

SECTION-C

No. of Printed Pages : 4

Roll No.

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Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Discuss in detail about pneumatic brake system in vehicles.
- Q.4 Discuss the sketch for constructional details of hydraulic jacks and centrifugal pumps.
- Q.5 What is the concept of automation? Problems with automation & its benefits.
- Q.6 Explain the compressor types and their functioning.
- Q.7 Explain computerized manufacturing process in detail. Write its advantages.

5th Sem. / CAD, CAM, CNC

Subject : Low Cost Automation & Production system

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Define reciprocating pumps.
b) Define machine language.
c) Define mass production.
d) Define routing.
e) Expand AGUS.
f) Type of automation.
g) What is stepper motor?
h) What is manometer?
i) Uses of pressure gauge.

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- j) What is robotics science?
- k) Limitation of sliding friction?
- l) Define pallet trucks.
- m) What is surface grinders?
- n) What are the uses of air filters?
- o) Use of lubricants in vehicles.
- p) Define pressure regulator.
- q) Type of pistons.
- r) Expand ACVC.

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

- Q.2
- i) Write about lean production.
 - ii) Discuss the performance of assembling system.
 - iii) Discuss the characteristics of work stations.

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- iv) What does mean by single acting reciprocating pumps?
- v) Discuss about driver training.
- vi) Discuss about control of production line.
- vii) Write the various functions of LVDT.
- viii) Write about the calibration is important.
- ix) What are the problems of pneumatic system?
- x) Write about automation and mechanization.
- xi) Write the benefits of MRP.
- xii) Introduce lean production.
- xiii) Difference between fully automated and partial automated system.
- xiv) Advantages of automated production line machining.
- xv) Write about migration strategy.

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