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Question 1: **Correct**

**By default when a node first runs Puppet agent and communicates with the puppet master, a ssl certificate is created for signing. When the ssl certificate is signed what is the name of the certificate on the Puppet master consist of?**

* A. Ipaddress
* B. Fully qualified domain name

**(Correct)**

* C. Server Hostname
* D. Mac address

**Explanation**

Option B is correct : The fully qualified domain name of the server is matched and registered as the agent name and certificate nameOption A, C and D are incorrect : Ipadress and mac address are never store, its the fqdn alwaysFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/man/cert.htmlThe correct answer is: Fully qualified domain name

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Question 2: Skipped

**Given the following Puppet code, what should be the output?**

**exec { "echo tests >> /tmp/test.txt":**

**path => "/bin:/usr/bin",**

**creates => "/tmp/test.txt",**

**}**

* A. The file /tmp/test.txt  is created if the file does not exist and then 'tests' written to the file

**(Correct)**

* B. Writes 'tests' to the /tmp/test.txt file if the /tmp/test.txt file already exists
* C. Syntax Errors
* D. Does nothing

**Explanation**

Option A is correct: The exec has an only if, unless, or creates an attribute, which prevents Puppet from running the command unless some condition is met.Option B is incorrect: It will create the file if it does not existOption C is incorrect: The syntax is correctOption D is incorrect: It will create the file if it does not exist and writes ‘tests’ to itFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types\_strings/exec.htmlThe correct answer is: The file /tmp/test.txt  is created if the file does not exist and then 'tests' written to the file

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Question 3: **Correct**

**You have created a module and want to release it on the Puppet Forge. Which puppet module command will prepare your module for release on the Puppet Forge by building an archive file which would be ready to upload? Choose the correct answer:**

* A. puppet module create
* B. puppet module build

**(Correct)**

* C. puppet module compile
* D. puppet module generate

**Explanation**

Option B is correct : To upload your module to the Forge, you first must build the module package. From the command line, run puppet module build <MODULE DIRECTORY>. This command generates a .tar.gz package and saves it in the module’s pkg/ subdirectory.Option A is incorrect : create is an invalid subcommandOption C is incorrect : compile is an invalid subcommandOption D is incorrect : puppet module generate would generate a boilerplate for a new moduleFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_publishing.html#build-your-moduleThe correct answer is: puppet module build

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Question 4: **Correct**

**Given the following exhibit code, what key should be added to the YAML data source in order for automatic parameter lookup to apply to this class?**

**:class ntp ($ntp = "default") {}**

**Choose the correct answer:**

* A. ::ntp: web.server.com
* B. ntp::ntp: web.server.com

**(Correct)**

* C. ::ntp:ntp: web.server.com
* D. ntp: web.server.com

**Explanation**

Option B is correct : When values for class parameters aren’t explicitly provided, Puppet automatically looks them up in Hiera, using the fully-qualified name of the parameter (like myclass::parameter\_one) as a lookup keyOption A, C and D is incorrect : There are three ways to set values for class parameters, and Puppet tries each of them in order when the class is declared or assigned by an ENC:?     If it was a resource-like declaration/assignment, Puppet uses any parameters that were explicitly set. These always win if they exist.?     Puppet automatically looks up the remaining parameters with Hiera, using <CLASS NAME>::<PARAMETER NAME> as the lookup key (for example, ntp::servers for the ntp class’s $servers parameter).?     For any parameters that still have no value, Puppet uses the default value from the class’s definition.?     If any parameters have no value AND no default, Puppet fails compilation with an error.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.2/hiera\_automatic.html#how-class-parameters-workThe correct answer is: ntp::ntp: web.server.com

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Question 5: **Incorrect**

**In a given puppet code, where are functions executed?**

* A. On the Puppet master

**(Correct)**

* B. On the manifest
* C. On the node

**(Incorrect)**

* D. On the node object

**Explanation**

Option A is correct : The functions are executed when the catalog is compiled, and it is done on the masterOption B, C and D are incorrect :  When configuring a node, Puppet agent uses a document called a catalog, which it downloads from a Puppet master server. This catalog contains the functions and code which states the desired state of a nodeFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/subsystem\_catalog\_compilation.htmlThe correct answer is: On the Puppet master

