(5 x 2)

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M.PH 2 nd Semester Regular/Back Examination 2018-19 PHYTO-PHARMACEUTICAL ANALYSIS BRANCH: ANALYSIS & QUALITY ASSURANCE Time: 3 Hours Max Marks: 70 Q.CODE: F400 Answer Question No.1 which is compulsory and any FIVE from the rest. The figures in the right hand margin indicate marks.														.PH2C.5
Q1	a) b) c) d) e) f) g) h) i)	What is fractional distillation and its working principle? Name the Visualizing agents used in TLC for the detection of Alkaloids and amino acids. Write the formula for determination of percentage purity of a drug by using lycopodium spore method. What is Extractive value and its significance? What are disintegrating agents and its importance in microscopy technique? Water, Petroleum ether, benzene, methanol, acetone and chloroform, arrange these solvents in increasing order of polarity. Give two examples of Bio target molecules used in HTS Technique.												
Q2	a) b)													
Q3	a) b)	· · · · · · · · · · · · · · · · · · ·												
Q4	a) b)	Write down the role of HTS in new drug discovery from natural product. Classify the Ayurvedic formulations with suitable examples. Write down the procedure for determination of pH of a liquid herbal formulation.												(5) (5)
Q5	a) b)	Write a notes on Stomatal number and Stomatal index. Explain the different primary factors responsible for deterioration of storage crude drugs.												(5) (5)
Q6		Write in details about the different physical and chemical methods useful for isolation and separation of phytoconstituents from a crude drug.												(10)
Q7		Write about the me	ethode	ology	adop	ted to	o find	out t	ne an	timicr	obial	activ	ity of plant products.	(10)

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Q8

Explain with examples.

Write short notes (any TWO):
a) What are different microchemical testing of a drug and its advantages?

b) Determination of bitterness principle of a crude drug as per WHO protocolc) What is super critical fluid and how it is useful for extraction of phytochemicals.