## <u>Important questions – WORKSHOP TECHNOILOGY- 3</u>

Q 1	
a.	Define gear.
b.	Define case hardening and flame hardening.
c.	What are modern machining process ?
d.	Different types of gears.
e.	Define addendum and dedendum.
Q 2	What are the different elements of gear terminology?
Q 3	What are the different manufacturing methods for gears?
Q 4	What do you mean by gear hobbing?
Q 5	Explain the principle of ultrasonic machining and advantages , disadvantages, applications with neat and clean diagram.
Q6	Explain the principle of EDM machining and advantages , disadvantages, applications with neat and clean diagram
	Q7. a) Grinding wheel must be balanced for
	Q8. a) Describe the two methods of milling machine. b) Explain various job holding devices used on a milling machine. c) Sketch and briefly describe various dressing and tuning tools. d) What is balancing of grinding wheel and why it is done? e) Write a short note on spark erosion machining. f) What are the principles of working of AJM. g) Sketch and describe a vertical honing machine. h) Describe briefly the process of Buffing, Tumbling and Burnishing?

- Q9. Name the various types of milling machines. Explain and sketch a plain column and knee type milling, machine.
- Q10. Describe with the help of neat sketch the working and construction of cylindrical grinding machine.
- Q11. Explain the process of Electron Beam Machining and also describe its advantages and disadvantages.
- Q12. Describe and sketch the working of a universal Dividing Head.
- Q13. Sketch and explain gear hobbing machine and its principle of working.
- Q14. Define "Grinding Wheel". What do you mean by grain, grade, structure and bend of a grinding wheel.
- Q15.Write short note on:
- 1.EDM
- 2.LBM
- 3.EBM
- 4. Plasma arc machine
- 5. Electro chemical grinding
- Q16.Describe the centreless grinding operation, the machine used, its advantage and limitations.