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Question 6: **Correct**

**Examine the below exhibit. What is the expected result of this code?**

**package { 'httpd':**

**ensure => 'present',**

**}**

**service { 'httpd':**

**ensure => running,**

**enable => true,**

**require => package['httpd'],**

**}**

**Choose the correct answer.**

* A. Error because the require metaparameter relationship has incorrect resource
* B. Service https will be installed if absent and service will be started
* C. Error because there is a syntax error in require metaparameter

**(Correct)**

* D. Service httpd will be started if the package httpd has been installed

**Explanation**

Option C is correct : The ‘p’ in package should be uppercaseOption A, B and D are incorrect : The require metaparameter has correct resource relationshipFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_relationships.htmlThe correct answer is: Error because there is a syntax error in require metaparameter

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Question 7: **Correct**

**node "server.example.com" {**

**$domain = "192.168.2.1"class { 'apache' :**

**}}**

**class apache (**

**$domain = "localhost") {notice("The value of the domain variable is ${domain}"**

**)}**

**Choose the correct answer:**

* A. 192.168.2.1
* B. localhost

**(Correct)**

* C. undef
* D. Error

**Explanation**

Option B is correct : The value localhost exists at local scope and it overrides the value which exists as node scope Option A, C and D are incorrect : The value 192.168.2.1 exists at node scope, local scope takes preference over it. For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_scope.html#overriding-received-valuesThe correct answer is: localhost

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Question 8: **Correct**

**You have an apache module written for your webserver. You want to trigger the restart of an apache web service after a configuration file httpd.conf is changed during a Puppet agent run. Which resource metaparameter will you use to trigger the restart?**

* A. audit
* B. notify

**(Correct)**

* C. require
* D. before

**Explanation**

Option B is correct : If Puppet makes changes to this resource, it will cause all of the notified resources to refresh. Option A is incorrect : Marks a subset of this resource’s unmanaged attributes for auditing Option C is incorrect : The pointed resources will be applied before the current resource Option D is incorrect : The referenced resource will be applied before the dependent resource. For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/metaparameter.html#notifyThe correct answer is: notify

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Question 9: **Correct**

**You have 50 servers all containing different operating systems. You are writing a puppet module to manage the antivirus software installation and management depending upon the operating system they have. Which three Puppet conditional statements would you use to manage the servers?[Choose three]**

* A. selector statement

**(Correct)**

* B. if statement

**(Correct)**

* C. case statement

**(Correct)**

* D. switch statement

**Explanation**

Option A, B and C  are correct : Puppet supports selector, if, case and unless conditional statementsOption D is incorrect : There is not switch statment in Puppet DSLFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_conditional.htmlThe correct answers are: selector statement, if statement, case statement

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Question 10: **Incorrect**

**You downloaded and installed a module from Puppet Forge. You want to check the difference and updates in the modules since it was installed from command line. Which is the command to check the updates in the Puppet forge module?**

* A. puppet module updates
* B. puppet module changes

**(Correct)**

* C. puppet module diff
* D. puppet module show-changes

**(Incorrect)**

**Explanation**

Option B is correct : Puppet module changes command shows modified files of an installed module Option A, C and D are incorrect : These are invalid commands options. For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/man/module.htmlThe correct answer is: puppet module changes

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Question 11: **Correct**

**You are installing puppet enterprise on your system. The installation errored out due to a configuration error. How will you recover the installation?**

* A. Delete all the puppet related files manually and reinstall
* B. Re-Run the ./puppet-enterprise-installer
* C. Fix the configuration issue and run ./puppet-enterprise-uninstaller
* D. Fix the configuration issue and re-run the installer again

**(Correct)**

**Explanation**

Option D is correct: Once the configuration is fixed, we can re-run the installer to recover the installation.Option A is incorrect: Manually deleting files would cause inconsistencyOption B is incorrect: Re-running the installer file would make no difference and it will error out againOption D is incorrect: To recover the installation, you need to re-run the installation processFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/installing/installing\_pe.html#install-using-text-mode-mono-configurationThe correct answer is: Fix the configuration issue and re-run the installer again

