Course Code: 16AG722



Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: FPPD (16AG722) Course & Branch: B.Tech – AGE

Year & Sem: IV-B.Tech & II-Sem Regulation: R16

UNIT –I INTRODUCTION TO PLANT LAYOUT

a) Define plant layout and explain objectives of plant layout	[L1][CO1]	[6M]
b) Explain factors in planning layout?	[L2][CO1]	[6M]
a) Explain methods of layout planning?	[L3][CO1]	[9M]
b) Write about principles of plant layout?	[L3][CO1]	[3M]
a) What is plant layout meaning and importance of plant layout?	[L3][CO1]	[6M]
b) Write advantages and disadvantages of good plant layout and write about site	[L3][CO1]	[6M]
selection for plant layout?		
Explain in detail about the fruit processing plant?	[L3][CO1]	[12M]
Write in detail about salient features of rice processing plant?	[L3][CO1]	[12M]
Write in detail about salient features of maize processing plant?	[L4][CO1]	[12M]
Write in detail about salient features of pulse processing plant?	[L5][CO1]	[12M]
Write in detail about salient features of oilseed processing plant?	[L4][CO1]	[12M]
Write in detail about salient features of horticulture processing plant?	[L4][CO1]	[12M]
Write in detail about salient features of vegetable crops processing plant?	[L5][CO1]	[12M]
	b) Explain factors in planning layout? a) Explain methods of layout planning? b) Write about principles of plant layout? a) What is plant layout meaning and importance of plant layout? b) Write advantages and disadvantages of good plant layout and write about site selection for plant layout? Explain in detail about the fruit processing plant? Write in detail about salient features of rice processing plant? Write in detail about salient features of pulse processing plant? Write in detail about salient features of oilseed processing plant? Write in detail about salient features of oilseed processing plant? Write in detail about salient features of horticulture processing plant?	b) Explain factors in planning layout? a) Explain methods of layout planning? b) Write about principles of plant layout? a) What is plant layout meaning and importance of plant layout? b) Write advantages and disadvantages of good plant layout and write about site selection for plant layout? Explain in detail about the fruit processing plant? Explain in detail about salient features of rice processing plant? Write in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of maize processing plant? Explain in detail about salient features of pulse processing plant? Explain in detail about salient features of oilseed processing plant? Explain in detail about salient features of oilseed processing plant? Explain in detail about salient features of oilseed processing plant? Explain in detail about salient features of oilseed processing plant? Explain in detail about salient features of oilseed processing plant? Explain in detail about salient features of oilseed processing plant? Explain in detail about salient features of oilseed processing plant? Explain in detail about salient features of oilseed processing plant?

UNIT –II SALIENT FEATURES OF DIFFERENT PROCESSING PLANTS

1	Write in detail about salient features of poultry processing plant?	[L4][CO2]	[12M]
2	Write in detail about salient features of fish processing plant?	[L5][CO2]	[12M]
3	Write in detail about salient features of meat processing plant?	[L5][CO2]	[12M]
4	Write in detail about salient features of milk and milk products processing plant?	[L4][CO2]	[12M]
5	a) Define plant location?	[L3][CO2]	[2M]
	b) Explain factors in selecting the plant location?	[L4][CO2]	[10M]
6	a) Write about selection of plant site?	[L3][CO2]	[6M]
	b) Write steps involved in preparation of plant layout?	[L3][CO2]	[6M]
7	a) Explain different selection processes?	[L3][CO2]	[6M]
	b) Write comparison between batch and continuous operation?	[L4][CO2]	[6M]
8	a) Define plant capacity?	[L3][CO2]	[2M]
	b) Explain various plant equipment designations and flow patters?	[L5][CO2]	[10M]
9	a) What is scale-up?	[L2][CO2]	[2M]
	b) Briefly explain the safety factors in plant layout?	[L4][CO2]	[10 M]
10	a) Write different materials required for construction of plant layout?	[L4][CO2]	[6M]
	b) Explain steps involved in scale-up design?	[L3][CO2]	[6M]

UNIT –III PROJECT DESIGN AND DEVELOPMENT

1	a) Explain about process design development with suitable diagram?	[L4][CO3]	[9M]
	b) Define design, process and process design?	[L2][CO3]	[3M]
2	Write general design considerations of process design development?	[L4][CO3]	[12M]
3	Explain cost estimation necessary to estimate process design development?	[L3][CO3]	[12M]
4	Write in detail about factors affecting profitability of investment?	[L3][CO3]	[12M]
5	Explain about optimum design consideration both in economic and	[L3][CO3]	[12M]
	operation?		
6	a) Write in detail about practical consideration in designing project	[L3][CO3]	[6M]
	systems?		
	b) Explain about design approach for project design?	[L4][CO3]	[6M]
7	a) Explain in detail about different types of designs?	[L3][CO3]	[6M]
	b) What is meant by feasibility survey?	[L3][CO3]	[6M]
8	a) Write about process development of design?	[L3][CO3]	[6M]
	b) Enlist design considerations of process design development?	[L4][CO3]	[6M]
9	Write in detail about construction and operation of process design?	[L3][CO3]	[12M]
10	Give in detail explanation of design information from different literature?	[L3][CO3]	[12M]



UNIT –IV FLOW DIAGRAM, PLANT PRILIMINARY DESIGN AND ECONOMICS

1	a) Draw qualitative and quantitative flow diagrams of food processing	[L3][CO4]	[6M]
	layout?		
	b) Explain preliminary design and problem statement of equipment?	[L3][CO4]	[6M]
2	Explain about literature survey, material and energy balance?	[L3][CO4]	[12M]
3	Write in detail about equipment design and selection with suitable	[L3][CO4]	[12M]
	example?		
4	Explain economics and problems carried in selection of equipment?	[L3][CO4]	[12M]
5	a) Define process control?	[L1][CO4]	[2M]
	b) Explain different factors considered for equipment selection?	[L3][CO4]	[10M]
6	Write in detail about instrumentation control, maintenance control and	[L4][CO4]	[12M]
	computer aided system?		
7	Write in detail about handling equipment's and its factors?	[L3][CO4]	[12M]
8	Explain about plant elevation and requirements of plant building and its	[L3][CO4]	[12M]
	components?		
9	Describe briefly the foundation equipment, dynamic loading,	[L4[CO4]	[12M]
	illumination and air-conditioning?		
10	Explain about labor requirements for processing plant and different	[L4][CO4]	[12M]
	transmission systems?		

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UNIT –V FOOD PLANT SANITATION

1	a) Define food plant sanitation?	[L1][CO5]	[4M]
	b) Explain environmental protection and regulations?	[L3][CO5]	[8M]
2	a) Explain pollution control and air pollution act briefly?	[L3][CO5]	[6M]
	b) Explain thermal pollution control briefly?	[L4][CO5]	[6M]
3	Write briefly about recycling and its methods?	[L3][CO5]	[12M]
4	Define CIP and write advantages and disadvantages of CIP?	[L3][CO5]	[12M]
5	Explain cash flow analysis of food plant layout with tree diagram?	[L4][CO5]	[12M]
6	Write in detail of factors affecting investment and production cost?	[L4[CO5]	[12M]
7	Explain about capital investment and estimation of capital investment?	[L3][CO5]	[12M]
8	Define cost index and write about factors affecting in capital investment?	[L3][CO5]	[12M]
9	a) Write about estimation of total product cost?	[L3][CO5]	[10M]
	b) Define feasibility report?	[L2][CO5]	[2M]
10	Write about types of reports and briefly explain about organization of	[L4][CO5]	[12M]
	design report?		

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