Dr.G.R.Damodaran College of Science

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II M Sc(IT) (2016-2018 Batch)
III SEMESTER
ELECTIVE : GRID COMPUTING - 363U3
Multiple Choice Questions.

1. The cluster is usually connected to the outside world through only a _____.
    A. Multimode.
    B. Double node.
    C. Single node.
    D. Triple node.
   ANSWER: C

2. The recent growth of userfriendly file sharing networks such as napster or kazae has now brought as _____ Networks.
    A. Cluster computing.
    B. Internet computing.
    C. Grid computing.
    D. Peer to peer(p2p).
   ANSWER: D

3. LAN transfers were executed mostly via a built in system (or. network software while internet file Exchanges were mostly executed over an _____connection.
    A. Internet relay chat.
    B. File Transfer protocol.
    C. Peer to peer.
    D. Hypertext transfer protocol.
   ANSWER: B

4. In _____, the file sharing is based around the use of a central server system that diverts traffic between Individual registered users.
    A. Internet relay chat.
    B. Peer to peer computing.
    C. Internet computing.
    D. Grid computing.
   ANSWER: B

5. The _____ is also an another resource that is used in the activities of the virtual organizations.
    A. Nodes.
    B. Servers.
    C. Clusters.
    D. Bandwidth.
   ANSWER: B

6. The view of a cluster with a local resource manager is defined by _____.
   A. Cluster hardware.
   B. Grid hardware.
   C. Resource manager.
   D. Local resource manager.
   ANSWER: D

7. The _____ layer defines core protocols required for grid-specific network transactions.
   A. Fabric layer.
   B. Connectivity layer.
   C. The resource layer.
   D. Collective layer.
   ANSWER: B

8. _____ provides uniform authentication, authorization and message protection mechanisms.
   A. Grid security Infrastructure.
   B. Grid resource Allocation management.
   C. Grid FTP.
   D. Grid Resource Information service.
   ANSWER: A

9. The _____ layer defines protocols that provide system oriented capabilities for wide scale deployment.
   A. Resource layer.
   B. Application layer.
   C. Collective layer.
   D. Fabric layer.
   ANSWER: C

10. The _____ defines protocols and services that are targeted toward a specific application (or. a class of applications.
   A. Application layer.
   B. Collective layer.
   C. Fabric layer.
   D. Resource layer.
   ANSWER: A

11. From a developer's standpoint, the grid security protocol should have a robust _____ that allows direct calls to the various security functions.
   A. GSI
   B. grid FTP.
   C. FTP.
   D. API/SDK.
   ANSWER: D

12. The Generic Security Service (GSS. API extensions have been created an are under review at the _____.
   A. Global Grid forum.
   B. Grid security infrastructure.
   C. Internet engineering task force.

D. Generic security service.
ANSWER: A

13. GSS is an _____ standard that provides functions for authentication,delegation,and message protection.
   A. IETF.
   B. GSS.
   C. GSI.
   D. API.
ANSWER: A

14. The Grid resource allocation and management protocol and client API allows programs to be started on _____.
   A. Grid resources.
   B. Computing resources.
   C. Resource specification.
   D. Remote resources.
ANSWER: D

15. The _____ has been developed as a common notation for exchange of information between applications, resource brokers and local resource managers.
   A. GRAM protocol.
   B. Resource specification language.
   C. Remote procedure call.
   D. Grid Information services.
ANSWER: B

16. _____ is a simple, HTTP-based remote procedure call.
   A. GSS.
   B. GRAM protocol.
   C. GSI.
   D. FTP.
ANSWER: B

17. The GRAM-2 protocol will also use web services protocols such as web services definition language and _____.
   A. Grid FTP.
   B. Simple object access protocol.
   C. Global grid forum.
   D. GRIS services.
ANSWER: B

18. _____ supplies information about a specific resource.
   A. Grid resource information service.
   B. Grid index information service.
   C. Grid information service.
   D. Grid FTP.
ANSWER: A

19. _____ is used to query a resource description server for information and also query the aggregate server for information.

