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PHARMACOLOGY

PAPER-IV

Time: 3 hours Max. Marks: 100

DECEMBER 2019

PHARM/D/19/34/IV

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.	Give an outline about calculation of compensation if the trial participant suffers serious adverse event in a clinical trial. Add a note on the recommended time line of paying compensation by the sponsor after a trial related serious adverse event.	7+3
2.	Write briefly how you would help the sponsor to establish a BA-BE study Centre for regulatory BA-BE studies following newer rules in India.	7+3
3.	Describe with examples the mechanisms of action of siderophore antibiotics. How could these agents be used to overcome bacterial resistance?	7+3
4.	Write in brief about recent advances in the treatment of rheumatoid arthritis. How can you prevent some of the adverse effects of biologics?	8+2
5.	Discuss briefly about the newer anticoagulants. What are their advantages and disadvantages compared to conventional anticoagulants?	6+4
6.	Write a brief note on ethical considerations on research involving bio banking. Give your comments on broad vis-a vis blanket consent for using human biomaterials.	6+4
7.	Enumerate the principles of research among vulnerable population according to recent changes in ethical guidelines in India. What are the protective mechanisms to safeguard their interest?	6+4
8.	Elaborate with examples the recent advances, future prospects and challenges of antisense oligonucleotide therapy.	6+2+2
9.	Enumerate the essential and additional elements of informed consent documents according to recent Indian Guidelines. In which conditions Ethics Committee may grant waiver of consent?	7+3
10.	Give an outline of expedited drug approval pathways. Make a brief note on application of artificial intelligence in pharmacovigilance.	5+5