

# Common - Medicine

Test Booklet Serial No.....

Series No. : ●

Number of Questions : 80

Time Allowed : 1 hour 20 minutes

Booklet Contains Pages : 24

Max. Marks : 320

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1. Each question carries **4 marks**. For each correct response the candidate will get 4 marks. For each incorrect answer, **1 mark** will be deducted from the total score.
2. Use only **BLUE / BLACK BALL POINT PEN** for darkening the appropriate circle completely.  
For example :   B  C  D
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9. Count the pages of the booklet on receipt. If any defect found in the booklet ask the invigilator to provide a fresh copy.

1. The most common CNS complication of mumps is :-
  - (A) Encephalitis
  - (B) Aseptic meningitis
  - (C) Gullain barre syndrome
  - (D) Cerebellar ataxia
  
2. The gender of human fetus is distinguishable at gestational age :-
  - (A) 8 weeks
  - (B) 10 weeks
  - (C) 12 weeks
  - (D) 16 weeks
  
3. An infant starts staring at their own hand at :-
  - (A) 2 months
  - (B) 3 months
  - (C) 4 months
  - (D) 6 months
  
4. Endomorphic somatotype of physical pattern is characterized by :-
  - (A) Stocky built and abundant soft tissue
  - (B) Stocky built and abundant bony tissue
  - (C) Stocky built and less muscle mass
  - (D) Light bone structure and small body mass

5. Congenital varicella syndrome can occur if mother gets chickenpox at :-
- (A) 7-20 weeks of gestation
  - (B) 22-26 weeks of gestation
  - (C) 28-32 weeks of gestation
  - (D) 36-40 weeks of gestation
6. True statement for Pneumocystis Jervueci :-
- (A) Is an obligate intracellular organism
  - (B) Can cause disease outside respiratory system
  - (C) Can have normal chest x-ray with prominent clinical signs
  - (D) May be usually diagnosed by serology
7. A couple brings their 7 year old daughter to clinic concerned about her development. She has a history speech, ataxia with a broad based gait and also has been diagnosed with epilepsy. She has a strange affect characterized by inappropriate laughter. Her karyotype is normal. What is the most likely diagnosis in this patient ?
- (A) Alice in Wonderland syndrome
  - (B) Angelman syndrome
  - (C) Asperger's syndrome
  - (D) Prader-Will syndrome
8. Causes of dilated pupils include :-
- (A) Argyll Robertson pupil
  - (B) Ethylene glycol poisoning
  - (C) Myotonic dystrophy
  - (D) Organophosphate poisoning



9. Which of the following statements regarding Phenylketonuria is correct ?
- (A) Serum tyrosine levels are typically low
  - (B) Urinary phenylalanine metabolites are typically high
  - (C) Mental retardation does not occur in the patient who adheres to a phenylalanine free diet
  - (D) Inheritance is X-linked recessive
10. A 2 years old child weighing 8 Kg presents with pallor and poor appetite. His Hb is 6 gm/dl, MCV is 65, RDW is 12% and RBC count is 6 million/cumm. P/S shows Microcytic hypochromic blood picture. What is the most likely diagnosis ?
- (A) Beta Thalassemia trait
  - (B) Sideroblastic anemia
  - (C) Iron deficiency anemia
  - (D) Lead toxicity
11. A well breast fed baby at 36 hours of life has been found to have jaundice. His serum bilirubin level is 16 mg/dl, the blood group of mother and baby are O-negative and A-negative. The blood peripheral smear shows spherocytes and reticulocytes. What is the likely diagnosis ?
- (A) Hereditary spherocytosis
  - (B) ABO incompatibility
  - (C) Breast milk associated jaundice
  - (D) Alpha Thalassemia

