NEUROSURGERY (PART-II/FINAL)

PAPER - III

NS/J/16/21/III

Time : 3 hours
Max. Marks : 100
Important instructions:

• Attempt all quantions in order

- 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:

| | Pain pathways: a) How is sensation carried from big toe to thalamus? b) Pain regulation mechanism c) Enumerate surgical methods to control pain. | 4+4+2 |
|-----|--|-------|
| 2. | Factors affecting surgical site infection in Neurosurgery and methods to minimize it prophylactically. | 5+5 |
| 3. | Role of gene therapy in glioma and, its limitations & success. | 5+5 |
| 4. | Factors affecting progression free survival in glioma. | 10 |
| 5. | Role of Gamma Knife in: a) Pituitary adenoma b) Cerebral AVM c) Functional Neurosurgery | 3+4+3 |
| 6. | a) Enumerate various spine stabilization implants for cervical spine surgery; b) Its selection criteria & c) Limitations of implants. | 4+4+2 |
| 7. | a) Outline various treatment options for AVM of brain;b) Classification of embolising materials; &c) Advantages and disadvantages of each. | 3+4+3 |
| 8. | Indications of brain vascular bypass surgery and techniques related to it with suitable illustration. | 5+5 |
| 9. | Role of microdialysis in neurosurgical illness, its major benefits and limitation. | 4+3+3 |
| 10. | A 45 years old patient had decompressive craniectomy for MCA infarction. a) When will one go for cranioplasty | 5+5 |

b) Various options for cranioplasty.