# 

HAT-10601Seat No.Final Year B. Physiotherapy Examination<br/>July - 2017Physiotherapy in Neuromuscular Conditions

Time : 3 Hours ]

[ Total Marks : 100

## SECTION - I

1	Answer any two : 10×2=20		
	(a)	Discuss the secondary impairment in patient with spinal cord lesion.	
	(b)	Discuss the assessment and treatment of balance impairement in brief.	
	(c)	Enumerate all the cranial nerves along with their functions.	
2	Answer in brief : (any two) 5×2=10		
	(a)	Write a note on meningitis.	
	(b)	Types of spina bifida	
	(c)	Diabetic polyneuropathy	
3	Short answers : (any 5) 2×5=10		
	(a)	Name few motor programming deficits	
	(b)	Functions of spinothalamic tracts	
	(c)	Name the terminal branches of brachial plexus	
	(d)	What is autonomic dysreflexia?	
	(e)	Difference between intentional tremor and resting tremor	
	(f)	Define stage 2 and 3 of sequential recovery stages of	
		brunnstrome for stroke patients.	
4	Multiple choice questions : 1×10=10		
	(1)	All of the below muscles are supplied by Median nerve except	
		(i) 1 <sup>st</sup> lumbrical (ii) 2 <sup>nd</sup> lumbrical	
		(iii) 3 <sup>rd</sup> lumbrical (iv) Opponens pollicis	
	(2)	Myotome for hip flexion is	

- (i) L2 (ii) L3
- (iii) L3-4 (iv) L1

#### HAT-10601]

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- (3) Compression of median nerve as it passes beneath the flexor retinaculum is called
  - (i) Flexor withdrawal
  - (ii) Carpal tunnel syndrome
  - (iii) Brown sequared syndrome
  - (iv) None of the above
- (4) A progressive hereditary disorder of peripheral nerves that is characterised by gradual progressive distal weakness and wasting, mainly affecting peroneal muscles in the leg is know as
  - (i) Charcot-Marie-Tooth disease
  - (ii) HMSN
  - (iii) None of the above
  - (iv) Both (i) and (ii)
- (5) \_\_\_\_\_ is a type of motor neuron disease
  - (i) Peroneal muscular, atrophy
  - (ii) Acute transverse myelitis
  - (iii) Progressive bulbar palsy
  - (iv) None of the above
- (6) A disorder of neuromuscular junction caused by an impaired ability of acetyle choline to induce muscle contraction is known as
  - (i) Muscular dystrophy
  - (ii) Myasthenia gravis
  - (iii) Myositis ossificans
  - (iv) Multiple sclerosis
- (7) Area of primary motor cortex is located in
  - (i) Precentral gyrus (ii) Postcentral sulcus
  - (iii) Postcentral gyrus (iv) Precentral sulcus
- (8) \_\_\_\_\_ is not a symptom of anterior cerebral artery syndrome.
  - (i) Contralateral hemiplegia (L.L > U.L)
  - (ii) Urinary incontinence
  - (iii) Akinetic mutism
  - (iv) Brocha's aphasia
- (9) Following the examiner's finger which moves up and down and side to side, keeping the head in mid position is test to examine the function of
  - (i) Trigeminal nerve (ii) Facial nerve
  - (iii) Oculomotor nerve (iv) Optic nerve
- (10) Under or over shooting while reaching for the target is also known as
  - (i) Diplopia(iii) Dysarthria
- (ii) Dysmetria
- (iv) None of the above

#### HAT-10601]

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### **SECTION** – II

5	Ans	wer any two : 10×2=20
	(a)	Discuss the physiotherapy management of a patient with Rt MCA infarct.
	(b)	Discuss the physiotherapy management of a patient with cerebellar ataxia
	(c)	Discuss the physiotherapy management of a patient with post-polio residual paralysis
6	Ans	wer in brief : (any two) 5×2=10
	(a)	Write a note on Complex regional pain syndrome
	(b)	Enumerate motor impairment in multiple sclerosis
	(c)	Write a note on herpes zoster
7	Sho	rt answers : (any 5) 2×5=10
	(a)	Name the different lobes of cerebellum
	(b)	Define policeman's tip hand deformity
	(c)	Modified ashworth scale grade 3 and grade 4
	(d)	Define dermatome and myotome
	(e)	What is charcot's joint?
	(f)	Enumerate the branches of internal carotid artery
8	Mu	tiple choice questions : 1×10=10
	(1)	Reflex flexion of patient's thumb when distal phalax of $3^{rd}$ or $4^{th}$ finger is flicked by examiner is called
		(i) Hoffman reflex (ii) Palmar reflex
		(iii) Plantar reflex (iv) Grasp reflex
	(2)	A lesion of inferior frontal cortex, causing non-fluent hesitant speech that is characterised by poor grammer and reduced word output is known as
		(i) Global aphasia (ii) Spastic dysarthria
		(iii) Wernick's aphasia (iv) Brocha's aphasia
	(c)	A degenerative disease of substantia niagra which results in depletion of dopamine levels is known as
		(i) Alzhimer's disease
		(ii) Parkinson's disease
		(iii) Motor neuron disease
		(iv) None of the above

- (4) Types of spina bifida includes
  - (i) Spina bifida occulta
  - (ii) Spina bifida cystica
  - (iii) Both (i) and (ii)
  - (iv) None of the above
- (5) Causes of CVA includes .
  - (i) Haemorrhage (ii) Atherosclerosis
  - (iii) Embolism (iv) All of the above
- (6) A condition characterised by brief attacks of severe, stabbing facial pain could be
  - (i) Facial palsy (ii) Trigeminal neuralgia
  - (iii) Epilepsy (iv) None of the above
- (7) Axillary nerve originates at the level of
  - (i) Trunks of brachial plexus
  - (ii) Roots of brachial plexus
  - (iii) Cords of brachial plexus
  - (iv) Terminal branch of brachial plexus
- (8) Tibialis anterior muscle in the leg is supplied by
  - (i) Deep peroneal nerve
  - (ii) Tibial nerve
  - (iii) Sciatic nerve
  - (iv) None of the above
- (9) Following are the symptoms of cerebellar lesion except
  - (i) Hypotonia (ii) Dysmetria
  - (iii) Dysarthria (iv) Dysphasia
- (10) A patient with spinal cord injury at the level of C8 has following function intact.
  - (i) Wrist function and hand control
  - (ii) Hip flexion
  - (iii) Knee extension
  - (iv) Abdominals