12. A 2 week old neonate presented with hypotonia, lethargy and poor feeding. He was born at term with 3 kg weight and had no feeding problem till 5 days. On admission: he was found to be severely hypotonic, lethargic with poor neonatal reflexes and needed mechanical ventilation. His Hb was 12 gm, WBC count 12,000/cumm, platelets normal, blood glucose 75 mg/dl. Lactate 206 mmol/l, CSF lactate and ammonia normal. MRI head was normal but the EEG showed epileptic encephalopathy. What is the likely diagnosis ?
- (A) Non Ketotic hyperglycinemia
  - (B) Paroxysmal disorders
  - (C) Organic acidemia
  - (D) Fatty acid oxidation disorders
13. The minimum bed strength of a special care newborn unit in a district hospital with 3000 deliveries per year and for referral admission of outborn babies under Govt. of India's facility based newborn care program is :-
- (A) 9
  - (B) 12
  - (C) 15
  - (D) 20
14. Which of the following vaccine is developed by reverse vaccinology technique ?
- (A) Human papilloma virus vaccine
  - (B) Meningococcal B vaccine
  - (C) Varicella Zoster vaccine
  - (D) Dengue vaccine

15. Which of the following statement is correct regarding prevention of parent to child transmission of HIV in highly endemic states of India as per NACO guidelines ?
- (A) One dose of Nevirapine to mother at the onset of labour and one dose of Nevirapine to newborn
  - (B) Mothers should be treated with Zidovudine and Nevirapine from 14 weeks of pregnancy till delivery
  - (C) Mother should be treated with three drug ART starting from 14 weeks till mother to child risk period
  - (D) Treat mother with triple drug ART starting from 14 weeks and continue till the risk period of mother to child transmission with Nevirapine for 6 weeks to baby if on exclusive breast feed
16. Critical level of Sound pressure level in neonatal intensive care unit should not exceed :-
- (A) 30 db
  - (B) 35 db
  - (C) 40 db
  - (D) 45 db
17. WHO treatment formula "F-100" for treatment of hospitalized patients with severe acute malnutrition has protein of gm/100 ml :-
- (A) 0.9
  - (B) 1.5
  - (C) 2.0
  - (D) 2.9

18. An atrioventricular septal defect is different from an ostium secundum atrial septal defect because the atrio ventricular septal defect :-
- (A) Does not manifest heart failure
  - (B) Does not create volume overload
  - (C) Has the same ECG findings
  - (D) Produces an early tendency for pulmonary hypertension
19. Excess of Vitamin D can cause :-
- (A) Neuropathy
  - (B) Pseudotumour cerebri
  - (C) Oxaluria
  - (D) Hypercalcemia
20. The length of the "tip to the vocal cord guide" of an endotracheal tube size of 3 is :-
- (A) 2.0 mm
  - (B) 2.2 mm
  - (C) 2.4 mm
  - (D) 2.6 mm
21. Myocardial contractility is mainly determined by :-
- (A) Extracellular  $ca^{++}$  in resting state
  - (B) Fast inward current through L-type  $ca^{++}$  channels
  - (C) Absolute quantity of  $ca^{++}$  crossing sarcolemma
  - (D) Induced  $ca^{++}$  release from sarcoplasmic reticulum



22. Loud  $P_2$  is best defined as :-
- (A)  $P_2$  heard in mitral area
  - (B)  $P_2$  heard in left parasternal area in end inspiration
  - (C)  $P_2$  heard in right 2<sup>nd</sup> intercostal space
  - (D)  $P_2$  heard in left parasternal area in end expiration
23. On ECG Left main Coronary artery disease is denoted by :-
- (A) Inferior ST depression, ST elevation in  $avR > V1$
  - (B) Anterior ST depression, ST elevation in  $V1 > avR$
  - (C) Anterior ST depression, ST elevation in  $avR > V1$
  - (D) Inferior ST depression, ST elevation in  $V1 > avR$
24. Restrictive diastolic filling pattern on echo is denoted by :-
- (A)  $E/A > 1.5$ ,  $\uparrow$  deceleration time,  $\uparrow$  LAP
  - (B)  $E/A < 1$ ,  $\downarrow$  deceleration time,  $\uparrow$  LAP
  - (C)  $E/A > 1.5$ ,  $\downarrow$  deceleration time,  $\uparrow$  LAP
  - (D)  $E/A > 1.5$ ,  $\uparrow$  deceleration time,  $\downarrow$  LAP
25. Drug of Choice for wide complex tachyarrhythmia of unknown origin is :-
- (A) Quinidine
  - (B) Flecainide
  - (C) Sotalol
  - (D) Procainamide



