42.4 %
- (b) 54.1 %
- (c) 66.2 %
- (d) 78.6 %

94.

Which one of the following statements regarding Rabies Immunoglobulin is NOT true?

- (a) It should be administered only once as soon as possible after the initiation of post exposure prophylaxis
- (b) It should be administered all into or around the wound sites
- (c) There is no scientific ground for performing a skin test prior to administering equine immunoglobulin
- (d) It can be administered till 15 days after the first dose of anti-rabies vaccine

95.

All of the following are true about Bedaquiline (BDQ) EXCEPT:

- (a) It specifically targets mycobacterial ATP synthase
- (b) It is a bacteriostatic drug
- (c) It has extended half life
- (d) It has high volume of tissue distribution

96.

Visual inspection based screening test with 5 % acetic acid is used for the screening of which one of the following cancers?

- (a) Lung cancer
- (b) Cervix cancer
- (c) Oral cancer
- (d) Breast cancer

Predictive accuracy of a screening test depends on the following EXCEPT:

- (a) Disease prevalence
- (b) Disease incidence
- (c) Sensitivity of screening test
- (d) Specificity of screening test

98.

How much of Zinc supplement is recommended by WHO and UNICEF for infants less than 6 months of age after an episode of acute diarrhoea?

- (a) 20 mg per day for 10–14 days
- (b) 10 mg per day for 10–14 days
- (c) 5 mg per day for 7 days
- (d) 6 mg per day for 7 days

99.

Which one of the following statements regarding sequential administration of Inactivated Polio Vaccine (IPV) and Oral Polio Vaccine (OPV) is NOT correct?

- (a) It will be cost effective in developing countries for Polio prevention
- (b) The combined schedules of IPV and OPV appear to reduce or prevent Vaccine Associated Paralytic Polio (VAPP)
- (c) Intestinal mucosal immunity is lost due to IPV administration
- (d) IPV and OPV together may optimize both the humoral and mucosal immunogenicity of Polio vaccine

100.

What is the recommended dose regimen of Vitamin A for the treatment of early stages of Xerophthalmia?

- (a) Single massive dose of 2 lac International Units (IU)
- (b) 2 lac IU on two successive days
- (c) 2 doses of 1 lac IU in two successive days
- (d) 2 doses of 1 lac IU at a gap of one week

101.

Which is the most specific causative agent of Rabies?

- (a) Lyssavirus serotype 1
- (b) Lyssavirus serotype 2
- (c) Lyssavirus serotype 3
- (d) Lyssavirus serotype 4

102.

Which one of the following is the antibiotic of choice for the prevention of Rheumatic heart disease?

- (a) Benzathine Benzyl Penicillin
- (b) Procaine Penicillin
- (c) Doxycycline
- (d) Ciprofloxacin

All of the following are global targets for WHO Global Action Plan (2013–2020) for Prevention and Control of NCDs, EXCEPT:

- (a) A 10 % relative reduction in risk of premature mortality from cardiovascular diseases, cancer, diabetes and chronic respiratory diseases
- (b) A 10 % relative reduction in prevalence of insufficient physical activity
- (c) A 10 % relative reduction in mean population intake of salt/sodium
- (d) At least 10 % relative reduction in the harmful use of alcohol

104.

Under the Employees State Insurance (ESI) Scheme, extended sickness benefit is provided in which of the following infectious diseases?

- 1. Tuberculosis
- 2. Leprosy
- 3. Chronic empyema

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

105.

In the context of NCD prevention and control in India, the extent of relative reduction in household use of solid fuels as a primary source of energy for cooking by 2025 is targeted at:

- (a) 30 %
- (b) 40 %
- (c) 50 %
- (d) 60 %

106.

Consider the following criteria which may indicate elimination of lymphatic filariasis in a community:

- 1. When lymphatic filariasis ceases to be a public health problem in the community
- 2. When the number of microfilaria carriers declines to 1.5 % within the community
- 3. When children born in the community after the initiation of elimination programme are free from circulating antigenaemia

Which of the criteria stated above hold true?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Hold over time of cold chain equipment depends on all of the following factors EXCEPT:

- (a) Ambient temperature
- (b) Quantity of vaccines kept
- (c) Types of vaccines kept
- (d) Condition of icepack lining

108.

Which of the following statements regarding Physical Quality of Life Index (PQLI) are correct?

- 1. It consolidates infant mortality, life expectancy at age one, and literacy
- 2. It does not measure economic growth but measures the result of economic policies
- 3. For each component, the performance of individual countries is placed on a scale of 0-100

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

109.

Disability-adjusted life years (DALYs) include:

- (a) Years of lost life (YLL)
- (b) Years lost to disability (YLD)
- (c) Both YLL and YLD
- (d) Neither YLL nor YLD

110.

Which of the following are health care delivery indicators?

- 1. Population per trained birth attendant
- 2. Population per health/sub centre
- 3. Doctor-nurse ratio

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Which of the following key action areas are incorporated in the Ottawa Charter?

1. Building healthy public policy
2. Strengthening community action for health
3. Reorienting health services

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

112.

Under Chapter XXI of the 10<sup>th</sup> revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10), lifestyle-related problems fall under which of the following code range?

- (a) U 50.0 – U 50.5
- (b) U 10.0 – U 10.5
- (c) Z 72.0 – Z 72.5
- (d) Z 10.0 – Z 10.5

113.

Which of the following diseases are spread by airborne transmission?

1. Influenza
2. Chicken pox
3. Q-fever
4. Psittacosis

Select the correct answer using the code given below:

- (a) 1 and 3 only
- (b) 1 and 4 only
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

114.

DASH diet plan is advocated in the control of which one of the following diseases?

- (a) Cancer
- (b) Chronic Obstructive Pulmonary Disease
- (c) Hypertension
- (d) Rheumatic heart disease

115.

Endemic ascitis occurs due to:

- (a) Naturally occurring toxin
- (b) Bacterial toxin
- (c) Fungal toxin
- (d) Viral toxin

The presence of which of the following bacteria in drinking water is an important confirmatory evidence of recent faecal pollution of water?

- (a) E. coli
- (b) Streptococci
- (c) Clostridium
- (d) Klebsiella

117.

With regard to the Goals, Milestones and Targets for the Global Technical Strategy for Malaria (2016-2030), consider the following statements:

1. Compared to 2015, the target is to reduce the malaria mortality rates globally by at least 90% by year 2030
2. Compared to 2015, the target is to reduce malaria case incidence by 90% by year 2030
3. Eliminate malaria from at least 35 countries, where malaria was transmitted in 2015, by year 2030

Which of the above statements hold true?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

118.

Which one of the following IUDs is associated with a low pregnancy rate (0.2 per 100), less number of ectopic pregnancies and lower menstrual blood loss?

- (a) Cu T-380A
- (b) ML-Cu 375
- (c) Progestasert
- (d) LNG-20(Mirena)

119.

The incidence of diarrhoea is highest among infants in the age group of 6–11 months due to all of the following reasons EXCEPT:

- (a) Declining level of maternal antibodies
- (b) Introduction of foods which may be contaminated
- (c) Eruption of teeth
- (d) Direct contact with human or animal faeces

115.

In the context of “Anti-Malaria Month Campaign”, consider the following statements:

1. It is observed every year in the month of June
2. It is planned during the Monsoon season
3. It aims to enhance the level of community awareness and participation

Select the correct answer using the code given below:

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 only
- (d) 1 and 3