



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, त्रिवेंद्रम , केरल- 695 011
(एक राष्ट्रीय महत्व का संस्थान, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार)
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Entrance Examination 2020 - DM _ Neurology (General Medicine)

Sl No	Question	Answer	OptionA	OptionB	OptionC	OptionD
1	As per the 2012 International Chapel Hill Consensus conference on nomenclature of vasculitides, isolated CNS angitis is now grouped under	C	Medium vessel vasculitis	ANCA associated small vessel vasculitis	Single organ vasculitis	Immune complex associated small vessel vasculitis
2	Which of the following investigation is gold standard for diagnosis of isolated CNS angitis?	B	MRI with contrast	Meningocortical biopsy	Cerebral angiogram	High resolution MR-vessel wall imaging
3	Which among the following inherited disease can be associated with non-atheromatous vasculopathies and young stroke?	B	MELAS	Ehlers Danlos type IV	Protein C deficiency	Homocystinuria
4	Which among the following is NOT a component of ABCD2 score used for risk stratification of TIA?	A	Age 50 or above	Diabetes mellitus	Duration of symptoms	Clinical –weakness/speech impairment
5	Commonest site of hypertensive intracerebral bleed	B	Caudate	Putamen	Thalamus	internal capsule
6	Which of the combination of biochemical findings favour a diagnosis of anemia of chronic inflammation ?	A	Low serum Iron, low total iron binding capacity(TIBC), low transferrin saturation and high ferritin.	Low serum Iron, High TIBC, low transferrin saturation and low Serum Ferritin	Low serum Iron, low TIBC, high transferrin saturation and high Serum Ferritin	Normal Serum Iron, low TIBC, high transferrin saturation and high Serum Ferritin
7	Which among the following is a primary hemostatic disorder due to platelet adhesion defect?	C	Scott's syndrome	Glanzmann's thrombaesthesia	Von Willebrand disease	Afibrinogenemia
8	Control of endogenous microbial flora-in the oral cavity and GIT gets impaired when absolute neutrophil count(ANC) falls before.....	D	<2000 cells/microliter	<1500 cells/microliter	<1000 cells/microliter	<500 cells/microliter
9	Taste sensation from the anterior two-thirds of the tongue courses through all the following nerves EXCEPT:	A	Greater (Superficial) Petrosal nerve	Lingual nerve	Chorda tympani	Nervus intermedius
10	Which among the following is the principal neurotransmitter involved in the basal ganglia output to the thalamus and brainstem?	D	Dopamine	Glutamic Acid	Glycine	Gamma Amino Butyric Acid
11	Which among the following gene mutations cause early onset Parkinsonism with pyramidal signs?	C	LRRK2	SNCA	FBX07	PARKIN
12	Which among the following is a dimorphic fungus?	C	Aspergillus	Rhizopus	Candida	Cryptococcus
13	Which among the following is the first-line / primary drug of choice for the treatment of aspergillosis?	A	Voriconazole	Amphotericin B	Fluconazole	Flucytosine
14	Which among the following antihypertensive medications has been shown to have efficacy as prophylactic medication against migraine?	B	Cilnidipine	Candesartan	Clonidine	Captopril
15	Which among the following is the preferred target for Deep Brain Stimulation in patients with generalized dystonia?	C	Dorsolateral Putamen	Head of Caudate Nucleus	Globus Pallidus internus	Red nucleus
16	Which among the following medications is used as the preferred treatment for Paroxysmal Kinesigenic Dyskinesia (PKD)?	B	Levodopa	Carbamazepine	Anticholinergics	Tetrabenazine
17	Which among the following is the most common pathological correlate of HIV-associated nephropathy?	D	Membranous glomerulopathy	Membranoproliferative glomerulopathy	Interstitial nephropathy	Focal segmental glomerulosclerosis
18	Which among the following anti-tuberculosis medications is most likely to cause an allergic interstitial nephritis on restarting after a period of default?	C	Streptomycin	INH	Rifampicin	Pyrazinamide
19	The most likely diagnosis in a seven year old girl with normal development who has periods of inattention and poor performance in school is due to:	D	Complex partial seizure.	Rasmussen encephalitis	Progressive myoclonus epilepsy.	Childhood absence epilepsy
20	A single normal electroencephalogram (EEG) in a person thought to have complex partial seizures	D	Can rule out a diagnosis of epilepsy	Indicates that a patient does not have mesial temporal sclerosis	Suggests a diagnosis of generalized epilepsy	Should be repeated if clinically indicated
21	Which of the following agents had by far the greatest incidence of fatal rhabdomyolysis?	A	Cerivastatin	Lovastatin	Simvastatin	Atorvastatin

22	Cyanotic or blue breath-holding attacks occurs due to	B	breath holding that occurs during inspiration	breath holding that occurs during expiration	neurally mediated vagal discharge	hyperventilation
23	Most of the identified genes associated with epilepsy are	A	Ion channels and neurotransmitter receptors	Ion channels and neurotransmitter receptors	Protease inhibitors	Cell growth promoters
24	Frontotemporal dementia has been associated with mutations in the gene coding for which of the following?	B	α -Synuclein	Tau protein	Amyloid precursor protein	Superoxide dismutase
25	Which of the following genetic tests would best detect a balanced chromosomal translocation ?	C	Chromosomal microarray	Whole exome sequencing	Karyotype	Multiples ligation dependent probe amplification
