

Name: \_\_\_\_\_ Hall Ticket No. 

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. The objective of Adaptive control system is [     ]  
(a) High production time (b) High production rate (c) Low removal rate (d) Low productivity
2. Adaptive control is a \_\_\_\_\_ system, in which the operating parameters automatically adapt themselves to the actual condition of the process. [     ]  
(a) Control (b) non serve (c) feedback (d) none
3. Which of the following are related to material handling equipment [     ]  
(a) Industrial trucks (b) automated guided vehicle (c) Conveyors, cranes and hoists (d) All of the above
4. Non-powered conveyors are activated by [     ]  
(a) Human works (b) gravity (c) a and b (d) none
5. Safety device included on vertically all commercial AGV's is on [     ]  
(a) Cotton (b) spanner (c) lifter (d) Emerging bumper
6. Santro is the producer from [     ]  
(a) Japan (b) Germany (c) Korea, Hynduai (d) U.S.A
7. Hoists are used [     ]  
(a) Horizontal movement of materials (b) vertical movement (c) a and b (d) None
8. Cranes are used for [     ]  
(a) Horizontal movement of materials (b) vertical movement (c) a and b (d) None
9. The first automated guide vehicle was developed and used for moving car bodies [     ]  
(a) Volvo (b) Vaughan (c) Toyota (d) Ford
10. Pick the quantity of the material moved is large or high from the following [     ]  
(a) Non powered hand trucks (b) Conveyors (c) Powered hand trucks (d) None

**Cont.....2**

## II Fill in the Blanks:

11. The main idea of an adaptive control systems is the important of the \_\_\_\_\_ by calculation and setting of the optimal operating parameters during the machining itself.
12. Adaptive control systems are based on \_\_\_\_\_ of the operating parameters with reference to measurements of the machining process valuables.
13. The adaptive control is basically a \_\_\_\_\_ in which the operating parameters are automatically adopt themselves to the actual condition of the process.
14. The two important adaptive control systems for machine tools are \_\_\_\_\_
15. In adaptive control with constraints the machining parameters are \_\_\_\_\_ with in a prescribed region bounded by process and system constaints.
16. AS/RS means \_\_\_\_\_
17. The adaptive control is basically a \_\_\_\_\_ system
18. Small tools, stock item, repair parts are generally kept in \_\_\_\_\_ storage equipment
19. A hoist is a mechanical device that can be used to \_\_\_\_\_
20. Design of material handling system depends upon \_\_\_\_\_

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