26. Refractory hypertension in a middle aged women may be controlled by addition of :-
- (A) Clonidine
  - (B) Torsemide
  - (C) Cilnidipine
  - (D) Spironolactone
27. In cases of atherosclerotic renal artery stenosis response to vascular repair is best indicated by :-
- (A) Gadolinium contrast MRA showing proximal renal artery stenosis
  - (B) Presence of collateral vessels to the ischaemic kidney on angiography
  - (C) Lateralizing renal vein renin ratio of  $> 1.5$
  - (D) Significant pressure gradient across the renal artery lesion
28. Treatment of obstructive sleep apnoea is useful when Epworth sleepiness score is :-
- (A)  $> 8$
  - (B)  $> 10$
  - (C)  $> 12$
  - (D)  $> 15$
29. In ventilation associated pneumonia the most sensitive component of improvement in CPIS is :-
- (A) Leucocytosis reduction
  - (B) Fever below  $38.9^{\circ}\text{C}$
  - (C) Chest radiography clearing
  - (D) Improvement in oxygenation ( $\text{PaO}_2/\text{FiO}_2 > 250$ )

30. Shadows in upper lobes on X-ray chest are not seen in :-
- (A) Sarcoidosis
  - (B) Nonspecific Interstitial pneumonia (NSIP)
  - (C) Silicosis
  - (D) ABPA
31. Steroid resistant asthma is defined as failure to respond to :-
- (A) 40 mg/day oral prednisolone for 2 weeks
  - (B) 60 mg/day oral prednisolone for 1 week
  - (C) 12 mg/day oral dexamethasone for 2 weeks
  - (D) 400 mg/day oral hydrocortisone for 1 week
32. Mixed acid based disorder on ABG is not denoted by :-
- (A)  $\text{PCO}_2$  &  $\text{HCO}_3^-$  moving in opposite directions
  - (B) Respiratory disorder with  $\text{HCO}_3^- < 15 \text{ mmol/L}$  or  $> 35 \text{ mmol/L}$
  - (C) Metabolic disorder with maximum compensation having last 2 digits of PH not equal to  $\text{PCO}_2$
  - (D) Metabolic disorder with  $\text{HCO}_3^- < 15 \text{ mmol/L}$  or  $> 35 \text{ mmol/L}$
33. Lung volumes can be normal in the following ILD on x-ray chest :-
- (A) Sarcoidosis
  - (B) BOOP
  - (C) Desquamative Interstitial pneumonia
  - (D) Berylliosis

34. Urinary antigen is useful in diagnosis of :-
- (A) Legionella pneumonia
  - (B) Mycoplasma pneumonia
  - (C) Coxiella burnetii pneumonia
  - (D) Burkholderia pseudomallei pneumonia
35. Type III respiratory failure is treated by all except :-
- (A) Invasive high pressure support ventilation
  - (B) Non -invasive positive pressure support ventilation
  - (C) Frequent changes of posture
  - (D) Control of abdominal/Incisional pain
36. In spontaneous breathing trial of mechanically ventilated patients which of the following is not true :-
- (A) CPAP of 5 cm H<sub>2</sub>O can be used
  - (B) Open T-piece breathing system can be used
  - (C) Trial can be given for 30-120 mins
  - (D) Should be done when PEEP is < 10 cm H<sub>2</sub>O
37. Mortality in ARDS can be predicted by :-
- (A) Extent of hypoxemia
  - (B) Level of PEEP used in mechanical ventilation
  - (C) Extent of alveolar infiltrates on chest X-ray
  - (D) Age > 60 yrs and sepsis