A. GRIS sources.
B. Grid Resource Registration Protocol.
C. Grid Resource Inquiry Protocol.
D. Grid Information Service.
ANSWER: C

20. GIIS provides a collection of information that has been gathered from multiple _____.
A. GIS servers.
B. GRIS servers.
C. GRI protocol.
D. FTP protocol.
ANSWER: B

21. OGSA was first presented at the global grid forum IV in Toronto,Canada in _____.
A. Aug 15,2001
B. Jan 11,2002
C. Feb 2002
D. Jul 2005
ANSWER: C

22. The Global grid forum meets _____ times a year.
A. 1
B. 2
C. 3
D. 4
ANSWER: C

23. The _____ Grids consists of one or more systems working together to provide a single point access to users.
A. Infra grids.
B. Cluster grids.
C. Enterprise grids.
D. Intra grids.
ANSWER: B

24. The _____ grids enable multiple projects to share computing resources in a co-operative way.
A. campus grids
B. Intra grids
C. Departmental grids
D. Infra grids
ANSWER: A

25. _____ grid is term used by IBM to define a grid that optimizes resources within an enterprise and does not involve any other internal partner.
A. Campus grids.
B. Extra grids.
C. Enterprise grids.
D. Infra grids.
ANSWER: D

26. Intra grids are located within the _____.

A. campus grids.
B. resource sharing.
C. corporate firewall.
D. service grids.
ANSWER: C

27. ._____ grids consists of resources spread across an enterprise and provide service to all users within that enterprise.
   A. Extraprise grids.
   B. Enterprise grids.
   C. Campus grids.
   D. Extra grids.
ANSWER: B

28. _____ grids are established between companies, their customers.
   A. Intra grids.
   B. Departmental grids.
   C. Extraprise grids.
   D. Extra grids.
ANSWER: C

29. The grid deployments that requires access to and processing of data are called _____.
   A. utility grids.
   B. Data grids.
   C. Global grids.
   D. campus grids.
ANSWER: B

30. _____ are created solely for the purpose of providing access to computational resources.
   A. Inter grids.
   B. Global grids.
   C. Desktop grids.
   D. compute grids.
ANSWER: D

31. _____ grids provides the power of distributed resources to users anywhere in the world for computing and collaboration.
   A. Global grids
   B. Intergrids
   C. Desktop grids
   D. compute grids
ANSWER: A

32. _____ allows a number of distinct systems to appear as one, even though each runs its own instance of the operating system.
   A. symmetric multiprocessor
   B. HPC clusters
   C. Single System Image
   D. Smart System Software
ANSWER: D

33. Individual GNU/Linux Kernel instances abstract process manipulation through the notion of a _____.
   A. global PID
   B. smart system software
   C. HPC
   D. process Identifier
   ANSWER: D

34. Beowulf clusters support distributed memory parallel computing via the _____.
   A. parallel virtual machine
   B. GNU compilers
   C. Global PID
   D. process Identifiers
   ANSWER: A

35. HPC clusters use _____ to virtualize independent operating system instances to provide an HPC service.
   A. Kernal modification
   B. single system image
   C. smart system software
   D. symmetric multiprocessor
   ANSWER: C

36. The high-tech field of _____ offers rich possibilities for illustrating SSE in capacity driven simulation.
   A. Electronic design automation
   B. Single System Image
   C. Register transfer level
   D. HPC
   ANSWER: A

37. Computed assisted engineering continues to play an increasingly significant role in_____.
   A. computational fluid dynamics.
   B. computed-assisted engineering.
   C. Independent software vendor.
   D. HPC cluster.
   ANSWER: B

38. Commercial ISV s have shown a tremendous willingness to deliver solutions based on parallel processing via _____ in industrial manufacturing.
   A. Message passing Interface
   B. HPC clusters
   C. computational fluid dynamics
   D. computed-assisted engineering
   ANSWER: A

39. Platform multi cluster was introduced in 1996 to federate clusters based on platform _____.
   A. LSF
   B. ISF
   C. HPC cluster
   D. EDA
   ANSWER: A

40. _____ clusters use smart-system software to virtualize node-tied application instances to provide a highly not available service.
    A. HPC clusters
    B. HA clusters
    C. Transactional clusters
    D. Active clusters
   ANSWER: B

41. _____ has been developed to support execution of program on different but co-located processors.
    A. clustering algorithm
    B. parellel processing algorithm
    C. key parallel processing algorithm
    D. GHIC algorithm
   ANSWER: C

42. Users who wanted to communicate with new or unknown users could transfer files using_____.
    A. internet relay chat
    B. net security centre
    C. file transfer protocol
    D. hypertext transfer protocol
   ANSWER: A