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Question 12: **Incorrect**

**How would you retrieve a node using the puppet master's configured ENC?**

* A. puppet node find node.example.com --terminus exec --run\_mode master --render-as yaml

**(Correct)**

* B. puppet node search node.example.com --terminus rest --render-as yaml

**(Incorrect)**

* C. puppet node find node.example.com --terminus plain --render-as yaml
* D. puppet node search node.example.com --terminus plain --render-as yaml

**Explanation**

Option A is correct : ‘--terminus exec --run\_mode master ‘ would retrieve a node using the puppet master's configured ENC:Option B and D are incorrect : puppet node search is an invalid subcommandOption C is incorrect : This command retrieves an "empty" (no classes, no ENC-imposed parameters, and an environment of "production") nodeFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/man/node.html#EXAMPLESThe correct answer is: puppet node find node.example.com --terminus exec --run\_mode master --render-as yaml

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Question 13: **Incorrect**

**You are installing a module software on your puppet server. Which of the following are parameters that can be passed to the puppet module install command?[Choose 3]**

* A. --environment

**(Correct)**

* B. --noop

**(Incorrect)**

* C.  --debug

**(Correct)**

* D.  --force

**(Correct)**

**Explanation**

Option A is correct : Installs the module into the specified environmentOption C is correct : Displays additional information about what the puppet module command is doingOption D is correct : Forcibly installs a module or re-install an existing module. Does not install dependencies.Option B is incorrect : --noop is used  during an agent runFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_installing.html#reference-puppet-module-actionsThe correct answers are: --environment,  --debug,  --force

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Question 14: **Incorrect**

**You have a node where you want to enable reporting to the master. What configuration should you add in the agent.conf file of the node?**

* A. submit\_reports = 1
* B. $report = true

**(Incorrect)**

* C. report = true

**(Correct)**

* D. reports = https

**Explanation**

Option C is correct : The report=true should be set in the agent’s section for enabling report of the nodeOption A, B and D are incorrect : These are invalid optionsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_set.html#exampleThe correct answer is: report = true

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Question 15: **Correct**

**You have added a new node to the Puppet master server. What will it send to the Puppet master when it checks in?**

* A. facts

**(Correct)**

* B. manifests
* C. variables
* D. classes

**Explanation**

Option A is correct : Each Puppet agent sends facts to the Puppet master, and requests a catalogOption B, C and D are incorrect : manifests, vairables and classes are part of the catalog which is generated by the Puppet masterFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/architecture.html#the-agentmaster-architectureThe correct answer is: facts

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Question 16: **Incorrect**

**Which variables are recommended to be interpolated in the puppet.conf file?[Choose 3]**

* A. $codedir

**(Correct)**

* B. $confdir

**(Correct)**

* C. $moduledir
* D. $vardir

**(Correct)**

**Explanation**

Option A, B and D are correct : The values of settings are available as variables within puppet.conf, and you can insert them into the values of other settings. To reference a setting as a variable, prefix its name with a dollar sign ($)Puppet recommends that you use only the following variables:$codedir$confdir$vardirOption C is incorrect : Invalid directoryFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_file\_main.html#interpolating-variables-in-settingsThe correct answers are: $codedir, $confdir, $vardir

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Question 17: **Incorrect**

**You are using Mcollective deployment architechture for the softwares used in your servers. You want to filter requests when retrieving the facts of each server. Where is the config file located where the cache of the facts are located?**

* A. /etc/puppetlabs/code/facter/facts.yaml
* B. /etc/puppetlabs/code/mcollective/facts.yaml
* C. /etc/puppetlabs/mcollective/facts.yaml

**(Correct)**

* D. /etc/puppetlabs/facter/mcollective/facts.yaml

**(Incorrect)**

**Explanation**

Option C is correct : Every MCollective server will need to populate the /etc/puppetlabs/mcollective/facts.yaml file with a cache of its facts. (You can get by without this file, but doing so will limit your ability to filter requests.)Option A, B and D are incorrect : These directory structures are incorrect.For additional information on this subject, please refer the below URL:https://puppet.com/docs/mcollective/current/deploy/standard.html#populate-the-fact-fileThe correct answer is: /etc/puppetlabs/mcollective/facts.yaml

