

No. of Printed Pages : 4

Roll No.

121753/031753

5th Sem. / Mech./Prod./T&D/CNC/CAD/CAM

Subject : Workshop Technology-III

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1
- a) What is spindle?
 - b) Define up milling.
 - c) What is angle milling cutter?
 - d) Define dividing head.
 - e) Define grade related to grinding wheel.
 - f) Enlist the types of grinding wheel.
 - g) Define snagging
 - h) What is traverse grinding?
 - i) Define circular pitch.
 - j) Define gear shaping.
 - k) What is gear shaving?

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- l) What is the purpose of metal finishing processes?
- m) Define roughness
- n) Write applications of lapping work.
- o) Define dielectric fluid.
- p) What is metal coating?
- q) Write applications of LBM process.
- r) Define super finishing

SECTION-B

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

- Q.2
- i) Explain vertical milling machine.
 - ii) Explain the methods of mounting the cutter on a milling machine.
 - iii) Explain the tool holding devices used in milling machine.
 - iv) Write short note on:
 - a) Angular milling
 - b) Saw milling operations

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- v) Write the advantages of grinding over cutting processes.
- vi) Write short note on dressing of grinding wheel.
- vii) With the help of neat sketch explain rough grinder. <http://www.hsbteonline.com>
- viii) What is gear shaping? Explain any one gear shaping machine.
- ix) Write advantages and disadvantages of hobbing process.
- x) What is metal coating? Explain any one method of metal coating.
- xi) Briefly explain metal spraying process.
- xii) Write short note on honing process.
- xiii) Explain briefly ECM.
- xiv) Write advantages and disadvantages of USM process.
- xv) With the help of neat sketch explain EBM.

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SECTION-C

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

- Q.3 Explain with neat sketch direct indexing and types of indexing head.
- Q.4 Explain tool and cutter grinder in detail.
- Q.5 Explain principle, process, application, advantages and disadvantages of EDM process.
- Q.6 What is lapping? Write its purposes and explain any one lapping machine.
- Q.7 Write short note on :
 - a) Super finishing process
 - b) Gear manufacturing.

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