

National Board of Examinations

Question Paper Name :	DrNB Neuro Anaesthesia Paper1
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DrNB Neuro Anaesthesia Paper1

Group Number :	1
Group Id :	3271872781
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100

DrNB Neuro Anaesthesia Paper1

Section Id :	3271872784
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872788
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718736464 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Please write your answers in the answer booklet within the allotted pages as follows:-

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. Differentiate between:

- Primary and secondary brain injury. [5]
- Necrosis and apoptosis. [5]

Question Number : 2 Question Id : 32718736465 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- Discuss the venous drainage of the brain. [5]
- Which surgical position is associated with the highest risk of venous air embolism? [1]
- Why is the risk of venous air embolism highest in this position? [4]

Question Number : 3 Question Id : 32718736466 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- What is cerebral autoregulation? [3]
- Enumerate the neuromonitoring modalities for monitoring cerebral autoregulation. [4]
- What is the difference between static and dynamic autoregulation? [3]

Question Number : 4 Question Id : 32718736467 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- Describe the functional anatomy of the brain in relation to endoscopic third ventriculostomy. [5]
- Discuss the perioperative complications of endoscopic third ventriculostomy. [5]

Question Number : 5 Question Id : 32718736468 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- Effect of intravenous and inhalational agents on cerebral physiology. [6]
- Role of remifentanyl in neurosurgery. [4]

Question Number : 6 Question Id : 32718736469 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- Pain pathways. [5]
- Role of multimodal analgesia in spine surgeries. [5]

Question Number : 7 Question Id : 32718736470 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Blood brain barrier and its importance. [3]
- b) Use of dextrose solution, ringer lactate and iso-osmolar fluids. [3]
- c) Mannitol and hypertonic solution. [4]

Question Number : 8 Question Id : 32718736471 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Intraoperative brain bulge:

- a) Pathophysiology. [4]
- b) Management. [6]

Question Number : 9 Question Id : 32718736472 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the physiological principles and interpretation of data obtained from jugular oximetry. [5]
- b) What are the advantages and limitations of this technique. [5]

Question Number : 10 Question Id : 32718736473 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe the pharmacology of dexmedetomidine. [5]
- b) Discuss the uses of dexmedetomidine in neuroanaesthesia and neurocritical care. [5]