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Question 18: **Incorrect**

**What are the three parameters that are required to be enabled for installing Code manager?[Choose 3]**

* A. r10k\_remote

**(Correct)**

* B. r10k\_private\_key

**(Correct)**

* C. r10k\_enable

**(Incorrect)**

* D. code\_manager\_auto\_configure

**(Correct)**

**Explanation**

Option A is correct : This setting specifies the location of the control repository. It accepts a string that is a valid URL for your Git control repository.Option B is correct : This setting specifies the path to the file that contains the SSH private key used to access your Git repositories. The pe-puppet user must be able to access this locationOption D is correct : This setting configures Code Manager, the Git control repository to use for storing code, and the private key for accessing your Git repos. Acceptable values are true and falseOption C is incorrect : This is an invalid parameterFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/code\_mgr\_config.html#enable-code-manager-during-installationThe correct answers are: r10k\_remote, r10k\_private\_key, code\_manager\_auto\_configure

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Question 19: **Incorrect**

**You have a Puppet node with the node name of "server.example.com". This node has been removed from the Puppet server and then rebuilt. Puppet agent has been run again after the rebuild. The following error is prompted during the first puppet agent run. "Error: Could not request certificate: The certificate retrieved from the master does not match the agent's private key." How would you solve it?**

* A. Run puppet cert revoke-clean server.example.com and then run puppet agent again
* B. Run puppet cert revoke server.example.com and then run puppet agent again

**(Incorrect)**

* C. Run puppet cert clean server.example.com and then run puppet agent again

**(Correct)**

* D. Run puppet cert sign server.example.com and then run puppet agent again

**Explanation**

Option C is correct : puppet cert clean would clean the existing certificates if any and would do a fresh checkin into the serverOption A is incorrect : revoke-clean is not a valid actionOption B is incorrect : puppet cert revoke can be performed on master server to remove it from the Certificate AuthorityOption D is incorrect : puppet cert sign is run on master server when a certificate is requested from a new node which is waiting to be signed.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/ssl\_and\_certificates/regenerating\_certificates\_monolithic\_installs.html#regenerating\_certificates\_monolithic\_installsThe correct answer is: Run puppet cert clean server.example.com and then run puppet agent again

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Question 20: **Incorrect**

**Which are two protocols of which the functionality of the Puppet Orchestrator is derived?**

* A. PXP

**(Correct)**

* B. PCP

**(Correct)**

* C. PZP
* D. PMP

**Explanation**

Option A is correct : Puppet Execution Protocol (PXP) is a message format used to request that a task be executed on a remote host and receive responses on the status of that task. This is used by the pe-orchestration services to run Puppet on agents.Option B is correct : Puppet Communications Protocol (PCP) is The underlying communication protocol that describes how PXP messages get routed to an agent and back to the orchestratorOption C and D are incorrect : PZP and PMP are invalid protocolsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/orchestrator/running\_jobs\_with\_puppet\_orchestrator\_overview.html#enforcing\_change\_with\_puppet\_orchestrator\_overviewThe correct answers are: PXP, PCP

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Question 21: **Correct**

**What command you would use to list all of the tasks and its documentation that you have installed ?**

* A. puppet task display
* B. puppet show task
* C. puppet task show

**(Correct)**

* D. puppet list task

**Explanation**

Option C is correct : The puppet task show command shows you tasks that you have installed, and documentation for those tasks.Option A, B and D are incorrect : These are invalid commandsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/orchestrator/running\_tasks\_from\_the\_command\_line.html#inspect-tasksThe correct answer is: puppet task show

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Question 22: **Incorrect**

**A priority lookup in Hiera gets a value from which matching level of the hierarchy?**

* A. Least specific
* B. Most specific

**(Correct)**

* C. Top-most
* D. In any order - random

**(Incorrect)**

**Explanation**

Option B is correct: A priority lookup gets a value from the most specific matching level of the hierarchy. Only one hierarchy level — the first one to match — is consulted.Options A, C, and D are incorrect: Priority lookups can retrieve values of any data type (strings, arrays, hashes), but the entire value will come from only one hierarchy level. This is Hiera’s default lookup method.For additional information on this subject, please refer the below URL:https://puppet.com/docs/hiera/3.3/lookup\_types.html#priority-defaultThe correct answer is: Most specific

