

B.E DEGREE EXAMINATIONS: MAY/JUNE 2013

Fourth Semester

MECHATRONICS ENGINEERING

MCT104: Manufacturing Technology

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. The metal pattern as compared to wooden pattern require less
 - a) Shrinkage allowance
 - b) Machining allowance
 - c) Draft allowance
 - d) Distortion allowance
2. Which “term” is not associated with casting process?
 - a) Gate
 - b) Runner
 - c) Riser
 - d) Swage
3. The material selected for drawing process is based on
 - a) Ductility
 - b) High tensile strength
 - c) Refractoriness
 - d) Both a& b
4. Hot rolling of mild steel is carried out
 - a) at recrystallisation temperature
 - b) below 1000 c and 1500 c
 - c) above recrystallisation temperature
 - d) below recrystallisation temperature
5. Slow speed of the spindle is necessary in
 - a) Thread cutting
 - b) Turning a hard or tough material
 - c) Turning a work of larger diameter
 - d) Drilling
6. Cutting tools are made of
 - a) Tungsten carbide
 - b) chromium carbide
 - c) nickel nitride
 - d) Aluminium carbide
7. The glazing of the grinding wheel is due to
 - a) Cracks on grinding wheel
 - b) wear of bond
 - c) Wear of abrasive grains
 - d) breaking up of abrasive grains
8. Form turning is otherwise called as
 - a) Grooving
 - b) Slotting
 - c) Drilling
 - d) Grinding
9. The gases used in gas welding process are _____
 - a) Oxygen and hydrogen
 - b) Acetylene and oxygen

25. a) Detail the TIG welding process and give its Merits, De-merits & Applications.

(OR)

b) With the help of a neat sketch explain the resistance spot welding & Ultra-sonic welding
