

J.M.S

Set No. : 1

Question Booklet No.

RET/17/TEST-B

646

Neurology

(To be filled up by the candidate by blue/black ball point pen)

Roll No.

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Roll No. (Write the digits in words)

Serial No. of OMR Answer Sheet

Day and Date

(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

1. Within 30 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, Bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
2. Do not bring any loose paper, written or blank, inside the Examination Hall *except the Admit Card without its envelope.*
3. *A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.*
4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
5. *On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.*
6. *No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet no. on the Question Booklet.*
7. *Any change in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.*
8. *This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.*
9. For each question, darken only **one** circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
10. *Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).*
11. For rough work, use the inner back pages of the title cover and the blank page at the end of this Booklet.
12. *Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.*
13. You are not permitted to leave the Examination Hall until the end of the Test.
14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

Total No. of Printed Pages : 20

ROUGH WORK

रफ़ कार्य

Research Entrance Test-2017

No. of Questions : 50

प्रश्नों की संख्या : 50

Time : 2 Hours

Full Marks : 200

समय : 2 घण्टे

पूर्णाङ्क : 200

Note: (1) This Question Booklet contains **40** Multiple Choice Questions followed by **10** Short Answer Questions.

इस प्रश्न पुस्तिका में **40** वस्तुनिष्ठ व **10** लघु उत्तरीय प्रश्न हैं।

(2) Attempt as many MCQs as you can. Each MCQ carries **3 (Three)** marks. **1 (One)** mark will be deducted for each incorrect answer. **Zero** mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.

अधिकाधिक वस्तुनिष्ठ प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक वस्तुनिष्ठ प्रश्न **3 (तीन)** अंकों का है। प्रत्येक गलत उत्तर के लिए **1 (एक)** अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। यदि वस्तुनिष्ठ प्रश्नों के एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।

(3) Answer only **5** Short Answer Questions. Each question carries **16 (Sixteen)** marks and should be answered in **150-200** words. Blank **5 (Five)** pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

केवल **5 (पाँच)** लघुउत्तरीय प्रश्नों के उत्तर दें। प्रत्येक प्रश्न **16 (सोलह)** अंकों का है तथा उनका उत्तर **150-200** शब्दों के बीच होना चाहिए। इसके लिए इस पुस्तिका में लगे हुए सादे **5 (पाँच)** पृष्ठों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ठ से, प्रश्न संख्या लिखकर शुरू करें।

- 01.** Which kidney Disease is a "Global Public Health" Problem Worldwide ?
- (1) Acute Kidney Injury (AKI)
 - (2) Kidney Stone
 - (3) Chronic Kidney Disease (CKD)
 - (4) Renal Papillary Necrosis
- 02.** Which Virus affects mainly Human Immune System ?
- (1) Hepatitis A Virus (HAV)
 - (2) Parvo Virus B19
 - (3) Cytomegla Virus (CMV)
 - (4) Human Immunodeficiency Virus (HIV)
- 03.** Which BHU Alumnus is honoured with "Bharat Ratna" ?
- | | |
|---------------------|-------------------------|
| (1) Prof.K.N.Udappa | (2) Prof.O.N.Srivastava |
| (3) Prof.C.N.R.Rao | (4) Prof.R.D.Dwivedi |
- 04.** Which of the following drug is used as "Immunosuppression" ?
- | | |
|-------------------|------------------|
| (1) Citrofloxocin | (2) Aspirin |
| (3) Ampicellin | (4) Cyclosporine |
- 05.** The Probability of a particle to cross a barrier of height more than the kinetic energy of the particle is :
- | | |
|--------------------------|---------|
| (1) zero | (2) one |
| (3) between zero and one | (4) 50% |