43. The _____ layer includes the protocols and interface that provides access to the resources that are being shared.
    A. application layer
    B. network layer
    C. collective layer
    D. fabric layer
   ANSWER: D

44. The _____ layer defines protocols required to initiate and control sharing of local resources.
    A. fabric layer
    B. connectivity layer
    C. resource layer
    D. application layer
   ANSWER: C

45. The _____ for grids has been defined by creating extensions to standard and well-known protocols and API's.
    A. grid security infrastructure
    B. generic security service
    C. resource specification language
    D. global grid forum
   ANSWER: A

46. Globus is a united states government funded project that provides software tools That make it easier to build _____.
    A. computer applications
    B. software applications
    C. cluster based applications

D. grid based application
ANSWER: C

47. A set of protocols and API's are defined in the resources layer that provides key information about the _____.
   A. reference implementation
   B. grid resource registration
   C. grid infrastructure
   D. grid FTP
   ANSWER: C

48. The protocol extension to FTP for the grid has been submitted as a draft to the_____ data working group.
   A. generic security service
   B. HR of a company
   C. Global grid forum
   D. Grid resources
   ANSWER: D

49. In_____ grids, the resources are not shared by other groups within the enterprise.
   A. Enterprise grids
   B. Extraprise grids
   C. Cluster grids
   D. Departmental grids
   ANSWER: D

50. _____was introduced in 1996 to federate clusters based on platform LSF.
   A. Platform multicluster
   B. Platform HPC
   C. Platform EDA
   D. Computer-Assisted Engineering
   ANSWER: A

51. OGSA defines a set of _____ that can be used to implement various application patterns evident in distributed computing.
   A. Grid services
   B. Global grid services
   C. data structures
   D. Grid forum
   ANSWER: A

52. _____ the distributed version of COM, is generally equivalent to Common Object Request Broker Architecture.
   A. VCOM
   B. ACOM
   C. CCOM
   D. DCOM
   ANSWER: D

53. The _____ is defined as a flexible, secure, coordinated resource sharing among dynamic collections of individuals, institutions and resources.

A. OGSA standard
B. Grid problem
C. Grid services
D. OLE
ANSWER: B

54. The _____ layer of Grid Computing Architecture model is responsible for "Sharing single resources", negotiating access and the controlling the usage.
   A. Collective Layer
   B. Application Layer
   C. Resource Layer
   D. Fabric Layer
   ANSWER: C

55. _____ were defined to decouple the programming environment from the integration environment.
   A. Web services
   B. Grid services
   C. Computational services
   D. Grid computing
   ANSWER: A

56. The _____ interface deals with the transfer of funds.
   A. accounting interface
   B. billing interface
   C. rating interface
   D. metering interface
   ANSWER: B

57. The OGSA platform is made up of three components such as, the open grid services infrastructure, the OGSA platform interfaces and the _____.
   A. OGSA platform models
   B. OGSA platform services
   C. OGSA integration
   D. OGSA platform resources
   ANSWER: A

58. OGSA defines the underlying mechanisms for managing _____.
   A. Service infrastructure
   B. OGSA interfaces
   C. OGSA models
   D. Grid service instances
   ANSWER: D

59. _____ are the combination of OGSA services and information schemas for representing real entities on the grid.
   A. OGSA infrastructure
   B. OGSA platform models
   C. OGSA platform interfaces
   D. OGSA instances
   ANSWER: B

60. OGSA provides the specifications for how clients deal with _____.
    A. Web services
    B. grid services
    C. grid computing
    D. OGSA services
    ANSWER: B

61. The _____ and client API allows programs to be started on remote resources.
    A. Grid Resource Allocation and Management Protocol
    B. Grid Memory Management protocol
    C. Grid Application Management Protocol
    D. Grid API
    ANSWER: A

62. In order to allow for stateful web services , OGSI defined a mechanism to expose a service instances state data , called _____.
    A. state data
    B. service data
    C. xml elements
    D. web data
    ANSWER: B

63. An important attribute of the service data element is its _____.
    A. scalability
    B. mutability
    C. extensibility
    D. flexibility
    ANSWER: B

64. The _____ is also intended to capture some semantics about the grid services.
    A. service description
    B. service abstraction
    C. service intension
    D. service instance
    ANSWER: A

