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Register No.:			

April 2019

<u>Time - Three hours</u> (Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.

Answer any FOUR questions from the remaining in each PART – A and PART – B

- (2) Answer division (a) or division (b) of each question in PART C.
- (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C.]

PART - A

- Why plastic is used as pattern material?
- Name any two defects is casting.
- State the expansion of TIG and MIG welding.
- 4. Name the types of gas flame.
- 5. What is lancing?
- 6. Name any two types of chips.
- 7. Mention two merits of optical comparator.
- 8. Differentiate accuracy and precision.

PART - B

- 9. Describe briefly CO₂ process of core making.
- 10. List out the advantages of gas welding.
- 11. Mention any three hot working operations.
- 12. What is electrolytic deposition of metal powder manufacture?
- 13. Mention the uses of combination set.
- 14. Describe about reaming with a neat sketch.
- 15. What are the factors affecting tool life?
- 16. Write a note on Geneva indexing mechanism.

[Turn over....

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PART - C

17. (a) Describe with a neat sketch of a cold chamber process of die casting.

(Or)

- (b) Narrate the working of an electric arc furnace.
- 18. (a) Explain the laser beam welding with a neat sketch.

(Or)

- (b) What is brazing? Describe briefly two methods of brazing.
- 19. (a) List out the various press accessories. Explain any one of them with sketch.

(Or)

- (b) Discuss the applications of powder metallurgy.
- 20. (a) Sketch and explain the back gear mechanism in a lathe.

(Or

- (b) Explain with a neat dia₅ ram of a collapsible tap used in turret lathe.
- 21 (a) Describe with a sketch of a autocollimator.

(Or)

(b) Briefly explain electrical comparator with a sketch.

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