1.	Which of the following is not a class of policies for resource management?	
	a. Admission Control	
	b. Capacity Allocation	
	c. Bandwidth Management	
	d. Load Balancing	
2.	is referred to a process of distributing the workload evenly among the servers	
	a. Load Balancing	
	b. Capacity Allocation	
	c. Admission Control	
	d. None of above	
3.	policy uses the feedback to guarantee system stability and predict transient	
	behavior	
	a. Control Theory Policy	
	b. Machine Learning Policy	
	c. Utility Based Policy	
	d. Market Oriented/economic mechanisms	
4.	policy is a technique could be applied to coordination of several autonomic	
	system managers.	
	a. Control Theory Policy	
	b. Machine Learning Policy	
	c. Utility Based Policy	
	d. Market Oriented/economic mechanisms	
5.	policy approaches require a performance model and a mechanism to correlate user-level	
	performance with cost	
	a. Control Theory Policy	
	b. Machine Learning Policy	
	c. Utility Based Policy	
_	d. Market Oriented/economic mechanisms	
6.	is a system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture, used to estimate the system component of a two level resource allocation architecture.	ıte
	relevant measures of performance	
	a. Sensors b. Controller	
	b. Controller	
	c. QoS Guarantees	
7.	d. Actuators	
1.	component of a feedback controller is used to carry out the necessary actions	
	a. Sensors	
	b. Moniotrs	
	C. Actuators d. Controller	
8.	d. Controlleris the value of a parameter related to the state of a system that triggers a change in the system	
σ.	behavior.	
	a Sensors	

- b. Monitors
- c. Threshold
- d. Actuators
- threshold could be based on an average of measurements carried out over a time interval.
 - a. Dynamic
 - b. Static
 - c. Proportional
 - d. None of above
- __ control means that very detailed information about the parameters controlling the system state is used
 - a. Coarse
 - b. Fine
 - c. Threshold
 - d. All of above
- 11. Abbreviation of IPMI is.
 - a) Interactive Power Management Interface
 - b) Interactive Platform Management Interface
 - c) Intelligent Performance Management Interface
 - d) Intelligent Platform Management Interface
- 12. In utility function n_c denotes
 - a. Number of clients
 - b. Powercap
 - c. Number of applications
 - d. Response time
- 13. The optimal powercap is defined as p max k
 - a. p^{opt}_k (nc)=arg max $U^*(p_k,n_c)$
 - b. $U(p_k,n_c)=U_{pp}(R(p_k,n_c),P(p_k,n_c))$
 - c. p^{\max}_{k} (nc)=arg max U (p_{k} , n_{c})
 - d. $U(p_k,n_c)=U_{pp}(R(p_k,n_c),P(p_k,n_c))$
- 14. The goal of utility based approach for autonomic management is
 - a. to maximize the total profit computed as the difference between the revenue guaranteed by an SLA and the total cost to provide the services
 - b. to maximize the revenue
 - c. to minimize the cost of services
 - d. to maximize the cost of services
- 15. the slope of the utility function is defined as
 - a. $m_k = -v_k^{max}/r_k^{max}$
 - b. $v_k = v_k^{max} (1 r_k / r_k^{max})$
 - $\begin{array}{ll} c. & U^{\cdot}(p_k,n_c) {=} U_{pp}(R(p_k,n_c),P(p_k,n_c)) \\ d. & U(p_k,n_c) {=} U_{pp}(R(p_k,n_c),P(p_k,n_c)) \end{array}$
- 16. according to the max-min criterion, which of the following conditions must be satisfied by a fair allocation
 - a. The amount received by any user is not larger than the amount requested, B_i b_i .
 - b. If the minimum allocation of any user is B_{min} no allocation satisfying condition C_1 has a higher Bmin than the current allocation.
 - c. When we remove the user receiving theminimum allocation B_{min} and then reduce the total amount of the resource available from B to $(B - B_{min})$, the condition C₂ remains recursively true.
 - d. All of above
- 17. Which of the following algorithms are used for real time applications
 - a. Earliest deadline first
 - b. Round-robin,
 - c. SJF
 - d. Above of the above
- 18. Which of the following scheduling algorithm is used for best effort applications
 - a. Earliest Deadline First
 - b. Rate Monotonic Algorithm

- c. FCFS
- d. Rate based earliest deadline
- 19. Which of the following algorithm works on bit by bit round robin strategy
 - a. Fair queuing
 - b. Start time Fair queuing
 - c. Borrowed virtual time
 - d. All of above
- 20. Which of the following algorithm organizes the consumers of CPU bandwidth in a tree structure
 - a. Fair Queuing
 - b. Start time Fair queuing
 - c. Borrowed virtual time
 - d. All of above
- 21. Which algorithm supports low-latency dispatching of real-time applications
 - a. Fair Queuing
 - b. Start time Fair queuing
 - c. Borrowed virtual time
 - d. All of above
- 22. Expand BVT
 - a. borrowed virtual time
 - b. bit virtual time
 - c. binary virtual time
 - d. bind virtual time
- 23. Expand SVT
 - a. scheduler virtual time
 - b. sliced virtual time
 - c. start virtual timer
 - d. none of above
- 24. Expand RMA
 - a. Rate monotonic algorithms
 - b. random monotonic algorithm
 - c. rate mandatory algorithm
 - d. random memory access
 - e.