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SEAT No. _____

No of printed pages:02

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SARDAR PATEL UNIVERSITY
M.Sc. (Organic Chemistry) Semester-IV Examination
Tuesday, 26th March-2019
PS04EORC22: Applied Organic Chemistry

Time: 02:00 P.M to 05:00 P.M

Total Marks: 70

N.B. Figures to the right of each of the question indicate marks

Q-1 Select correct option from the following.

[08]

- The role of _____ is to coordinate the team's activities throughout the review process, and is the primary contact for the sponsor.
(a) Chemist (b) Medical Officer
(c) Project Manager (d) Pharmakinetacist
- The herbicide name 2,4-D is stands for _____
(a) 2,4-Dichlorophenoxyacetic acid (b) 2,4-Diphenoxyacetic acid
(c) 2,4-Dibromophenoxyacetic acid (d) 2,4-Dichloroacetic acid
- PAHs expression is uses for
(a) Polymeric Aromatic Hydrocarbons
(b) Polycyclic Aromatic Hydrogen
(c) Polycyclic Aromatic Hydrocarbons
(d) Polymeric Acyclic Hydrocarbons
- The replacement of CFC is
(a) HCFC (b) FCFC
(c) HFCFC (d) NCFC
- Duquenois-Levine test is used for _____
(a) RDX (b) Cocaine
(c) Nicotine (d) Marijuana
- To detect blood at a crime scene, _____ is used.
(a) Luminol (b) Nitro benzene
(c) Luxinol (d) Alcohol
- Friedel-Crafts alkylation is catalyzed by _____
(a) NaBr (b) NaCl
(c) HCl (d) AlCl₃
- Doebner modification is carried out in presence of _____
(a) Pyridine (b) Acetic acid
(c) Hexane (d) Ethanol

[P.T.O.]

- Q-2 Write answer in short (Any seven) [14]
1. List out various steps for the drug discovery.
 2. List out the natural fungicides and explain its role.
 3. Write a note on DDT with its uses.
 4. Explain the term persistence poisons.
 5. Explain the term PAHs and its effect.
 6. How one can test blood for forensic science?
 7. Explain the term poisoning.
 8. What is the phase transfer catalysis? Explain with example.
 9. What are the enzymes?
- Q-3 [A] What is IND process? Explain the role of various IND review team members? [06]
[B] What are the herbicides? Give the name of any two herbicides and explain any one of them. [06]
- Or
- [B] Explain briefly the various phase for clinical research?
- Q-4 [A] Classify the various types of pesticides and there target paste group. [06]
What are the benefits of pesticides?
[B] What is green chemistry? Write down the principles of green chemistry. [06]
- Or
- [B] Give the brief note on endocrine disruptor.
- Q-5 [A] What are the drug abuses? Explain any three in detail. [06]
[B] Discuss the presumptive test for the presence of cocaine and marijuana. [06]
- Or
- [B] Explain the process for finger print visualization.
- Q-6 [A] Give the two examples of acid catalysis reaction and explain its mechanism. [06]
[B] Explain the friedel-craft alkylation by catalysis of Lewis acid, with mechanism. [06]
- Or
- [B] Explain the mechanism of knoevenagel condensation, and discuss in detail about Doebner modification.

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