38. ICU admission by severe community acquired pneumonia score (SCAP) is determined by one of the following alone :-
- (A)  $\text{PaO}_2 < 54$  or  $\text{PaO}_2 / \text{Fio} < 250$  mm Hg
  - (B) Arterial PH  $< 7.3$
  - (C) Confusion
  - (D) Respiratory rate  $> 30/\text{min}$
39. Pleural fluid eosinophilia is rarely seen in :-
- (A) Benign asbestosis
  - (B) Pulmonary embolism
  - (C) Hodgkin's lymphoma
  - (D) Sarcoid pleurisy
40. Zollinger Ellison syndrome is diagnosed by all EXCEPT :-
- (A) Fasting gastrin levels of 75-150 pg/ml
  - (B) Duodenal ulcer in second part of duodenum
  - (C) Diarrhoea with acid peptic disease
  - (D) Gastrinomas of duodenal wall
41. Type B Gastritis is characterized by all EXCEPT :-
- (A) Malt lymphoma
  - (B) Parietal cell antibody
  - (C) H pylori dependent
  - (D) Present almost universally in  $> 70$  yrs age



42. Collagenous colitis is characterized by all EXCEPT :-
- (A) Female to male ratio 9:1
  - (B) Association with rheumatoid arthritis
  - (C) Association with celiac disease
  - (D) Intra epithelial lymphocytes
43. Co-infection with hepatitis B and hepatitis C virus can have all EXCEPT :-
- (A) Prolonged HBSAg antigenemia
  - (B) Lower peak serum transaminase levels
  - (C) Increased risk of fulminant hepatic failure
  - (D) Higher rate of cirrhosis
44. Early virological response to treatment of chronic HCV infection is defined as :-
- (A) 12 weeks HCV RNA fall by  $2\text{-log}_{10}$  drop
  - (B) 6 weeks HCV RNA fall by  $2\text{-log}_{10}$  drop
  - (C) 4 weeks HCV RNA fall by  $2\text{-log}_{10}$  drop
  - (D) 6 weeks HCV RNA fall to undetectable levels
45. Which of the following is not true for porphyria cutanea tarda :-
- (A) 40% have gene for Haemochromatosis
  - (B) 50% have associated hepatitis C
  - (C) May be associated with estrogen medication
  - (D) Hyper pigmentation of trunk and arms

46. An exclusive feature of type I renal tubular acidosis is :-
- (A) Short stature
  - (B) Urinary potassium wasting
  - (C) Hypercalciuria
  - (D) Osteomalacia
47. Treatment for class V lupus Nephritis is :-
- (A) Steroids + pulse cyclophosphamide
  - (B) Steroids + Azathioprine
  - (C) Mycophenolate mofetil with/without steroids
  - (D) Tacrolimus + cyclophosphamide
48. Hepatorenal syndrome is diagnosed by :-
- (A) S creatinine  $> 2.5$  mg with liver disease
  - (B)  $\uparrow$  BUN and urinary sodium of  $< 10$  mmol/L
  - (C)  $\uparrow$  S creatinine and urinary sodium of  $> 10$  mmol/L
  - (D) Creatinine clearance of  $< 40$  ml/min and urinary sodium of  $< 10$  mmol/L
49. IgA nephropathy is not seen in :-
- (A) Chronic liver disease with cirrhosis
  - (B) Dermatitis herpetiformis
  - (C) Sjogren's syndrome
  - (D) Microscopic polyangiitis

