NEURO SURGERY (PART-II/FINAL) PAPER-III

Time: 3 hours NS2/J/20/21/III

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.	Diffusion weighted MRI in Neurosurgery: a) Principles and applications b) Role in brain tumour characterization c) Clinical applications in paediatric neurosurgery	4+3+3
2.	Spinal fusion techniques: a) Techniques of minimally invasive lumbar spine fusion. b) Current concepts in dynamic stabilization techniques.	6+4
3.	a) Indications and mechanism of Deep brain stimulation (DBS).b) Advantages of DBS.	6+4
4.	Role of stem cells in Neurosurgery: a) Principles.b) Clinical applications.c) Ethical considerations.	4+3+3
5.	Describe Scientific contributions to Neurosurgery: a) Victor Horsley.b) Walter Dandy.c) Cloward.	4+3+3
6.	Tuberculosis of spine:a) Pathophysiology.b) Current techniques in diagnosis.c) Current concepts in management including newer drugs.	3+3+4
7.	Endonasal endoscopic surgery: a) Indications and contraindications. b) Complications.	3+4+3
	c) Hadad-Bassagasteguy flap.	P.T.O

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8.	a) Management options in intracranial aneurysm.b) Recent advances in management of giant intracranial aneurysm.	5+5
9.	Recurrent GBM: a) Diagnosis. b) Indications for surgery c) Timozolamide	3+3+4
10.	Neurosurgical operating microscope: a) Basic requirements. b) Advanced functions. c) Future developments anticipated.	4+3+3
