



Salem, Tamil Nadu.

## DEPARTMENT OF PHYSIOLOGY

### Instructions for 3<sup>rd</sup> IA examination

**Date:** 24.06.2020

**Marks:** 50

**Time:** 10.00 – 12.00 AM

**Topics:** Central nervous system and Special senses

**Mode:** Online, Google Class room

#### Instructions:

- Google forms for MCQs will be posted on 'MEVID20 PHYSIOLOGY' whatsapp group.
- Questions for essay, short notes and short answers will be posted on Google class room. **Except for MCQs, all other answers should be written on A4 sheets.**
- Write your name & roll number on the first page of essay, short notes and short answers with page numbers on all pages.
- Section number and question numbers should be written correctly or else you will be given negative marks.
- At the end of the prescribed duration for each type of question (except MCQs), **take photo of your answers with cam scanner & upload it in only PDF form in the Google classroom & submit.**
- All pages used for essay question should be arranged according to page number in same positions & then take photos of them in serial order. After taking all the photos, name the file as **\_YOUR NAME, ROLL NUMBER @ ESSAY** and you can upload.  
For uploading the file, click on upload button & choose "Select from your device". Select your file. Once file is shown in the Google classroom, click upload & then submit.
- Repeat the same procedure for short notes & short answers.

## **TIMELINE FOR EXAMINATION**

- Google form for **MCQ** will be posted on ‘MEVID20 PHYSIOLOGY’ whatsapp group at **10.00 AM**. All should submit it by **10.10 AM**. Form will closed by **10.12 AM**. **Form will not be reopened at any case**.
- **Essay** question will be posted on Google class room at **10.10 AM**. 30 minutes is the time (**10.40 AM**) to write your answer. Within next 10 minutes (**10.50 AM**) you should upload your answers. (**Late submission will be considered as Zero marks**).
- **Short notes** will be posted on Google class room at **10.50 AM**. 30 minutes is the time (**11.20 AM**) to write your answers. Within next 10 minutes **11.30 AM** you should upload your answers. (**Late submission will be considered as Zero marks**).
- **Short answers** will be posted on Google class room at **11.30 AM**. You have 20 minutes time (**11.50 AM**) to write your answers. Within next 10 minutes (**12.00 AM**) you should upload your answers. (**Late submission will not be considered as Zero marks**).

**NOTE:** Make sure about your net connectivity on 24.06.2020 for your exam for uploading the files & submitting the forms. **No excuses will be entertained.**



VINAYAKA MISSION'S  
**KIRUPANANDA VARIYAR  
MEDICAL COLLEGE & HOSPITALS**

**Salem – 63608**

**Department of Physiology**

**I MBBS 3<sup>rd</sup> IA Exam (19 – 20 Batch)**

**Online exam**

**Section B**

**Short answers:**

**(5 X2 = 10)**

1. What are EPSP & IPSP? Give an example of one neurotransmitter for each.
2. Brown-sequard syndrome
3. What is an otolithic organ? What are its functions?
4. Papez circuit
5. Trace the taste pathway with a neat diagram



VINAYAKA MISSION'S  
KIRUPANANDA VARIYAR  
MEDICAL COLLEGE & HOSPITALS

**Salem - 63608**

**Department of Physiology**

**I MBBS 3<sup>rd</sup> IA Exam (19 – 20 Batch)**

**Online exam**

**Section B**

**Essay:**

**(1 X 15 = 15)**

1. A 50 year old man had headache and vomiting. As he walked he staggered; his gait was broad based and he drifted to the left. His mental status was normal nystagmus to the left on attempted horizontal gaze to the left was present. Cranial nerve exam was normal. Muscle strength in the limbs, deep tendon responses and muscle tone were reduced slightly on the left. There was also intention tremor, incoordination of movements in upper and lower limbs. There was disorganization in alternating movement tests of the left hand. Sensory exam was normal and he was not able to stand with heels together with eyes open or closed. **(1+2+4+4+2+2=15)**
  - a. What is your diagnosis? Justify your answer.
  - b. Explain in detail the functional divisions of the organ involved.
  - c. Describe the connections & functions of the structure involved, in detail.
  - d. List the symptoms of the lesion & the clinical tests done to assess the function.



VINAYAKA MISSION'S  
KIRUPANANDA VARIYAR  
MEDICAL COLLEGE & HOSPITALS

**Salem – 63608**

**Department of Physiology**

**I MBBS 3<sup>rd</sup> IA Exam (19 – 20 Batch)**

**Online exam**

**Section B**

**Short Notes:**

**(3X5 = 15)**

1. A 60 year old male presented with difficulty in understanding spoken words especially in background of noise or in a crowd. He has been frequently asking others to speak more slowly, clearly and loudly. On examination, there was lateralisation of sound on the right ear in Weber's test & Rinne's test was positive on left and negative on right side.
  - a. Give your diagnosis
  - b. List out the causes for the above disease
  - c. Explain the various tuning fork tests with their significances.
2. Describe the visual pathway with a neat diagram and list the effect of lesions along the pathway and discuss the field defects.
3. Explain in detail the afferents, efferents & internuclear connections of basal ganglia with diagrams.

# CNS, Special senses-MCQs

Department of Physiology

SECTION A MCQs

Time 10 minutes

Marks 10

\* Required

Email address \*

Your email

Which cells act as second order neurons in olfactory pathway? \*

1 point

- Mitral & Tufted cells
- Periglomerular cells
- Bipolar cells
- Granule cells

Which of the following tracts carry sense of position from lower limbs? \*

1 point

- Fasciculus cuneatus
- Fasciculus Gracilis
- Anterior spinothalamic tract
- Lateral spinothalamic tract



Roll number \*

Your answer

Name \*

Your answer

Which property of sensory receptors explains phenomenon of phantom limb? \* 1 point

- Adaptation
- Labeled line principle
- Law of projection
- Specificity

Pupillary constriction can be produced due to all except \* 1 point

- Pinching the nape of the neck
- Accommodation to near vision
- Entering the bright area
- Showing light into the eye



CT scan of a 38 year old male revealed presence of a large tumor in the pituitary region. Patient also complained of restriction in his peripheral field of vision. What could be the probable cause for his visual symptom? \* 1 point

- Lesion in optic radiation due to tumor
- Damage to optic tract due to tumor
- Compression of optic chiasm by the tumor
- Excessive stretching of optic nerve

Which thalamic nucleus is concerned with motor functions? \* 1 point

- Ventroposterior
- Ventroanterior
- Pulvinar
- Anterior

Date of assessment \*

Date

dd/mm/yyyy

Delta waves in EEG are seen in \* 1 point

- Deep sleep

Awake state with eyes open



- Awake state with eyes open
- REM sleep
- Awake state with eyes closed

If a person finds it difficult to differentiate various shades of green colour, what could be the condition he is suffering from? \* 1 point


- Protanomaly
- Protanopia
- Deuteranomaly
- Tritatomaly

Following are the features of upper motor neuron lesions except.. \* 1 point

- Flaccid paralysis
- Positive Babinski sign
- Loss of superficial reflexes
- Exaggerated deep reflexes

Inability of a person to recall past events is termed as \* 1 point

- Anterograde amnesia
- Dementia
- Retrograde amnesia
- Alzheimer's disease

 A copy of your responses will be emailed to the address you provided.

Submit

Never submit passwords through Google Forms.

**reCAPTCHA**

[Privacy](#), [Terms](#)

This content is neither created nor endorsed by Google. [Report Abuse](#) - [Terms of Service](#) - [Privacy Policy](#).

Google Forms

