National Board of Examinations

Question Paper Name :	DNB Pharmacology Paper3
Subject Name :	DNB Pharmacology Paper3
Duration :	182
Total Marks :	100
Display Marks:	No
Maximum Instruction Time :	0
Is Section Default? :	No

Question Number : 1 Question Id : 32718745064 Consider As Subjective : Yes

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. What is CCSEA? Describe its functions. What are the methods of euthanasia approved for rodents as per CCSEA guidelines? [2+3+5]

Question Number : 2 Question Id : 32718745065 Consider As Subjective : Yes

What are radioimmunoassay studies? Describe their principle, advantages and limitations. [2+(3+3+2)]

Question Number : 3 Question Id : 32718745066 Consider As Subjective : Yes

Explain the principle of recombinant DNA technology. Describe its applications in pharmacotherapy. [2+8]

Question Number : 4 Question Id : 32718745067 Consider As Subjective : Yes

What are biosensors? Write their applications in drug development and pharmacotherapy. [2+(4+4)]

Question Number : 5 Question Id : 32718745068 Consider As Subjective : Yes

Discuss the aims, methodology and limitations of acute toxicity studies done on animals. [3+4+3]

Question Number : 6 Question Id : 32718745069 Consider As Subjective : Yes

What is 'Real World Data'? How real-world clinical trials differ from traditional clinical trials? [2+8]

Question Number : 7 Question Id : 32718745070 Consider As Subjective : Yes

Describe the principle and uses of following:
a) Student's t-test. [2.5]
b) Analysis of Covariance. [2.5]
c) Kaplan-Meier curves. [2.5]
d) Pearson's r. [2.5]

Question Number : 8 Question Id : 32718745071 Consider As Subjective : Yes

Describe the various experimental evaluation methods to screen a potential analgesic drug. [10]

Question Number : 9 Question Id : 32718745072 Consider As Subjective : Yes

Mention the required documents/data that need to be submitted to the drug regulators for obtaining IND approval. Discuss the battery of safety studies conducted before IND application. [3+7]

Question Number : 10 Question Id : 32718745073 Consider As Subjective : Yes

Discuss the basic ethical principles in clinical trials. What are the different types of reviews done by IEC based on study types? Which types of studies can apply for waiver of ethical approval? [5+3+2]