

NEURO SURGERY

PAPER-III

NS2/D/18/21/III

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. Gamma knife: 3+4+3
 - a) Biophysics and principle.
 - b) Clinical uses in neurosurgery.
 - c) Difference from cyber knife.
2. HIV and Central nervous system: 3+3+4
 - a) Enumerate lesions.
 - b) Pathology of CNS involvement.
 - c) Management of spinal ring lesion in HIV patient.
3. Hydatid disease of brain: 3+3+4
 - a) Causative organism.
 - b) Diagnosis.
 - c) Management.
4. Normal pressure hydrocephalus: 2+2+2+4
 - a) Clinical features.
 - b) Differential diagnosis.
 - c) MRI features.
 - d) Selection of shunt system.
5. Ultrasonic aspirator: 2+3+5
 - a) Principle of operation.
 - b) Components.
 - c) Uses and limitations.
6. Spinal cord stimulation: 3+3+4
 - a) Principles.
 - b) Indications.
 - c) Procedure.

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7. Sir Victor Horsley: 6+2+2
a) Neurosurgical contributions.
b) Non neurosurgical contributions.
c) Components of bone wax.
8. Aneurysm clips: 2+2+2+2+2
a) Types.
b) Materials used in manufacture.
c) Brief history of clips used in neurosurgery.
d) Closing force.
e) Tandem clip.
9. Randomized controlled trial: 3+3+4
a) Aims of RCT.
b) Methods of randomization.
c) Rights of participant.
10. Skill development in young Neurosurgeons: 3+3+2+2
a) Necessity.
b) Ways to fulfill the aim.
c) Benefits of periodic training.
d) Opinion and suggestion.