06. Deficiency of which of the following mineral nutrients induces dental carries and mottled enamel ?
- (1) Molybdenum (2) Cobalt
(3) Fluorine (4) Iron
07. Oxidation number of Iodine is highest in which compound ?
- (1) KI (2) KI₃
(3) IF₅ (4) KIO₄
08. In which part of our body, antibodies are formed ?
- (1) Brain (2) Lungs
(3) Bone marrow (4) Spleen
09. Which of the following sensations is not generated by impulses initiated in naked nerve endings ?
- (1) Touch (2) Pain
(3) Cold (4) Smell
10. Sound cannot travel through :
- (1) Air (2) Water
(3) Fire (4) Vacuum
11. Oculomasticatory Myorhythmia is pathognomonic of :
- (1) Huntington's disease (2) Whipple's disease
(3) Wilson's disease (4) Diffuse lewy body disease

12. Violent dream-enacting behaviour during sleep, causing injury to self or bed partner occurring in an elderly man is suggestive of :
- (1) Seizure (2) Confusional arousal
(3) REM behaviour disorder (4) Sleep terror
13. Ipsilateral oculomotor nerve palsy with contralateral hemiplegia is seen with :
- (1) Weber's syndrome (2) Nothnagel's syndrome
(3) Claude's syndrome (4) Benedikt's syndrome
14. Recurrent early falls is seen with which of the following conditions :
- (1) Parkinsons disease (2) Alzheimer's disease
(3) Frontotemporal dimentia (4) Progressive supranuclear palsy.
15. Facial antiofibromas, depigmented nevi. seizures are found in :
- (1) Sturge weber syndrome (2) Tuberos sclerosis
(3) Neurofibromatosis (4) Angleman's disease
16. Inspiratory stridor is seen in which of the following disorders :
- (1) Multiple System Atrophy
(2) Progressive supranuclear Palsy
(3) Parkinson's Disease
(4) Fronto Temporal Dementia

17. Early disinhibited behaviour is seen in :
- (1) Alzheimer's Disease
 - (2) Fronto Temporal Dementia
 - (3) Progressive Supranuclear Palsy
 - (4) Parkinson's Disease Dementia.
18. Which ataxia is also called Lincoln's ataxia ?
- (1) SCA 5
 - (2) episodic ataxia 1
 - (3) SCA12
 - (4) Freidreich's ataxia
19. Which of the following parkinsonism syndrome has an asymmetrical onset ?
- (1) drug induced parkinsonism
 - (2) Multiple system atrophy
 - (3) Progressive supranuclear palsy
 - (4) corticobasal syndrome
20. The dentorubral and dentothalamic pathways are carried in :
- (1) Superior cerebellar peduncle
 - (2) middle cerebellar peduncle
 - (3) inferior cerebellar peduncle
 - (4) fasciculus gracilis
21. Kennydey's disease is an :
- (1) Autosomal recessive
 - (2) X-linked
 - (3) Associated with a contraction of D4Z4 region on 4q
 - (4) Associated with abnormalities in the nesprin gene

- 22.** Jaundice with prominent neuropsychiatric features is seen in :
- (1) Vascular dementia
 - (2) Huntingtons disease
 - (3) Wilsons disease
 - (4) Sydenhams chorea
- 23.** Which of the following muscle disorders may have asymmetric involvement ?
- (1) becker's muscular dystrophy
 - (2) myotonic dystrophy
 - (3) fascio scapulo humeral muscular dystrophy
 - (4) hypothyroid myopathy.
- 24.** Winging of scapula is found in which muscle disease :
- (1) polymyositis
 - (2) duchenne muscular dystrophy
 - (3) emery driefuss muscular dystrophy
 - (4) calpainopathy
- 25.** Anti-musk antibody positive MG is associated with :
- (1) predominant cranial and bulbar involvement
 - (2) good response to ChE inhibitors
 - (3) is usually associated with thymoma
 - (4) predominantly affects males

26. Dense hemiplegia is found in :

- (1) corona radiata lesions.
- (2) internal capsule lesion
- (3) thalamic lesions.
- (4) brainstem lesions.

