6641 **BOARD DIPLOMA EXAMINATION JUNE - 2019 DIPLOMA IN MECHANICAL ENGINEERING COMPUTER AIDED MANUFACTURING SYSTEMS** FIFTH SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

Note 1: Answer all questions and each question carries 3 marks

- IDLAVA
- 6. Write the meaning following G codes a) G02 b) G71 c) G94
- 7. State the purpose of post process ng in computer assisted part programming
- 8. State the requirements of material handling system
- 9. List out the components of FMS
- 10. List different modules of CIMS.

$(10m \ x \ 5 = 50m)$ PART - B

Note 1: Answer any five questions and each carries 10 marks

2: The answer should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Explain Group technology and its role in CAD/CAM integration

- 12. Discuss the features of Numerical Control systems in detail
- 13. Describe the features of CNC CMM with a neat sketch
- 14. Explain functioning of recalculating ball screw of CNC with neat sketch and write its advantages
- 15. Explain computer aided part programming
- 16. Explain the basic components of a Robot with a neat sketch.

- 17. Draw the lay out showing various components of FMS and explain the necessity of FMS
- 18. Explain the process of improving productivity in lean manufacturing system A.A.M.M.B.V.V.R.S.R. POLYTEINIC. GUDIAVALLERUKRESHNA.DIST.A.P.

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