

National Board of Examinations

Question Paper Name :	DNB Forensic Medicine Paper1
Subject Name :	DNB Forensic Medicine Paper1
Creation Date :	2023-10-15 14:11:55
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DNB Forensic Medicine Paper1

Group Number :	1
Group Id :	3271872498
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DNB Forensic Medicine Paper1

Section Id :	3271872501
Section Number :	1
Section type :	Offline

Mandatory or Optional :	Mandatory
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872505
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718725213 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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. A tragic incident of deaths of a number of neonates in a NICU of a private nursing home due to faulty oxygen supply was reported.

- Describe the various structures of the brain in a coronal section through the mamillo-thalamic tract. [3]
- Mention the parts of the brain most suitable for seeking histo-pathological changes in such cases. [3]
- What are the gross and histo-pathological changes that you will expect to find at autopsy? [4]

Question Number : 2 Question Id : 32718725214 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

Explain the term asphyxiophilia. Discuss the psychosocial physiological basis, cause and manner of death and autopsy findings in these cases. [4+6]

Question Number : 3 Question Id : 32718725215 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

Discuss the pathophysiology, gross and microscopic autopsy findings and biochemical markers of DIC. Discuss the pathological features of maternal death from HELLP syndrome. [6+4]

Question Number : 4 Question Id : 32718725216 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

Describe the various criteria's and infrastructure requirement for the various Biosafety levels (BSL) as per International guidelines. Name the bio-hazardous agents for different Biosafety levels. How will you create an autopsy room to undertake COVID like cases? [4+2+4]

Question Number : 5 Question Id : 32718725217 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

a) 3rd generation sequencing in criminal investigations. [5]

b) Ewing's postulates. [5]

Question Number : 6 Question Id : 32718725218 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

Describe the various methods of dental age estimation in the living. Discuss why the Demirjian method is considered as gold standard in DAE. [5+5]

Question Number : 7 Question Id : 32718725219 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Vitreous humor is the ideal sample for various postmortem biochemical analysis:

- a) Explain why the above statement is true by giving examples. [5]
- b) Discuss the use of vitreous humor chemistry in estimating time since death. [5]

Question Number : 8 Question Id : 32718725220 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

An adult woman was brought to the hospital with prolonged history of grass pea consumption followed by acute onset spastic paralysis:

- a) Identify the condition given in the clinical scenario. [1]
- b) What is the causative agent and toxin involved and its mechanism of action? [3]
- c) Write down the signs and symptoms, prevention, diagnosis and management of the case. [6]

Question Number : 9 Question Id : 32718725221 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

- a) Give your commentary on the evolution of Forensic radiology from X-rays to deep learning methods for death investigation. [5]
- b) Describe the radiological methods of Greulich-Pyle method and Tanner and Whitehouse methods of bone age estimation. [5]

Question Number : 10 Question Id : 32718725222 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Critically analyze the method of psychological autopsy in criminal investigations. Briefly discuss the role of criminal psychology and criminal profiling. [5+5]