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## C.U.SHAH UNIVERSITY

## Summer Examination-2018

Subject Name: Pharmaceutical Validation

Subject Code: MQA202T
Semester: 2 Date: 25/04/2018 Instructions:
(1) Use of Programmable calculator \& any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-I Attempt all the following questions. [2X10]=20
a) Describe in brief Calibration. [2]
b) Explain the term Process Validation. [2]
c) Describe briefly Retrospective Validation. [2]
d) Explain the term Operational Qualification. [2]
e) Describe in brief Performance Qualification. [2]
f) Write the objectives of Cleaning Validation. [2]
g) Describe in brief Trademark. [2]
h) Explain the term Documentation. [2]
i) Explain briefly Claim. [2]
j) Describe briefly Statistical Process control. [2]

Q-II Attempt any two:
[2X10]=20
a) Describe in detail the equipment qualification of FBD.
b) Discuss in detail the performance qualification of autoclave.
c) Explain the validation and qualification of HVAC system.

## Q-III Attempt any seven:

[7X5]=35
a) Write the various phases in process validation.
b) Explain the validation life cycle with the help of flow chart.
c) Write a note validation master plan.
d) Describe bracketing approach during cleaning validation. [5]
e) Explain the various steps for validation and acceptance criteria in [5] wet granulation process for coated tablets.
f) Describe the various types of inventions which are non-patentable in India?
g) Write the general rules for PCT.
h) Write a short note on patent licensing. [5]
i) Describe the benefits of IPRs to improve the quality of research [5] work.