26	In the spinal cord, motor neuron cell bodies are located in	C	Lamina II.	Lamina V.	Lamina IX	Lamina I.
27	Food is prevented from entering the larynx during the pharyngeal phase of swallowing by	A	constriction of the laryngeal entrance.	upward movement of the epiglottis.	downward movement of the larynx.	increase in respiratory rate
28	Which brain structure is typically involved in periodic alternating nystagmus?	C	Middle cerebellar peduncle	Flocculus	Nodulus	Fastigial nucleus
29	The frontal circuit associated with motivational behaviour is	D	Supplementary motor circuit	Dorsolateral prefrontal circuit	Orbitofrontal circuit	Anterior cingulate circuit
30	Limbic encephalitis presentation is classical for all the following antibody mediated/associated encephalitis EXCEPT	C	GABA B encephalitis	LG11 encephalitis	mGluR1 encephalitis	Anti-Hu antibody mediated encephalitis
31	A 25-year-old male presented with bilateral ptosis, facial weakness, distal upper limb weakness and difficulty in releasing grip. His father has bilateral ptosis. What is the genetic test of choice?	C	Clinical exome sequencing	Multiple ligase-dependent probe amplification	Triplet repeat primed PCR	Targeted gene sequencing
32	Acute necrotizing myopathy is causally linked to which of the following drugs?	D	Cochicine	Chloroquine	Amiodarone	Statins
33	Which of the following statements is TRUE regarding pregnancy and systemic lupus erythematosus?	C	Risk of fetal loss is not influenced by disease activity	Co-existence of anti-La antibodies increase the risk of congenital heart block in the newborn	Hydroxychloroquine therapy reduces the risk of fetal congenital heart block in future pregnancies	Azathioprine is absolutely contraindicated during pregnancy
34	Rhomboid or rod-like crystals in synovial fluid are characteristic of	A	Calcium pyrophosphate deposition disease	Chronic gout	Calcium apatite deposition disease	Calcium oxalate deposition disease
35	The following are true of antiphospholipid antibodies(aPLs) except	D	Patients with Sneddon syndrome harbour aPLs	They can present with multiinfarct dementia	Cardiac valvular lesions are seen in patients with aPLs	Chorea is one of the commonest presentation in patients with aPLs
36	Quadruple sectoranopia is diagnostic of infarction in territory of	A	Anterior choroidal artery	Posterior choroidal artery	Proximal posterior cerebral artery	Thalamogeniculate artery
37	Indication for repair of the Thoracic aortic aneurysms are all except	A	Increase in diameter of aneurysms more than 2 cm per year	All symptomatic ascending aorta aneurysms	Asymptomatic aneurysm with descending aortic diameter more than 5.5 cm	Marfan syndrome with ascending aorta aneurysm 4 to 5 cm
38	Criteria for myocarditis on endomyocardial biopsy	A	Dallas criteria	Duke criteria	Sgarbossa	None of the above
39	Regarding endothelin receptor antagonist, which of the following is true	C	Bosentan and Macitentan are endothelin A selective receptor antagonist	Ambrisentan is a nonselective receptor antagonist	Ambrisentan was studied in ARIES - 1 trial	Bosentan was studied in ARIES 1 trial
40	The following are true of olfactory dysfunction in COVID 19 except	D	The incidence of olfactory dysfunction in COVID 19 varies from 30-70%	Anosmia is a prominent sign of SARS-CoV2 infection	Patients with COVID 19 can present with anosmia without any other symptoms	Recovery from anosmia is poor in Covid 19
41	Which of the following solutes is present in higher concentrations in CSF than serum,	D	Calcium	Chloride	Magnesium	Both b and c

42	glymphatic system promotes elimination of metabolites from which system	D	Upper GI tract	Lower GI tract	Respiratory system	Central Nervous system
43	Hereditary Neuropathy with liability to Pressure Palsies (HNPP) is associated with	D	MPZ duplication	MPZ deletion	PMP22 duplication	PMP22 deletion
44	Which of the following is the most common cause of early-onset autosomal-dominant Alzheimer disease?	B	Amyloid precursor protein	Presenilin 1	Presenilin 2	ApoE4
45	Gene associated with DYT11 (Dystonia plus myoclonus) is,	A	SGCE	GCH1	GNAL	THAP1