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Question 23: **Incorrect**

**What are some of the ways that Puppet manifests can be applied to nodes? [Choose 3]**

* A. Hiera

**(Correct)**

* B. fileserver.conf
* C. Puppet Enterprise Console

**(Correct)**

* D. Include in manifests/site.pp

**(Correct)**

* E. Pe.conf

**Explanation**

Option A is correct: Hiera is the best and preferred way for node classifier and data sourceOption C is correct: Puppet Enterprise console provides an easy GUI for assigning classes to nodesOption D is correct: manifests/site.pp can also be used to specify the configuration parameters to be used.Option B is incorrect: fileserver.conf specifies the configuration for additional fileserver mount points for puppet masterOption E is incorrect: pe.conf is used to specify installation configuration parameters. For additional information on this subject, please refer the below URL:https://docs.puppet.com/puppet/5.3/nodes\_external.htmlThe correct answers are: Hiera, Puppet Enterprise Console, Include in manifests/site.pp

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Question 24: **Incorrect**

**Which 3 of these operators can be used in resource collectors to create complex expressions? [Choose 3]**

* A. ||
* B. eq

**(Incorrect)**

* C. and

**(Correct)**

* D. or

**(Correct)**

* E. !=

**(Correct)**

**Explanation**

Option C is correct : Both operands must be valid search expressions. For a given resource, this operator will match if both of the operands would match for that resource.This operator has higher priority than orOption D is correct : Both operands must be valid search expressions. For a given resource, this operator will match if either of the operands would match for that resource.This operator has lower priority than and.Option E is correct: This operator is non-symmetric:?     The left operand (attribute) must be the name of a resource attribute or the word title (which searches on the resource’s title).?     The right operand (search key) must be a string, boolean, number, resource reference, or undef. The behavior of arrays and hashes in the right operand is undefined in this version of Puppet.For a given resource, this operator will match if the value of the attribute is not identical to the search key.Option A is incorrect: ‘||’ is not a resource collector operator.Option B is incorrect: ‘==’ is the correct operator.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_collectors.html#search-expressionsThe correct answers are: and, or, !=

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Question 25: **Incorrect**

**Puppet creates a report about its actions and the infrastructure each time it applies a catalog during a Puppet run. Below are the data which puppet report processors handle.Which statements are incorrect out of the below ?**

* A. Metadata about the node, its environment and Puppet version, and the catalog used in the run.

**(Incorrect)**

* B. The status of every resource.
* C. Actions that Puppet took during the run, also called events.
* D. Log messages are not reported

**(Correct)**

* E. Metrics about the run, such as its duration and how many resources were in a given state.

**Explanation**

Option D is correct : Log messages that were generated during the run.Options A, B, C and E are incorrect : All these data are collected and reported.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/reporting\_about.html#what-data-is-in-a-reportThe correct answer is: Log messages are not reported

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Question 26: **Correct**

**Mount resources can respond to refresh events by using the below resource parameters?[Choose 3]**

* A. notify

**(Correct)**

* B. require
* C. subscribe

**(Correct)**

* D. arrow (~>)

**(Correct)**

* E. before

**Explanation**

Option A, C and D are correct : Refresh: mount resources can respond to refresh events (via notify, subscribe, or the ~> arrow). If a mount receives an event from another resource and its ensure attribute is set to mounted, Puppet will try to unmount then remount that filesystem.Option B is incorrect : If Puppet is managing any parents of a mount resource — that is, other mount points higher up in the filesystem — the child mount will autorequire them.Option E is incorrect : If Puppet is managing any child file paths of a mount point, the mount resource will autobefore them.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types/mount.html#mount-descriptionThe correct answers are: notify, subscribe, arrow (~>)

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Question 27: **Incorrect**

**Which of the below are the characteristics of a dynamic scope?**

* A. A scope’s parent cannot be identified by looking at the definition of a class — you must examine every place where the class or resource might have been declared.

**(Correct)**

* B. In some cases, you can only determine a scope’s contents by executing the code.