50. Pathology of HIV nephropathy is usually :-
- (A) Membranous glomerulonephritis
  - (B) Focal segmental glomerulosclerosis
  - (C) Mesangioproliferative glomerulonephritis
  - (D) Membranoproliferative glomerulonephritis
51. Truncal sensory loss in 'bathing trunk' distribution is a feature of :-
- (A) Tangier's disease
  - (B) Familial amyloid neuropathy
  - (C) Refsum disease
  - (D) Porphyric neuropathy
52. Macular sparing hemianopia is a feature of lesions of :-
- (A) Optic peduncle
  - (B) Meyer's loop in temporal lobe
  - (C) Fibres in lateral geniculate body
  - (D) Anterior visual cortex
53. Internuclear ophthalmoplegia is characterized by all except :-
- (A) Failure of adducting movements of eye on attempted lateral gaze to opposite side
  - (B) Lesions of medial longitudinal fasciculus on the same side
  - (C) Lesion of medial longitudinal fasciculus and or abducens nucleus on opposite side
  - (D) Adduction of eye is normal during convergence gaze

54. Lambert Eaton myasthenic syndrome is not characterized by :-
- (A) Proximal myopathy of lower limbs
  - (B) Absent deep tendon reflexes
  - (C) Decremental response on repetitive stimulation on EMG
  - (D) Can antedate small cell carcinoma of lung
55. Diabetic third Nerve Cranial palsy is characterized by all except :-
- (A) Dilated pupil with sluggish light reflex
  - (B) Diplopia
  - (C) Unilateral ptosis
  - (D) Intense retro orbital pain
56. Drug induced hallucinations is usually a feature of :-
- (A) Dementia with lewy body
  - (B) Frontotemporal dementia
  - (C) Cruetzfield Jakob dementia
  - (D) Vascular dementia
57. Hypercapnic respiratory failure with increased dead space can be seen in all except :-
- (A) Asthma
  - (B) Cystic fibrosis
  - (C) Myxedema
  - (D) Pulmonary fibrosis



58. Features of BiPAP ventilation includes all except :-
- (A) Inspiratory support decreases work of breathing
  - (B) Inspiratory support prevents alveolar collapse
  - (C) Can be successfully used in COPD
  - (D) PSv level of 5-10 cm H<sub>2</sub>O and CPAP of 3-5 cm H<sub>2</sub>O should be used initially
59. Main goal of PEEP during mechanical ventilation is to keep :-
- (A) PaO<sub>2</sub> > 90 mm Hg with FiO<sub>2</sub> < 50%
  - (B) PaO<sub>2</sub> > 70 mm Hg with FiO<sub>2</sub> < 60%
  - (C) PaO<sub>2</sub> > 55-60 mm Hg with FiO<sub>2</sub> < 60%
  - (D) PaO<sub>2</sub> > 55-60 mm Hg with FiO<sub>2</sub> > 60%
60. The best biochemical marker of hepatic fibrogenesis is :-
- (A) Hyaluronan
  - (B) apo Lipoprotein A1
  - (C) α-2 Macroglobulin
  - (D) Haptoglobin
61. In ascites due to portal hypertension, a falsely low SAAG could be seen in all except :-
- (A) Very low serum albumin
  - (B) Systemic hypotension
  - (C) Chylous ascites
  - (D) Very high serum globulin

62. Treatment of choice for Lamivudine resistant chronic HBV infection :
- (A) Tenofovir alone
  - (B) Entecavir alone
  - (C) Lamivudine + Tenofovir
  - (D) Lamivudine + Entecavir
63. True about Celiac disease all except :-
- (A) Spontaneous remission occurs during the 2<sup>nd</sup> decade of life which may be permanent in some
  - (B) Absence of DQ2/DQ8 excludes the diagnosis
  - (C) A small intestinal biopsy is required to establish the diagnosis
  - (D) Anti EMA and anti tTg antibodies are linked to the pathogenesis and histopathological changes characteristic of the disease
64. All the following are common movement disorders in Wilson's disease except :-
- (A) Myoclonus
  - (B) Tremor
  - (C) Dystonia
  - (D) incoordination
65. Breast milk to serum concentration ratio of the following anti-epileptic drug (AED) is maximum :-
- (A) Valproate
  - (B) Levetiracetam
  - (C) Carbamazepine
  - (D) Ethosuximide

