

FINAL EXAM  
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

## NEURO SURGERY

## PAPER-II

NS/J/18/21/II

Time: 3 hours

Max. Marks:100

IMPORTANT INSTRUCTIONS

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

- |                                              |         |
|----------------------------------------------|---------|
| 1. Spinal AVM:                               | 5+2+3   |
| a) Classification                            |         |
| b) Clinical presentations                    |         |
| c) Angiographic findings                     |         |
| 2. Vain of Galen aneurysm:                   | 4+3+3   |
| a) Classification                            |         |
| b) Presentations                             |         |
| c) Treatment options based on classification |         |
| 3. Dural AV Fistula:                         | 2+2+3+3 |
| a) Classification                            |         |
| b) How to suspect                            |         |
| c) Angiographic findings                     |         |
| d) Treatment options                         |         |
| 4. Split cord malformation:                  | 2+4+2+2 |
| a) Embryological basis                       |         |
| b) Complex spina bifida                      |         |
| c) Neuro orthopedic syndrome                 |         |
| d) Treatment                                 |         |
| 5. Atlanto axial dislocation:                | 5+5     |
| a) Syndromic types                           |         |
| b) Flow chart of management                  |         |
| 6. Spinal injuries:                          | 3+4+3   |
| a) Types of subaxial spinal injuries         |         |
| b) Physiological loading basis of injuries   |         |
| c) Surgical options                          |         |
| 7. Congenital malformative tumours of CNS:   | 2+8     |
| a) Name the tumours                          |         |
| b) Radiological findings                     |         |
| 8. Hydrocephalus in infant:                  | 5+2+3   |
| a) Etiology                                  |         |
| b) Clinical presentations                    |         |
| c) Treatment options                         |         |

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9. Horner's syndrome: 4+4+2  
a) Clinical findings  
b) Causes  
c) Diagnostic approach
10. Cervical disc prolapse at C4/5 Level: 2+3+2+3  
a) Causes  
b) Clinical presentation  
c) MRI findings  
d) Treatment

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