**(Correct)**

* C. Scope contents are predictable and do not depend on evaluation order.
* D. Scope contents can be determined simply by looking at the relevant class definition(s); the place where a class or defined type is declared has no effect. (The only exception is node definitions — if a class is declared outside a node, it does not receive the contents of node scope.)

**(Correct)**

* E. Since classes can be declared multiple times with the include function, the contents of a given scope are evaluation-order dependent.

**(Incorrect)**

**Explanation**

Option A, B and D are correct : In dynamic scope, parent scopes are assigned by both inheritance and declaration, with preference being given to inheritance. The full list of rules is:?     Each scope has only one parent, but can have an unlimited chain of grandparents, and receives the merged contents of all of them (with nearer ancestors overriding more distant ones).?     The parent of a derived class is its base class.?     The parent of any other class or defined resource is the first scope in which it was declared.?     When you declare a derived class whose base class hasn’t already been declared, the base class is immediately declared in the current scope, and its parent assigned accordingly. This effectively “inserts” the base class between the derived class and the current scope. (If the base class has already been declared elsewhere, its existing parent scope is not changed.)Option C and E are incorrect : These are characteristics of static scopeFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_scope.html#dynamic-scopeThe correct answers are: A scope’s parent cannot be identified by looking at the definition of a class — you must examine every place where the class or resource might have been declared., In some cases, you can only determine a scope’s contents by executing the code., Scope contents can be determined simply by looking at the relevant class definition(s); the place where a class or defined type is declared has no effect. (The only exception is node definitions — if a class is declared outside a node, it does not receive the contents of node scope.)

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Question 28: **Incorrect**

**Which of the below variables are available in $facts hash?**

* A. $servername
* B. $environment

**(Incorrect)**

* C. $clientversion

**(Correct)**

* D. $settings
* E. $serverversion

**Explanation**

Option C is correct : This variable has the value of the current version of Puppet agent and are available as either top-scope variables or elements in the $facts hash.Option A is incorrect : The Puppet master’s fully-qualified domain name. (Note that this information is gathered from the Puppet master by Facter, rather than read from the config files; even if the master’s certname is set to something other than its fully-qualified domain name, this variable will still contain the server’s fqdn.)Option B is incorrect : The agent node’s environment. Note that nodes can accidentally or purposefully override this with a custom fact; the $server\_facts['environment'] variable always contains the correct environment, and can’t be overridden.Option D is incorrect :  The value of any of the master’s settings. This is implemented as a special namespace and these variables must be referred to by their qualified names. Note that, other than $environment and $clientnoop, the agent node’s settings are not available in manifests. If you wish to expose them to the master in this version of Puppet, you will have to create a custom fact.Option E is incorrect : The current version of Puppet on the Puppet master.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_facts\_and\_builtin\_vars.html#puppet-master-variablesThe correct answer is: $clientversion

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Question 29: **Incorrect**

**Which of the below statuses are not valid in Puppet reporting in the Puppet::Transaction::Event?**

* A. success
* B. failure
* C. noop

**(Incorrect)**

* D. ready

**(Correct)**

* E. audit

**Explanation**

Option D is correct : ‘ready’ is not a valid statusOption A is incorrect : ‘success’ states that property was out of sync, and was successfully changed to be in sync.Option B is incorrect : ‘failure’ states that property was out of sync, and couldn’t be changed to be in sync due to an error.Option C is incorrect : ‘noop’ states that property was out of sync, and wasn’t changed due to noop mode.Option E is incorrect : ‘audit’ states that property was in sync, and was being auditedFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/format\_report.html#puppettransactioneventThe correct answer is: ready

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Question 30: **Correct**

**Which of the below abstract data types does not match Undef?**

* A. Data
* B. Any
* C. Scalar

**(Correct)**

* D. Variant
* E. Optional

**Explanation**

Option C is correct : The Scalar data type  doesn’t match undef, default, resource references, arrays, or hashes.Option A is incorrect : The Data type matches undef in addition to several other data types.Option B is incorrect : The Any type matches any value, including undef.Option D is incorrect : The Variant type can accept the Undef type as a parameter, which will make the resulting data type match undef.Option E is incorrect : The Optional type wraps one other data type, and returns a type that matches undef in addition to that type.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_data\_undef.html#related-data-typesThe correct answer is: Scalar

