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Dvoc - Level -5
1st Sem / Production Tech.
Subject :GENERAL MECHANICAL ENGINEERING-II

Time : 2 Hrs. M.M. : 50

SECTION-A

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

Q.1 Define universal gas constant.

Q.2 Describe quantity of heat.

Q.3 Write statement of first law of thermodynamics.

Q.4 Define isothermal process

Q.5 write the types of IC engines.

Q.6 Describe chemically correct mixture

Q.7 Write an example of water tube boiler

Q.8 Write the use of steam condensers

Q.9 Describe gas turbine

Q.10 Give two uses of steam

SECTION-B

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

Q.11 Explain open and closed system with neat diagrams.

Q.12 Differentiate between Heat and Temperature

Q.13 Explain first law of thermodynamics. Also sate the limitations of this law

Q.14 Write a short note on expansion and compression of a gas

Q.15 Write a short note on horse power and factor affecting it for an IC engine

Q.16 Explain construction of water tube boiler.

Q.17 Write the classification of steam turbine in detail

Q.18 Explain the various components of a gas turbine and give their working.

SECTION-C

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

Q.19 Explain the construction and working of a diesel engine.

Q.20 Explain the construction and working of Babcock and Wilcox boiler with diagram.