66. Most common cause of seizures in a patient with HIV infection is :-
- (A) Cerebral Toxoplasmosis
  - (B) Primary CNS Lymphoma
  - (C) Cryptococcal meningitis
  - (D) Progressive multifocal leukoencephalopathy
67. Following markers are used to assess disease activity in SLE except :-
- (A) Anti-ds DNA
  - (B) Complement C3
  - (C) Anti-Ro
  - (D) NGAL
68. Regarding the anti CCP antibody in Rheumatoid arthritis the following statements are true except :-
- (A) It is included in the new 2010 ACR-EULAR criteria
  - (B) May be detected in sera long before clinical disease
  - (C) It has a specificity of 60-70%
  - (D) It has important prognostic significance
69. Beside  $\beta$ 2 microglobulin the following parameter is also used by the international staging system for multiple myeloma :-
- (A) Serum globulin
  - (B) Serum albumin
  - (C) Circulating plasma cells
  - (D) M-protein in serum

70. The best investigation to establish the diagnosis of Polycythaemia Vera is :-
- (A) JAK 2 mutation
  - (B) Serum erythropoietin
  - (C) Bone marrow cytology
  - (D) Red cell distribution width
71. True about Disseminated intravascular coagulation (DIC) are all except :-
- (A) Most sensitive test is FDP.
  - (B) Schistocytes are common in the Peripheral Smear
  - (C) Fibrinogen levels falls acutely in all cases
  - (D) PT and APTT may be normal in chronic DIC
72. The most important indication of ICT drain in Parapneumonic effusion is :-
- (A) Pus is aspirated on pleurocentesis
  - (B) Loculated effusion is present
  - (C) Pleural fluid culture is positive for Klebsiella
  - (D) If fluid separates the lung from the chest wall by > 10 mm on lateral decubitus Xray
73. Contrast induced nephropathy is characterized by all except :-
- (A) Diabetics are more susceptible
  - (B) Serum creatinine peaks in 3-5 days
  - (C) Active urinary sediments
  - (D) Resolve within a week



74. Waxy casts are seen in :-
- (A) Chronic renal failure
  - (B) Nephrotic syndrome
  - (C) Interstitial nephritis
  - (D) Transplant rejection
75. One of the following situations is not associated with high Trans tubular K<sup>+</sup> gradient (TTKG) :-
- (A) Loop diuretics
  - (B) Osmotic diuresis
  - (C) Liquorice use
  - (D) Distal RTA
76. True about Vasopressin antagonists all except :-
- (A) Conivaptan also has action on the V1A receptor
  - (B) They are not approved for use in acute hyponatremia
  - (C) Strict fluid restriction is an essential component of management
  - (D) Can lead to rapid correction of hyponatremia with consequent ODS
77. Decrease in the anion gap (AG) is associated with all except :
- (A) Lithium intoxication
  - (B) Cation exchange resins
  - (C) Plasma cell dyscrasias
  - (D) Nephrotic syndrome

78. Fall in serum albumin by 1g/dl from the normal value (4.5g/dl) alters the Anion Gap as follows :-
- (A) AG decrease by 2.5 meq/L
  - (B) AG increase by 2.5 meq/L
  - (C) AG fall by 1.5 meq/L
  - (D) Does not change the AG at all
79. The ABG of a patient with DKA have PH 6.90 and HCO<sub>3</sub> 10 meq/L, what would be the most appropriate respiratory compensation (PaCO<sub>2</sub>) in the absence of any mixed acid base disturbance :-
- (A) 21-25 mmHg
  - (B) 26-30 mmHg
  - (C) 30-34 mmHg
  - (D) 34-38 mmHg
80. Pyridoxine is used as an antidote for all except :-
- (A) Isoniazid
  - (B) Wernicke's encephalopathy
  - (C) Hydralazine
  - (D) Fungus (Gyromitra esculenta)

Space for Rough Work

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