QP Code: | 219301 | Reg. No.: ....

III Semester B. Pharm(2019 Batch) Degree II Sessional Theory Examinations, September 2021

BP301T - Pharmaceutical Organic Chemistry – II (2017 Scheme)

Time: 1 Hr.30 Min.   Max. Marks: 30

• Answer all questions
• Draw diagrams wherever necessary

Essays   (10 x 1 = 10)
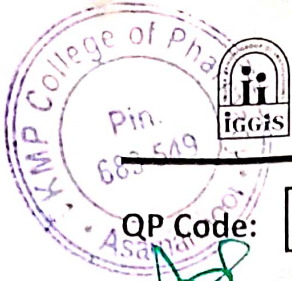
1. Explain the acidity of phenols. Give the effect of substituents on acidity of phenols.

Short Notes   (5 x 2 = 10)

2. Diazotization reaction.

3. Basicity of aryl amines.

Answer Briefly   (2 x 5 = 10)

4. Orbital picture for naphthalene.

5. Baeyer's strain theory.

6. Write any one method of preparation each for   i) phenol   ii) aniline.

7. Give the structure and use of,   i) triphenyl methane   ii) cresol.

8. Write the Haworth synthesis for phenanthrene.

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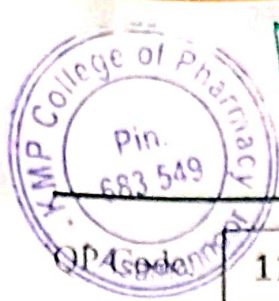
Essays (10×1=10)

1. Explain the derived properties of powder. How they are evaluated.

Short Notes (5 x 2 = 10)

2. What is protein binding. Write its influence on drug activity.

3. Particle size determination by Anderson pipette method.

Answer Briefly (2 x 5 = 10)

4. Describe Angle of Repose

5. What is meant by Carr's index

6. Differentiate between Chelate and an inorganic complex. Give example.

7. What is meant by buffer capacity

8. Isotonic solutions

QP Code: 119301

Roll. No................

III Semester B. Pharm (2019 Batch) Degree II Sessional Examinations, September 2021 BP303T

Pharmaceutical Microbiology (2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

Answer all questions, to the point only. Do not leave any blank pages between answers. Indicat the question number only in the margin space. Draw diagrams / tables / flow charts whereve necessary in full page.

Essay (10 x 1 = 10)

1. What are the factors affecting microbial spoilage of pharmaceutical products?
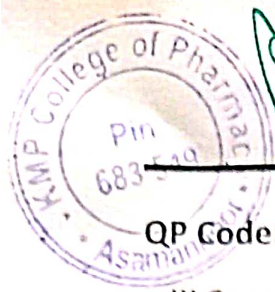
Short Notes (5 x 2 = 10)

2. Steps involved in animal cell culture.

3. General methods of microbial assay of antibiotics.

Answer briefly (2 x 5 = 10)

4. Short note on Zone of inhibition.

5. Layout of aseptic area.

6. Explain the factors which affect the efficacy of preservatives.

7. Describe the sources, types and assessment of microbial contaminants.

8. Evaluation of microbial stability of pharmaceutical formulation.

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QP Code: | 219304

Reg. No.: ....

III Semester B.Pharm(2019 Batch) Degree II Sessional Theory Examinations, September 2021

BP304T - Pharmaceutical Engineering (2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

• Answer all questions
• Draw diagrams wherever necessary

Essays (10 x 1 = 10)

1. Explain the principle, construction, working, merits and demerits of fractional distillation.

Short Notes (5 x 2 = 10)

2. Notes on pneumatic conveyers.

3. Classify different types materials used in plant construction and briefly discuss about stainless steel and plastics.

Answer Briefly (2 x 5 = 10)

4. State and explain Bernoulli's theorem

5. Explain the theory of solid mixing.

6. Notes on Fourier's law.

7. Explain the application of distillation.

8. What are corrosions and how can it is prevented.

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