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5th Sem. Branch: Mechanical / Mech (T&D)
Sub : Industrial Engineering

Time : 3 Hrs.

MM : 60

SECTION-A

Note: Multiple choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 Gantt chart is used for
a) Inventory control b) Material handling
c) Production schedule d) Machine repair schedules
- Q.2 Productivity=
a) Input/Output b) Output/Input
c) Output - Input d) Input - Output
- Q.3 In time study, the rating factor is applied to determine
a) Standard time of a job
b) Merit rating of the worker
c) Normal time of a worker
d) Fixation of incentive rate
- Q.4 Which of the following layouts is suited for mass production
a) Process layout b) Product layout
c) Fixed position layout d) Plant layout

- Q.5 In ABC control policy, maximum attention is given to
a) Those items which consume money
b) Those items which are not readily available
c) Those X items which are in more demand
d) Those items which consume more money
- Q.6 In value engineering approach, the value of the product is
a) Inversely proportional to its functions and directly proportional to its cost
b) Directly proportional to its functions and Inversely proportional to its cost
c) Directly proportional to its functions as well as its cost
d) Directly proportional to its functions and independent of its cost

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define production.
- Q.8 Give the name of different types of inventory.
- Q.9 Define work sampling.
- Q.10 Give full form of PPC.

(1)

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(2)

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- Q.11 Define wages.
- Q.12 The difference between actual sales and breakeven point is known as _____.

Section-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)

- Q.13 Classify stainless steel in detail.
- Q.14 Explain electric arc furnace for making of stainless steel.
- Q.15 What is role of alloying elements in ferrite and austenite stabilization?
- Q.16 Name the properties of different grade of stainless steel and explain any one.
- Q.17 What is cold roll forming process? Explain.
- Q.18 What is weld decay? Explain causes and remedies.
- Q.19 Name any five issues face during fabrication of stainless steel?
- Q.20 Explain ultrasonic testing for detecting defects in stainless steel.
- Q.21 What is the role precipitates on corrosion?
- Q.22 Explain shielded metal arc welding with diagram.

Section-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)

- Q.23 Explain Inadequacy Fe-Fe₃C diagram for stainless in detail.
- Q.24 Explain the phase transformation of stainless steel with neat diagram.
- Q.25 Explain in detail stress corrosion cracking and how it can be controlled.