

National Board of Examinations

Question Paper Name :	DrNB Neuro Anaesthesia Paper2
Subject Name :	DrNB Neuro Anaesthesia Paper2
Creation Date :	2021-08-25 22:34:31
Duration :	180
Total Marks :	100
Display Marks:	No

DrNB Neuro Anaesthesia Paper2

Group Number :	1
Group Id :	327187365
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

DrNB Neuro Anaesthesia Paper2

Section Id :	327187368
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory

Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	327187372
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 3271872171 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Enumerate the potential causes of delayed emergence after a posterior fossa surgery. [5]
- b) Elucidate your management strategy for this possible situation. [5]

Question Number : 2 Question Id : 3271872172 Question Type : SUBJECTIVE

Correct Marks : 10

A 25-year-old female patient, with complaints of headache and seizures (no co-morbidities) is posted for awake craniotomy and excision of a lesion near the eloquent area.

- a) Enumerate the potential complications that can occur during the surgery. [3]
- b) What will be your prevention and treatment strategy for these complications? [7]

Question Number : 3 Question Id : 3271872173 Question Type : SUBJECTIVE

Correct Marks : 10

A 55-year-old female patient of rheumatoid arthritis presented with atlanto-axial subluxation, severe spinal canal stenosis, and marked spinal cord compression. She is scheduled for multimodal intraoperative neurophysiological monitoring [IONM] guided C1-C2 fixation procedure (Translaminar C2 screws and C1 lateral mass screws) in the prone position.

- a) Enumerate all the aspects in relation to her preoperative evaluation. [5]
- b) Intraoperatively, there is a decline in the amplitude of ulnar somatosensory evoked potentials (SSEPs). How will you respond to this situation? [5]

Question Number : 4 Question Id : 3271872174 Question Type : SUBJECTIVE

Correct Marks : 10

A 12-month-old, 7.0 kg infant with Apert Syndrome and bilateral coronal and lambdoidal craniosynostosis, is scheduled for a total calvarial vault reconstruction.

- a) Enumerate the perioperative concerns. [4]
- b) Describe the management strategy for a possible massive blood loss during the intraoperative period. [6]

Question Number : 5 Question Id : 3271872175 Question Type : SUBJECTIVE

Correct Marks : 10

What are the factors that influence post-craniotomy pain? Enumerate the treatment options for post-craniotomy pain. Describe the technique of "Scalp block". [2+2+6]

Question Number : 6 Question Id : 3271872176 Question Type : SUBJECTIVE

Correct Marks : 10

A 32-years-old female patient with 25 weeks of pregnancy, is scheduled for coil embolization of a ruptured posterior communicating artery aneurysm.

- a) What precautions should you take to reduce the risk of radiation exposure to the mother and fetus during the procedure? [4]
- b) Briefly discuss your management strategy if an aneurysmal bleed occurs during the interventional procedure. [6]

Question Number : 7 Question Id : 3271872177 Question Type : SUBJECTIVE

Correct Marks : 10

- a) Use of balanced salt solutions in neurosurgery. [3]
- b) Use of dextrose containing solutions in neurosurgery. [3]
- c) Use of colloids in neurosurgery. [4]

Question Number : 8 Question Id : 3271872178 Question Type : SUBJECTIVE

Correct Marks : 10

Enumerate the potential causes of sudden, massive brain swelling during intracranial surgery.

Briefly discuss the management strategy for this complication. [3+7]

Question Number : 9 Question Id : 3271872179 Question Type : SUBJECTIVE

Correct Marks : 10

A "difficult airway" is an important anesthetic concern during endonasal transphenoidal resection of pituitary tumor in a patient with acromegaly. What are the factors that contribute to this "difficult airway"? Describe the preoperative evaluation and perioperative airway management strategy for this patient? Discuss with reasoning on the postoperative use of continuous positive airway pressure (CPAP) in such patients with a history of obstructive sleep apnea (OSA). [3+5+2]

Question Number : 10 Question Id : 3271872180 Question Type : SUBJECTIVE

Correct Marks : 10

A 20-year-old patient is scheduled for resection of an arteriovenous malformation (Grade 3 supplemented Spetzler Martin score). Enumerate the potential perioperative complications and the strategies to prevent these complications. [3+7]