65. Kerberos services come to mind as a service that requires _____ between client and server.
    A. synchronization
    B. grid synchronization
    C. message synchronization
    D. clock synchronization
    ANSWER: D

66. _____ encapsulates the root behavior of the service model.
    A. service group
    B. service group entry
    C. service group registration
    D. grid service
    ANSWER: D

67. _____ provides a mechanism to aggregate the metered information from lower level resource.
   A. rating interface
   B. accounting interface
   C. billing interface
   D. metering interface
   ANSWER: D

68. On January 12th,2003, at the Globus World conference in san diego, the globus project announced the availability of an alpha version of _____.
   A. Grid FTP
   B. MDS
   C. GRAM
   D. GT3
   ANSWER: D

69. GT3 core focuses on providing support for writing _____ in the java programming language.
   A. Web services
   B. OGSA services
   C. Grid services
   D. System level services
   ANSWER: C

70. The _____ defines the relationship between a grid service and its membership within a service group.
   A. factory
   B. grid services
   C. service group
   D. service group entry
   ANSWER: D

71. The _____ users care about what grid tools and resources are available within the grid infrastructure to guide the software development process.
   A. Grid administrators
   B. Grid application users
   C. Grid developers
   D. Grid services and toolkit developers
   ANSWER: D

72. A service primarily is executed only when a request for the service is received by a _____.
   A. Grid provider
   B. web service provider
   C. service architecture
   D. service provider
   ANSWER: D

73. A _____ has been developed as a common notation for exchange of information between applications, resource brokers and local resource managers.
   A. Resource Management Language (RML)
   B. Resource Specification Language (RSL)
   C. Resource Allocation Language (RAL)
   D. Resource Maintenance Language (RMaL)

ANSWER: B

74. Grid services implemented with OGSA are generally transient and are created by using _____.
    A. Grid service
    B. Web service
    C. Factory service
    D. OGSA service
    ANSWER: B

75. In the web services, the discovery mechanism is generally provided by the _____.
    A. WSDL interface
    B. UDDI registry
    C. LDAP structure
    D. HTTP requests
    ANSWER: B

76. _____ provides a de facto standard toolkit for developing prototype Grid Services applications.
    A. Globus Toolkit
    B. Globus Toolkit 2
    C. Globus Toolkit 3
    D. Globus Toolkit 5
    ANSWER: C

77. The _____ provides an example of the use of services for managing access to computational and data resources.
    A. Computational grid
    B. TeraGrid Project
    C. GigaGrid Project
    D. OGSA Specification
    ANSWER: B

78. Connectivity between the user and a number of organizations is achieved by using _____ messages.
    A. SOAP
    B. OGSA
    C. WSDL
    D. GSH
    ANSWER: A

79. The ability to integrate a number of local grids is a significant advantage of using Web Service technologies to build _____ .
    A. Social Grids
    B. Computational Grids
    C. Web service Grids
    D. Grid Services.
    ANSWER: B

80. When creating a new service, a user application issues a _____ request on a factory interface, leading to the creation of a new instance.
    A. create web service
    B. create grid service

C. create factory interface
D. create local interface.
ANSWER: A

81. A variety of query terms are available as _____ which can be configured to discover a particular property of a resource.
    A. grid search
    B. grid_info search
    C. create grid search
    D. create grid information
ANSWER: B

82. Each organizational domain participating in the grid would need to run a _____ Which is registered with a Grid Index Information Service.
    A. Grid Information Service
    B. Grid Service
    C. Web Information Service
    D. Grid Resource Information Service.
ANSWER: D

83. Which of the following is not a level of security in Grid Environment?
    A. Application Level
    B. Task Level
    C. System Level
    D. Resource Level
ANSWER: D

84. Grid projects that use information services include Condor, Legion, and _____.
    A. Ganglia
    B. NWS
    C. sysinfo
    D. Netsolve
ANSWER: A

85. _____ registers may contain services that are useful only in a local context and that may be hidden behind company firewalls.
    A. WSDL
    B. private
    C. public
    D. local.
ANSWER: B

86. The _____ contain information that describes a web service using different business categories.
    A. White pages
    B. Yellow pages
    C. Green pages
    D. All the above.
ANSWER: B

87. _____is a technology that enables an application to create compound documents that contain information from a number of different sources.

