406268 **Item Bank Name** **Process Instrumentation/BE Instrumentation and Control/2015**

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
When composition of the distillate is more important, it is desirable to maintain a constant temperature in the …….section of distillation column.	Upper	Lower	Both Upper and Lower	Central
The benefits of better control of distillation column are:	Increased throughput	Increased product recovery	Energy conservation	All of above
In distillation, overhead product contains	only one component	two components	any number of components	only saturated liquid
The basic objective of the control system of batch distillation is to keep the composition of the …….. Constant.	Distillate	Bottoms Product	Feed	Level
Bottoms level should not be controlled with ……..flow.	Steam	Bottoms Product	Reboiler heat	Distillate
In distillation column …….measurement often can be used to infer composition.	Pressure	Temperature	Level	Flow
For a two-product fractionator, distillation temperature is an indication of composition only when column pressure remains……	Variable	Proportional	Inversely Proportional	Constant

It is the control of the composition of the product, which is often the objective, direct control by an analyzer controller would seem to be…….. than indirect control by temperature.	Poor	Sluggish	Better	Less effective
A flow controller in the feed line of distillation column can maintain a constant	Temperature	Flowrate	Composition	Ratio
If feed rate disturbances must be accepted by the column,a ……. system can be used to minimize the impact of these disturbances.	Feedforward Control	Feedback Control	Cascade	Selective
A distillation column has anywhere from four to six control loops, which need to be optimally configured if the column is to be ……..and meet its performance objectives.	Unstable	Marginallly Stable	Stable	Exponential
In a multiple effect evaporator with more than one effect, the size of each effect should ----------.	Decrease if pressure decreases	Increase if pressure decreases	Remains same	increase if pressure increases
In which multi-effect evaporator arrangement product is obtained at lowest temperature?	Mixed feed arrangement	Parallel feed arrangement	Backward feed arrangement	Forward feed arrangement
In which drying process the heat is directly allowed over the solids?	Batch	Continuous	Semi-batch	Batch and continous
In dryer control system which process variable is controlled?	Humidity	Moisture	Temperature	Heat media

In which dryer solids are exposed to the hot surface ?	Adiabatic dryer	Non-Adiabatic dryer	Fluidized bed dryer	Spray dryer
Drying is commonly the ---------- in a manufacture process.	first stage	intemediate stage	last stage	any stage
In drying processes, the main operation usually carried out on ---------- materials.	liquid	gas	solid	any type
Which dryer type is used for producing a dry powder from a liquid or slurry by rapid drying with a hot gas?	Drum	fluidized bed	tray	spray
A----------is a device that uses rotation, gravity and hot gases to dry a material.	Spray dryer	rotary dryer	drum dryer	tray dryer