46	18-year-old man presents with 1 month of headaches and 10 days of increasing ataxia. He has a past medical history of renal cysts. There is a strong family history of renal cancer and "brain tumors." Which of the following is his most likely underlying diagnosis?	A	Hemangioblastoma related to Von Hippel-Lindau syndrome	Vestibular schwannoma related to neurofibromatosis 2	Optic glioma related to neurofibromatosis 1	Cerebellar hamartoma related to Cowden syndrome
47	Child-Pugh score includes all factors except	B	Serum Albumin	SGPT	Serum Bilirubin	Prothrombin time
48	All are true about Primary biliary cirrhosis, except	C	Presents with pruritus and progressive jaundice,	Median age of presentation is around 50 years	AMA is present in 40% of patients	Ursodeoxycholic acid has been shown to improve biochemical features
49	Elastosis perforans serpiginosa (EPS) is a reactive perforating dermatosis associated with	C	Colchicine	Methotrexate	Penicillamine	Cisplatin
50	Cranial nerve XII supplies muscles of the tongue except the ,	B	Intrinsic muscles	palatoglossus	genioglossus	styloglossus
51	Congenital myasthenic syndromes (CMS) with COLQ gene mutation responds to	C	Fluoxetine	Quinidine	Ephedrine	Both A and B
52	All are true about MuSK myasthenia except	A	Do not involve facial and bulbar muscles	One third do not respond well to anticholinesterase drugs	Can develop atrophy of lingual muscles	high frequency of respiratory crisis
53	Which of the following hypothalamic nuclei controls the circadian rhythm?	D	Supraoptic nucleus	Lateral nucleus	Anterior nucleus	Suprachiasmatic nucleus
54	Baroreceptors in each carotid sinus sends information about distention of the vessel wall to the brainstem through	A	Glossopharyngeal nerve	Vagus nerve	C1 and C2 spinal nerves	Trigeminal nerve
55	Which of the following condition is considered as a functional disorder of autonomic nervous system?	D	Multiple system atrophy	Parkinson's disease	Diabetic neuropathy	Complex regional pain syndrome
56	The drug of choice in the treatment of a child with attention deficit hyperactivity disorder	A	Methylphenidate	Duloxetine	Clonazepam	Topiramate
57	Anterior neuropore closes at	C	16 days' gestation	20 days' gestation	24 days' gestation	28 days' gestation
58	Pulvinar sign in MRI brain is seen in	B	Sporadic Creutzfeldt-Jakob disease	Variant Creutzfeldt-Jakob disease	Familial Creutzfeldt-Jakob disease	Iatrogenic Creutzfeldt-Jakob disease
59	A 40 year-old male patient presented with acute glomerulonephritis, asthma and peripheral eosinophilia. Renal biopsy showed focal segmental necrotizing glomerulonephritis without eosinophils and granulomas. What is the most likely diagnosis?	C	Microscopic Polyangiitis	Wegener's granulomatosis	Churg-Strauss Syndrome	Goodpasture's syndrome
60	The most common kidney stones are	A	Calcium oxalate	calcium phosphate	uric acid	cystin
61	Which of the following structures concerned with geographic gnosis represents the inferior and anterior continuation of the cingulate gyrus beyond the splenium of the corpus callosum?	D	Lingual gyrus	Occipitotemporal gyrus	Cuneus	Parahippocampal gyrus
62	Which of the following is a feature of cortical amnesia due to bilateral mesial temporal lobe lesions?	C	Prominent confabulation to "fill-in" memory gaps	Isolated verbal retrieval deficits on recall tasks	Prominent verbal-visual encoding deficits on recall tasks	Less aware of deficit in comparison to anteromedial thalamic lesions
63	Which of the following statements is a feature of pure word blindness:	A	Interhemispheric disconnection syndrome	Patients cannot read and write on dictation	Cannot identify the word by tracing letters	Due to dominant angular gyrus lesions
64	Regarding the pathology seen in Alzheimer's disease, the following statement is true:	A	Neurofibrillary tangles are intracellular deposits of a microtubule associated protein and ubiquitin	Neuritic plaques are intracellular deposits that contain beta-amyloid and other proteins	Plaques are not found in the cerebral and meningeal blood-vessel walls	Greatest risk is with Apo E4/E2 heterozygous genotype