A. Software development kit
B. Object linking and embedding
C. Open grid services architecture
D. Open grid services infrastructure.
ANSWER: B

88. The_____was formed to host a number of working groups focused on defining standards and best practices for distributed computing.
    A. Global grid forum
    B. Grid computing forum
    C. Web services inspection language
    D. Globus toolkit
    ANSWER: A

89. The data access and integration services working group is focused on defining _____that provide consistent access to existing, autonomously managed databases.
    A. Grid data services
    B. Multiple data sources
    C. Grid service management
    D. Integration services
    ANSWER: A

90. Which of the following is not fall in the Application Category?
    A. Data Parallel
    B. Data Serial
    C. Parameter Sweep
    D. Probabilistic
    ANSWER: B

91. UDDI provides a standard method for publishing and discovering informations about_____
    A. Network devices.
    B. Web services.
    C. Grid projects.
    D. Grid services.
    ANSWER: B

92. An ARC task, namely _____may be sent by the ARC system for remote execution.
    A. Inter Process Communication
    B. Remote Procedure Calls
    C. Remote Instruction Block
    D. Collection of process
    ANSWER: C

93. ARC provides a _____architecture.
    A. single-tiered
    B. multi-tiered
    C. two-tiered
    D. three-tiered
    ANSWER: C

94. The _____provides support for migration, fault tolerance, heterogeneity, load adaptability, and

asynchronous intimations for availability.
   A. The ARC model
   B. The ARC kernal
   C. FDDI network
   D. Remote Instruction Blocks
   ANSWER: B

95. Bronto and elasmo are two _____which are situated in a smaller laboratory.
   A. ARC model
   B. Load adaptive
   C. sun sparcs
   D. IBM Rs/6000 workstations
   ANSWER: C

96. A program is said to be_____ if it adapts to the changing load in the system.
   A. individual nodes
   B. remote nodes
   C. load-adaptive
   D. load system
   ANSWER: C

97. _____ can delay the decision of selecting a node for a process until execution time.
   A. parallel virtual machine
   B. Inter process communication
   C. Interconnected workstation
   D. Remote procedure call
   ANSWER: A

98. RPC is more appropriate for providing procedure call_____ rather than for writing parallel programs on workstation clusters.
   A. un-distributed services
   B. Distributed services
   C. Remote calls
   D. RPC systems
   ANSWER: B

99. The main motivation in developing REV is to reduce the _____
   A. client communication
   B. peer-to-peer communication
   C. client-server communication
   D. workstation communication
   ANSWER: C

100. _____are for handling variations in loads and speeds dynamically.
   A. sockets
   B. primitives
   C. nodes
   D. abstrations
   ANSWER: B

101. Mobile computing brings about a new paradigm called _____ in which communication may be

achieved through wireless network
   A. Grid computing
   B. grid services
   C. web technology
   D. distributed computing
   ANSWER: D

102. The _____ is the key measurement to be calculated for determining application suitability.
   A. Compute Intensity
   B. Compute Index
   C. Compute Output
   D. Compute Units
   ANSWER: A

103. The key idea in building the mobile grid is to integrate the computational, data and _____
   A. service grids
   B. data grid
   C. mobile grid
   D. visual data
   ANSWER: A

104. The data may be huge so that it would have to be stored in _____
   A. grid monitoring system
   B. data resources
   C. data repositories
   D. data warehouse
   ANSWER: C

105. The mobile grid monitoring system is used to maintain information about _____
   A. data grids
   B. grid services
   C. service grids
   D. resources
   ANSWER: D

106. Existing grid monitoring systems have difficulty in scaling due to_____
   A. sevice grids
   B. union components
   C. centralized component
   D. cluster grids
   ANSWER: C

107. The placement of replicas that corresponds to file instances in the data grid is also handle by_____
   A. data montioring systems
   B. grid monitoring systems
   C. mobile grid monitoring systems
   D. mobile grid services
   ANSWER: C

108. The proposed model , the notes are encapsulated as objects called_____
   A. distributed object

B. distributed shared object
C. surrogate object
D. cluster head
ANSWER: C

109. The attributes of the SO includes the computing capability of the node the memory capability of the medium and _____
   A. bandwidth of the medium
   B. transformation of the medium
   C. computing capability of the medium
   D. services medium
   ANSWER: A

110. The methods and sub-objects of the SO represents the _____ that are offered by the node.
   A. shared object
   B. grid resources
   C. mobile resources
   D. services
   ANSWER: D

