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BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – B.Sc.(PA)-2019/B.Sc.(PA)-2020

Course Name – Neurology

Course Code - BPA501

(Semester V)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Which of the following is not a function of CSF?
- | | |
|--|---|
| a) to exchange nutrients and metabolic waste | b) to improve conduction of nerve signals between different brain regions |
| c) to provide mechanical protection to the brain | d) to carry neuroactive hormones in the nervous system |
- (ii) The three main anatomical neural planes are
- | | |
|---------------------------------------|-------------------------------------|
| a) cerebral, horizontal and coronal | b) cerebral, ventral and dorsal |
| c) horizontal, anterior and posterior | d) sagittal, coronal and horizontal |
- (iii) Which of the following muscle is not supplied by the posterior rami of spinal nerves?
- | | |
|-------------------|----------------------|
| a) Erector spinae | b) Levator costae |
| c) Splenius | d) Scalene posterior |
- (iv) Which test is useful to assess a vestibuloocular reflex
- | | |
|------------------------|-----------------------|
| a) Thrust Test | b) Hallpike Manoeuvre |
| c) Pure Tone Manoeuvre | d) None of these |
- (v) A 25-year-old male patient is describing recurrent bouts of excruciating unilateral retroorbital pain with parasympathetic autonomic activation. The condition comes under which of the following
- | | |
|--------------------------|-----------------------------------|
| a) Tension-type headache | b) Cluster Headache |
| c) Hemiplegic migraine | d) Trigeminal Autonomic Cephalgia |
- (vi) Identify the area, damage to which can improve speech production.
- | | |
|-----------------|--------------------|
| a) Broca's area | b) Wernicke's area |
| c) Both | d) None |
- (vii) Write down the correct condition where vertigo is readily associated with the change of position
- | | |
|------------------------------|----------------------------|
| a) Benign positional vertigo | b) Benign postural vertigo |
| c) Benign Migrainal vertigo | d) None |
- (viii) Write down the name of the investigation, performed to identify unilateral vestibulopathy

- a) Head Impulse Test
 c) Caloric Test
- b) Babinski's test
 d) None
- (ix) Select the tract carries fibres of pain, warmth & cold
 a) Tract of Gall
 c) Spinothalamic tract
- b) Tract of Burdach
 d) All
- (x) Select the option which is concerned with maintenance of erect posture
 a) Vermis
 c) Tentorium cerebelli
- b) Cerebellum
 d) None
- (xi) Syringomyelia is frequently associated with which of the following
 a) Arnold-Chiari Syndrome
 c) Dandy-Walker Syndrome
- b) Gamma-Knife Syndrome
 d) None
- (xii) Diagnosis of neuromyelitis optica is done by which of the following?
 a) Testing of aquaporin-4 antibodies
 c) Retinoscopy
- b) Ophthalmoscopy
 d) None
- (xiii) Write the alternative for Internal Carotid Endarterectomy
 a) Percutaneous Transluminal Angioplasty
 c) Combined Aspirin 75 mg & Clopidogrel 75 mg
- b) Injection of Plasminogen Activator
 d) None of the above
- (xiv) Write the name of the bacteria which is not responsible for Bacterial meningitis
 a) Mycobacterium tuberculosis
 c) Listeria monocytogenes
- b) Escherichia coli
 d) Cryptococcus neoformans
- (xv) Write down the reflex, where Passive head turning produces Ocular deviation away from the direction of rotation
 a) Vestibulo- Ocular reflex
 c) Both
- b) Doll's head reflex
 d) None of the above

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Write down the neurological disorders of micturition. (3)
3. Write a short note on Lumbar Puncture & CSF examination (3)
4. Write a short note on 'Berry Aneurysms'? (3)
5. Describe the types of peripheral nerves diseases (3)
6. Explain the features of TIA? (3)

OR

Write a short note on Wallenberg's syndrome? (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. A 29-year-old male patient is presenting extreme crushing headache, rigor, malaise, stiffness of the neck & fever. What will be the probable diagnosis? How will you go to examine the case to reach a confirmed diagnosis? (5)
8. Classify the neurons carrying impulses from periphery to the cortex (5)
9. What is Bell's palsy? What are the characteristic features of Bell's palsy? (5)
10. Write a short note on Transverse myelitis. (5)
11. Write down the protocol for the care of the patient with paraplegia (5)
12. Compare the clinical manifestations of UMNL & LMNL (5)

OR

Describe the procedure of the test used to perform to elicit Brudznski's Sign (5)