65	Regarding neurometabolic disorders with autosomal recessive pattern of inheritance the following statement is correct:	D	Heterozygous missense variants are usually pathogenic	Heterozygous truncating variants are usually pathogenic	Does not lead to sporadic cases in communities with consanguinity	Compound heterozygous variants are usually pathogenic

66	Which of the following inborn errors have X-linked recessive inheritance?	C	Hurler syndrome	Biotinidase deficiency	Ornithine transcarbamylase deficiency	Acute intermittent porphyria
67	What is not a feature of primary hemochromatosis?	B	Linked to HLA-A locus on chromosome 6	Hypergonadotropic hypogonadism	Elevated transferrin and ferritin	Alcoholism is a risk factor
68	The false statement with regard to Hepatitis C virus (HCV) infection is:	C	At least 6 major genotypes of HCV have been identified by nucleotide sequencing	High mutation rate interferes with effective humoral immunity	Heterologous and homologous immunity appears to develop commonly after acute HCV infection	Hepatic steatosis and clinical progression are more likely in genotype 3
69	Which of the following is NOT true in a patient with post traumatic right trochlear nerve palsy	A	Patient would have head tilt to the right side	Right eye will be hypertropic due to inferior oblique overaction	There would be failure of intorsion in right eye	Patient will have diplopia maximum on looking left and down
70	Which of the following viruses is thought to have a strong association with the pathogenesis of multiple sclerosis?	B	Human herpes virus 7	Epstein Barr virus	Cytomegalovirus	Coxsackie virus B
71	Which of the following features would make a diagnosis of Aquaporin 4 antibody positive neuromyelitis optica spectrum disorder highly likely?	B	Typical optic neuritis	Area postrema syndrome	Multiple asymptomatic brain lesions	Encephalopathic presentation in childhood
72	Mr. X, 44 years is found to have cryptococcal meningitis in the setting of advanced HIV infection. He has been started on Flucytosine. About half of the AIDS patients treated with flucytosine for cryptococcal meningitis are forced to discontinue it because of;	A	Neutropenia	Hepatic dysfunction	Steven Johnson Syndrome	Thrombocytopenia
73	The true statement regarding temporal neocortical epilepsy as compared to mesial temporal epilepsy is all EXCEPT	B	Auditory aura is common	Lesser chance for secondary generalisation	Less propensity for oral automatisms	Less chance for contralateral dystonic posturing
74	In Rheumatic mitral regurgitation, which medication is preferred to reduce regurgitate volume and preserve left ventricular function?	C	Digoxin	Betablockers	ACE-inhibitors	Diuretics
75	What is the current definition of Juvenile oligoarthritis as per ILAR (International League of Association for Rheumatologists) ?	A	Arthritis involving less than 5 joints, during the first 6 months of life	Arthritis involving less than 2 joints ,for at least 2 weeks	Arthritis involving at least one small and one large joint with no time specification	Arthritis of less than or equal to 3 joints in either small joints or large joints
76	“ Ragged red” fibre can be seen in all EXCEPT:	D	Mitochondrial cytopathy	Zidovudine myopathy	MERRF	Facioscapulohumeral muscular dystrophy
77	A 58-year-old man presents with cough and chest pain. Chest radiograph shows mediastinal widening. A chest CT scan shows a cystic calcified mass lesion in the posterior mediastinum. Which of the following is the most likely pathology of the mediastinal mass?	A	germ cell tumor	lung carcinoma	lymphoma	thymic hyperplasia
78	Duodopa is	C	aerosol preparation of Levodopa/carbidopa	transdermal preparation of Levodopa/carbidopa	intestinal infusion of Levodopa/carbidopa	new subcutaneous injectable preparation of Levodopa/carbidopa to escape freezing /severe off phases
79	Which of the following conditions is most likely to produce central apneas?	B	Cor pulmonale	High-altitude breathing	Metabolic acidosis	Obesity
80	Proprioceptive nerve endings in synovial joints are located in	B	articular cartilage and synovial membrane.	ligaments and articular discs.	synovial membrane and capsule.	capsule and ligaments.
