

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2019  
(Second Semester)

Branch - APPLIED PSYCHOLOGY

**NEUROPSYCHOLOGY**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Which branch of Psychology aims to understand the structure & function of the brain related to specific psychological processes?  
(i) Cognitive Neuropsychology (ii) Clinical Neuropsychology  
(iii) Cognitive Neuroscience (iv) Clinical Neurology
  - 2 Which is the major structure that connects the two hemispheres?  
(i) Anterior Commissure (ii) Corpus Callosum  
(iii) Fornix (iv) Genu
  - 3 Identify the lobe which is connected with thinking, planning and emotional control.  
(i) Hippocampus (ii) Parietal  
(iii) Occipital (iv) Frontal
  - 4 What ability could be affected when Broca's area is affected?  
(i) understanding what others say (ii) speech  
(iii) Reading (iv) Writing
  - 5 Indicate which precedes the onset of an epileptic seizure?  
(i) Stimulus (ii) hallucination  
(iii) Aura (iv) Loss of Consciousness
  - 6 Which disorder involves difficulty in learning arithmetic?  
(i) Apraxia (ii) Acalculia  
(iii) Dyscalculia (iv) Dyslexia
- Which convey stimuli through the optic tracts to the lateral geniculate bodies?
- (i) retinal sensors (ii) thalamus  
(iii) sensory nerves (iv) visual area
- 8 Name the lobe that controls vision.  
(i) frontal (ii) Parietal  
(iii) Occipital (iv) Temporal
  - 9 Which test is used to assess visual-motor functioning in children?  
(i) MRI (ii) Wechsler's Memory Scale  
(iii) Bender Gestalt (iv) PET
  - 10 Identify the scan which measures brain activity through injecting a radioactive glucose that allows to observe the brain's functioning.  
(i) MRI (ii) PET  
(iii) CAT (iv) EEG

Cont...

**SECTION - B (35 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 7 = 35)

- 11 a State the functions of Meninges.  
OR  
b Explain the scope of Neuro Psychology.
- 12 a Analyse the limitations of Broca's Aphasia.  
OR  
b Sketch out the changes in motivational and emotional behaviour of Seizures.
- 13 a Show the anatomy & functional organisation of the Anterior Parietal lobe.  
OR\*  
b Discuss the disorders of Spatial Orientation.
- 14 a Classify the types of learning disabilities.  
OR  
b State the visual pathway dysfunctions.
- 15 a Illustrate the use of CT scan.  
OR  
b Justify the rationale behind using Halstead Reitan battery.

**SECTION - C (30 Marks)**

, Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Elucidate the common Neurological disorder.
- 17 Differentiate the various language dysfunctions.
- 18 Compare the dysfunctions of the Anterior Parietal lobe with that of Posterior Parietal Lobe.
- 19 Enumerate the Non Language Learning Disabilities.
- 20 A student of std X meets with an accident with injuries to the head. On recovery after 2 months, which tests would a clinical psychologist use to assess memory? Give reasons.

Z-Z-Z

END