111. The cluster head maintain all the repositories related to trading and naming services of _____ and handles the service discovery.
   A. DOS
   B. DSO
   C. MSS
   D. QOS
   ANSWER: B

112. In order to hava a unified design, static nodes are also represented as objects in _____
   A. DOS
   B. DSO
   C. MSS
   D. QOS
   ANSWER: B

113. A _____ is a logical arrangement of independent entities that collectively provide a service.
   A. Grid
   B. Group
   C. Cluster
   D. Network
   ANSWER: C

114. The _____ incorporates a kernel modification to provide a distributed process space (BPROC).
   A. Beowulf SSS
   B. Beowulf SSE
   C. Beowulf SSI
   D. Beowulf SSA
   ANSWER: C

115. The _____ contain information about file instances , the content of the file instances and the various storage system contained in the data grid.
   A. mobile host
   B. static node
   C. surrogate object
   D. meta data
   ANSWER: D

116. The _____ is focused more on the resources required to address challenging problem than on throughput requirements.
   A. Capacity HPC
   B. Capability HPC
   C. Hybrid HPC
   D. Standalone HPC
   ANSWER: B

117. The _____ is one of the industry leading EDA tool vendors, proposed a new paradigm to address the ever-increasing verification resource bottleneck.
   A. Synopsys
   B. Ventura
   C. VCS
   D. HP
   ANSWER: A

118. Middleware services such as naming and trading in the grid are handled through a wide area shared object space that we have built named as _____
   A. quality of service
   B. service level agreement
   C. virat
   D. surrogate object
   ANSWER: C

119. Which of the following is not true according to Ian Foster?
   A. A grid is a system that coordinates resources that are not subject to centralized control
   B. A grid is a system that uses standard, open, general purpose protocols and interfaces
   C. A grid is a system that deliver nontrivial qualities of service.
   D. A grid is a system that manages only the local resources.
   ANSWER: D

120. The _____ are responsible for the cluster level management of replicas.
   A. service repositories
   B. communication repositories
   C. addressing repositories
   D. object repositories
   ANSWER: D

121. Communication between the object repositotres themselves is through a _____ protocol.
   A. communication protocol
   B. grid protocol
   C. application protocol
   D. peer to peer protocol

ANSWER: D

122. Virat uses _____ mechanisms to realize various consistency schemes such as serializability and casual consistency.
  A. scalability mechanism
  B. data concurrency mechanism
  C. data consistency mechanism
  D. data-centric concurrency control mechanism
  ANSWER: D

123. The _____ is a key issue in distributed systems, especially in mobile grids as the number of devices can be quite high.
  A. scalability
  B. consistency
  C. traceability
  D. serializability
  ANSWER: A

124. The _____ is the act of collecting information concerning characteristics and status of resources of interest.
  A. communicating
  B. monitoring
  C. hosting
  D. data constructing
  ANSWER: B

125. The monitoring system resides over the shared space in the _____ layer.
  A. physical layer
  B. datalink layer
  C. network layer
  D. peer to peer layer
  ANSWER: D

126. Which is not a step of the Five Steps to Scientific insight?
  A. Determine relevant Physics/chemistry etc.
  B. Represent the science mathematically
  C. Represent the mathematics numerically
  D. Write the program
  ANSWER: D

127. Different kinds of data are collected from the different components that make up the _____
  A. grid services
  B. grid architecture
  C. mobile grid
  D. data grid.
  ANSWER: C

128. The monitoring information traffic can be huge having _____ monitoring manager.
  A. 1
  B. 62
  C. 23

D. 5
ANSWER: A

129. The _____ component of MPI application development environment allows a heterogeneous collection of compute servers, each running their own instance of an operating system, to be virtualized into a compute cluster.
    A. Parallel application management
    B. Core Workload Management
    C. Parallel scheduling services
    D. Job scheduling service
    ANSWER: B

130. A _____ provides a standards-based mechanism to access a data grid and responds to NFS 2.0/3.0 protocols and interacts with other data grid components.
    A. Data Grid Access Servers (DGAS)
    B. Grid Access Servers (GAS)
    C. Data Access Servers (DAS)
    D. Data Grid Servers (DGS)
    ANSWER: A

131. The met-data could also contain information about the locks on the_____
    A. data objects
    B. data grids
    C. data elements
    D. mobile nodes
    ANSWER: C