81	All of the following can be typical clinical abnormalities in Friedreich's ataxia except	C	Cardiomyopathy	Kyphoscoliosis	Retinitis pigmentosa	Sensorineural hearing loss
82	Poly hill sign is seen in which of the following muscular dystrophies ?	C	Duchenne Muscular Dystrophy	Calpainopathy	Facio Scapulo Humeral Muscular Dystrophy	Congenital Muscular Dystrophy
83	Lesions in which among the following sites in the Brachial plexus results in weakness of wrist extensors and arm abductors	A	Posterior cord	Medial cord	Lateral cord	Lower trunk

84	All the following are true of Lambert Eaton Myasthenic syndrome except	D	DELTA P score is used in tumor association prediction	Characterised by autonomic features and areflexia	It is a presynaptic disorder	Most common tumor association is adenocarcinoma lung
85	How many exons does the Dystrophin gene have ?	B	88	79	51	63
86	All of the following are false regarding Neurofibromatosis 1 except	C	Gene for NF 1 is located on Chromosome 17p22	The inheritance is autosomal recessive	Penetrance is 100%	Incidence is 1 in 30000-40000 live births
87	Which among the following occurs as a result of lateral transtentorial herniation in acute SDH ?	B	Hemiparesis contralateral to SDH	Duret's hemorrhages	Both	None
88	Which among the following is a constant according to the Munro Kellie doctrine ?	D	Intracranial blood +CSF+ brain pressure	Total CSF pressure	Total CSF volume	Intracranial blood +CSF+ brain volume
89	Oculomasticatory myorhythmia is pathognomonic of which of the following	B	Coeliac disease	Whipple's disease	Crohn's disease	Vitamin B12 deficiency
90	The site of absorption of Vitamin B12 is	C	Duodenum	Jejunum	Ileum	Stomach
91	Which of the following can occur in relation to Silicosis?	D	Increased incidence of scleroderma	Progressive Massive Fibrosis (PMF)	Increased chance of pulmonary fungal infections	All of the above
92	Which of the following can reliably diagnoses Pleural effusion due to Congestive Cardiac Failure (CCF)?	C	Pleural fluid/serum LDH ratio	Gamma Interferon level in Pleural fluid	NT-Pro BNP level in Pleural fluid	Pleural fluid/serum Atrial Natriuretic peptide ratio
93	Headaches are uncommon in	C	CADASIL	Temporal Arteritis	Leukoaraiosis	Reversible Cerebral Vasoconstriction Syndrome (RCVS)
94	Potential collateral flow in Chronic occlusion of terminal Internal Carotid Artery (ICA) can be from all except	B	Middle meningeal Artery	Ophthalmic Artery	ACoM	PCoM
95	PTH independent Hypercalcemia occurs in all except	A	Lithium therapy	Humoral hypercalcemia of malignancy	Hyperthyroidism	Adrenal Insufficiency
96	Which of the following can result in aseptic meningitis	D	NSAIDs	IVIgG	INH	All of the above
97	Anterior horn cell tropism is not a feature of myelitis related to	C	West Nile Virus	Zika Virus	HTLV-1	Polio Virus
98	CSF Polymorphonuclear Pleocytosis can occur in all of the following except.	D	West Nile Virus encephalitis	CMV Myeloradiculitis	Enteroviral Myelitis	HHV-6 Encephalitis
99	The nobel prize for physiology and medicine for the year 2020 was awarded to	A	Harvey J Alter	William G Kaelin Jr	James P Allison	Jeffrey C Hall
100	What is the most accurate test to identify iron deficiency anemia	C	Peripheral smear examination	Total Iron binding capacity	Measurement of the serum ferritin level is the most accurate test to diagnose iron deficiency anemia.	Reticulocyte count