

Sixth Semester B tech Degree Examination

Model Question Paper

Branch: Automobile Engineering

13.606.10 Production process of Automotive Components (U)

Time: 3Hrs

Max Marks: 100

Part A

(Answer all questions, each question carries 2 marks)

1. What are the advantages of oxy-acetylene gas welding in automobile industry?
2. With a neat sketch describe about the manufacturing of transmission shaft?
3. How carburetors are manufactured?
4. Explain about Copy turning process?
5. What is super plastic forming?
6. What is hydro static extrusion?
7. Explain about shot peen hardening of gears?
8. What is Honing of Cylindrical bores?
9. What you mean by powder injection moulding?
10. Explain about super plastic alloys?

(10x2=20)

Part B

(Answer any one full question from each module, Each carries 20 marks.)

Module 1

11. (a) Explain about the manufacturing of brakes and clutch liners ?
(b) Give the different methods for manufacturing of metal powders?

OR

12. (a) With neat sketch explain about pressure die casting?
(b) How Flywheels are manufactured?

Module 2

13. (a) With a neat sketch describe hydro forming . What all the auto motive parts are manufactured by this method?
(b) How poppet valves are manufactured?

OR

14. (a) Explain the manufacturing of Connecting rod in detail with neat sketch ?
(b) Explain about the forming of Air craft wings?

Module 3

15. (a) Write a short note on resistance spot welding?
(b) List the LBW application in auto mobile industry?

OR

16. (a) Give the different gear milling operations?
(b) With sketch explain about Oxy acetylene welding?

Module 4

17. (a) Write short note on plasma spray coating?
(b) Describe about stir casting of AIMMC?

OR

18. (a) How tail lamp housing of automobiles are manufactured?
(b) Describe about the squeeze casting of pistons?

(4x20=80)