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1st Sem / (DVOC) Food Processing
Subject : Food plant Equipment

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. (10x1=10)

Q.1 The permanent mode of deformation of a material known as_____

Q.2 The ability of materials to develop a characteristics behavior under repeated loading known as_____

Q.3 Plasticity is the property opposite to elasticity. (True/False)

Q.4 The S.I. unit of stress is_____.

Q.5 Cast iron and glass are the examples of ductile materials. (True/False)

Q.6 Maximum principle or normal stress theory is also known as_____

Q.7 Maximum strain energy theory is generally used for ductile materials. (True/False)

Q.8 A shaft is generally used to transmit_____

Q.9 Name any two types of bearings.

Q.10 Name any two materials used for making pulley.

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

Q.11 Draw a neat and clean diagram of rising film evaporator and its working principle.

Q.12 Write a brief note on agitators.

Q.13 Write a note on springs.

Q.14 Which factors keep in mind when design a freezing equipments.

Q.15 Define baffles and give its importance.

Q.16 Define the terms evaporator, crystallizer and fermenter.

Q.17 Give working principle and draw a schematic diagram of crystallizer.

Q.18 Discuss mechanical properties of fabrication material.

SECTION-C

Note: Long answer questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 Give working principle of fermenter. Also draw a neat and clean diagram of fermenter and role of different parts.

Q.20 Write a detailed note on pressure relief devices and safety measures in equipment design.