132. Which of the following is not an alternative to Data Grids?
    A. Network File System (NFS)
    B. File Transfer Protocol (FTP)
    C. NFS over IPSec
    D. NTFS
    ANSWER: D

133. A _____ is the primary component of a data grid and performs grid-related tasks such as domain creation, authentication, access control, meta-data management, monitoring, searching etc.
    A. Grid Server
    B. Grid Client
    C. Grid Client Executive
    D. Grid System Software
    ANSWER: A

134. In _____ monitoring the check points can be inserted into the application to capture the intermediate sate of application and the data required for performance analysis.
    A. application
    B. process
    C. static host
    D. data store
    ANSWER: A

135. With _____, , companies have a better way to give all developers and users access to data

they need for applications and analysis—wherever data is located.
    A. Avaki Data Grid
    B. Shared Data Grid
    C. MS Data Grid
    D. Cloud Grid
    ANSWER: A

136. A _____ is an Avaki Data Grid component that is responsible for bulk data transfer to and from a local disk on a machine.
    A. Share Client
    B. Share Server
    C. Share Grid
    D. Share Cloud
    ANSWER: B

137. A _____ enables accesses across a firewall and requires a single portion in the firewall to be opened for TCP - specifically HTTP/HTTSs - traffic.
    A. Proxy Server
    B. Proxy Client
    C. Grid Server
    D. Grid Client
    ANSWER: A

138. The _____ is a distributed network file system that enables access to files and directories distributed across multiple sites.
    A. NFS
    B. Andrew File System (AFS)
    C. NTFS
    D. FAT 32
    ANSWER: B

139. The mobile nodes run on the exporter daemon, which exports the monitoring data of the mobile nodes to the _____ station.
    A. data grid station
    B. mobile communication station
    C. mobile support station
    D. telecommunication station
    ANSWER: C

140. Mobile grid monitoring system helps in scheduling and task allocation for_____
    A. distributed computing
    B. parallel computing
    C. mobile computing
    D. grid computing
    ANSWER: B

141. The advancement in technology has enable mobile devices to become information and service provider by complementing or replacing _____
    A. service grids
    B. data grid
    C. mobile grid

D. static hosts
ANSWER: D

142. Some of the major projects involved in the integration of computational and data grids world wide are_____.
   A. NASA information power grid ,European union's data grid
   B. SERN data grid, ipg resource grid
   C. Data centric grid
   D. static host monitoring grid
   ANSWER: A

143. Detectors placed around 27 km LHC tunnel will produce about _____ of data per year.
   A. 5 gigabyte
   B. 24 peta bytes
   C. 10 peta bytes
   D. 15 peta bytes
   ANSWER: D

144. Data grid, a project funded by _____, is working towards building the next generation computing infrastructure providing intensive computation.
   A. NASA information power grid
   B. European union
   C. particle physics data grid
   D. collaboratory pilot
   ANSWER: B

145. The grid middleware provided by the _____ is enhanced to work better with large data sets, many files and many users distributed over several organizations.
   A. middleware toolkit
   B. java cog tool kit
   C. globus tool kit
   D. cop tool kit
   ANSWER: C

146. The _____ is a high performance computation and data grid that intergrates geographically distributed computers databases and instruments.
   A. European union data grid
   B. Particle physics data grid
   C. NASA information power grid
   D. CERN open lab
   ANSWER: C

147. The data centric grid project aims to design and implement grids for _____ operation in which data is moved as little as possible.
   A. data collaboration operation
   B. data collective operation
   C. data intensive operation
   D. data separating operation
   ANSWER: C

148. Globus Toolkit is a _____.

A. Open Source Grid Toolkit.
B. Proprietary Standard.
C. Common Standard.
D. Service Oriented Architecture.
ANSWER: A

149. I-Pictures, P-Pictures and B-pictures are pictures that typically occur in a repeating sequence of a
_____.
A. Picture Collection
B. Picture Group
C. Group of Pictures (GOP)
D. Picture Gallery
ANSWER: C

150. The _____ report contains # of requests submitted, # of requests succeeded, # of requests failed, # of requests cancelled, total CPU time used, total wall clock time used and total bytes transferred for each grid user.
A. Status Report
B. User Report
C. Resource usage report
D. Utilization Report
ANSWER: B

Staff Name
Umamaheswari S .