27. Papilloedema is found in all the below mentioned conditions except :

- (1) idiopathic intracranial hypertension
- (2) cerebral venous thrombosis
- (3) normal pressure hydrocephalous.
- (4) cerebellar space occupying lesion.

28. All of the following is true for wernicke's aphasia except :

- (1) non fluent speech
- (2) logorrhoea is present
- (3) paraphasia are present
- (4) word repetition is impaired

29. What percent of frontotemporal dementia have a positive family history ?

- (1) 10%
- (2) 20%
- (3) 50%
- (4) 70%

30. Which of the following is not true for horner's syndrome ?

- (1) Pupillary miosis
- (2) Anhidrosis
- (3) Exophthalmos
- (4) Ptosis

31. Apneustic breathing is seen with lesions of :

- (1) forebrain
- (2) Midbrain
- (3) Dorsolateral pons
- (4) Medullar

- 32.** Asymmetrical fluctuating diplopia and ptosis is a feature of :
- (1) Myotonic dystrophy
 - (2) Myasthenia gravis
 - (3) Fascioscapulohumeral muscular dystrophy
 - (4) CIDP
- 33.** Amnesic syndrome results in impairment of :
- (1) Immediate memory
 - (2) Episodic memory
 - (3) Remote memory
 - (4) Implicit memory
- 34.** Repetition is disproportionately impaired in which aphasia :
- (1) Conduction
 - (2) Transcortical motor
 - (3) Wernicke's
 - (4) Broca's
- 35.** Pure alexia may be seen with lesions of :
- (1) Parietal lobe
 - (2) Frontal lobe
 - (3) Midbrain
 - (4) Splenium of corpus callosum
- 36.** Marcus Gunn pupil is a feature of :
- (1) Optic nerve disease
 - (2) Occipital lobe
 - (3) Parietal lobe
 - (4) Oculomotor nerve lesion
- 37.** Which of the following is not true for Parinaud's syndrome ?
- (1) Upgaze paralysis
 - (2) Light near dissociation of pupils
 - (3) Convergence retraction nystagmus
 - (4) Lesion in ventral midbrain

38. All of following are true for freidreich's ataxia except :
- (1) Autosomal Recessive
 - (2) GCG repeat
 - (3) Loss of proprioception in lower limbs
 - (4) Absent reflexes in lower limbs
39. Which of the following episodic ataxias is associated with hemiplegic migraine ?
- | | |
|---------|---------|
| (1) EA1 | (2) EA2 |
| (3) EA4 | (4) EA6 |
40. Pisa syndrome is seen in which of the following disorders :
- (1) Multiple System Atrophy
 - (2) Progressive supranuclear Palsy
 - (3) Parkinson's Disease
 - (4) Fronto Temporal Dementia

Short Answer Questions

Note: Attempt any **five** questions. Write answer in **150-200** words. Each question carries **16** marks. Answer each question on separate page, after writing Question Number.

01. Mitochondrial dysfunction in parkinsons disease
02. Genetics of Wilsons disease
03. Procedural memory
04. Neuroanatomical basis of gait disorders
05. Cognitive behaviour therapy in Parkinsons disease
06. Classification of frontotemporal dementias
07. Genetics of stroke
08. Chemokines in epilepsy
09. Pathogenesis of amyotrophic lateral sclerosis
10. Biomarkers in Parkinsons disease MCI

Question No.

Page for Short Answer

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ROUGH WORK

रफ़ कार्य

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली-काली बाल-प्वाइंट पेन से ही लिखें)

1. प्रश्न पुस्तिका मिलने के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
2. परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
3. उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा। केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्नपुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्नपुस्तिका पर अनुक्रमांक और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमति नहीं है।
7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिए आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाढ़ा करना है।
9. प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो संबंधित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
11. रफ कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के अंतिम पृष्ठ का प्रयोग करें।
12. परीक्षा के उपरान्त केवल ओ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दें।
13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।