DISTAP

Marks: 80

3 X 10 = 30

6245

BOARD DIPLOMA EXAMINATIONS

SEPTEMBER/OCTOBER - 2020

DME – THIRD SEMESTER

PRODUCTION TECHNOLOGY-I

Time: 3 hours

PART – A

Instructions: 1. Answer all questions.

- 2. Each question carries Three Marks
- 3. Answer should be brief and straight to the point and should not exceed Five simple sentences.
- 1. State the working principle of a lathe
- 2. What is Knurling? What is it purpose?
- 3. Write any three differences between Capstan and Turret Lathes.
- 4. How shapers are classified?
- 5. List out the quick return mechanisms used in a planar.
- 6. What is a cutting fluid? State primary function of a cutting fluid?
- 7. State the functions of coated electrodes in arc welding.
- 8 List out different tools and equipment of Arc Welding.
- 9. What is Optical Comparator and State its uses?
- 10. Write any three types of Comparators.

[Cont..,

PART – B

Instructions: 1. Answer any Five questions

- 2. Each question carries **TEN** Marks.
- 3. Answer should be comprehensive and a criterion for valuation is the content but not the length of the answer.
- ISHNA DIST, A.P 11. Explain the Tail Stock Set-over method of taper turning by using a Lathe with a neat sketch.
- 12. Differentiate Automatic and Semi-automatic Lathes.
- 13. Draw the line diagram of double housing planer label its parts and explain construction details of table and bed only.
- 14. Explain the continuous broaching machine with a line diagram.
- Explain different types of Lubricants 15.
- Explain the working principle of FIG welding with a neat sketch. State its 16. advantages and Limitations
- Explain Oxy-Acetylene gas Welding with a neat sketch. State its advantages 17. and disadvanta
- 18. Describe the working principle of optical comparator with a neat sketch. .A.N.M &