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Question 31: **Correct**

**Out of the categories below which do not appear in a report of Puppet::Util::Metric object?**

* A. time
* B. resources
* C. events
* D. audit

**(Correct)**

* E. changes

**Explanation**

Option D is correct : audit is not a category within Puppet::Util::Metric unitOption A is incorrect : In the time category, there is a metric for every resource type for which there is at least one resource in the catalog, plus two additional metrics, called config\_retrieval and total. Each value in the time category is a float.Option B is incorrect : In the resources category, the metrics are failed, out\_of\_sync, changed, and total. Each value in the resourcescategory is an integer.Option C is incorrect : In the events category, there are up to five metrics: success, failure, audit, noop, and total. total is always present; the others are only present when their values are non-zero. Each value in the events category is an integer.Option E is incorrect : In the changes category, there is only one metric, called total. Its value is an integer.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/format\_report.html#puppetutilmetricThe correct answer is: audit

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Question 32: **Incorrect**

**Which of the below are not catalog statements?**

* A. include
* B. require
* C. contain
* D. notice

**(Correct)**

* E. realize

**(Incorrect)**

**Explanation**

Option D is correct : logs message at notice levelOption A is incorrect : includes given classes in catalogOption B is incorrect :includes given classes in the catalog and adds them as a dependency of the current class or defined resourceOption C is incorrect : includes given classes in the catalog and contains them in the current classOption E is incorrect : makes a virtual resource realFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_functions.html#catalog-statementsThe correct answer is: notice

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Question 33: **Correct**

**Application components can share information with each other by exporting and consuming environment-wide service resources. Which of the following statements is incorrect about these service resources?**

* A. Provide an abstraction so that you no longer need to hard-code dependencies in modules.
* B. Service resources Transport data between nodes participating in an application.
* C. Service resources help components work together even if they are managed by Puppet on different servers
* D. Service resource instances can be same across an environment.

**(Correct)**

* E. Service resources are stored, like other resources, in PuppetDB

**Explanation**

Option D is correct: Service resource instances must be unique across an environment.Options A, B, C, and E are incorrect: They are true. Please refer the documentation belowFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_applications/producing\_and\_consuming\_service\_resources.html#exporting-and-consuming-service-resourcesThe correct answer is: Service resource instances can be same across an environment.

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Question 34: **Incorrect**

**Which of the following characters are not allowed in parameter names? [Choose 2]**

* A. Lowercase letters
* B. Upper case letters
* C. Period

**(Correct)**

* D. Digits
* E. Hyphen

**(Correct)**

**Explanation**

Options C and E are correct: Periods(.) and hyphens(-) cannot be included in a parameterOptions A, B, and D are incorrect: Class and defined type parameters begin with a $ (dollar sign), and their first non-$ character must be a lowercase letter. They can include:?     Lowercase letters?     Uppercase letters?     Digits?     UnderscoresParameter names should match the following regular expression:\A\$[a-z][a-z0-9\_]\*\ZFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_reserved.html#parametersThe correct answers are: Period, Hyphen

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Question 35: **Incorrect**

**In the puppet enterprise high availability architechture, some components and services are activated immediately when you enable a replica, others aren't active until you promote a replica. Which are the ones which get activated when the replica is promoted?[Choose 3]**

* A. Node classifier service

**(Incorrect)**

* B. Certificate authority

**(Correct)**

* C. PuppetDB
* D. Orchestration service

**(Correct)**

* E. Console service UI

**(Correct)**

**Explanation**

Option B, D and E are correct : Certificate authority, Orchestration service and Console service UI are activated when replica is promotedOption A and C are incorrect : Node classifier service and PuppetDB are activated when replica is enabledFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/high\_availability/high\_availability\_overview.html#high-availability-architectureThe correct answers are: Certificate authority, Orchestration service, Console service UI

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Question 36: **Incorrect**

**In Puppet Enterprise which are the default users already present when Puppet server is installed?**

* A. deploy

**(Incorrect)**

* B. admin

**(Correct)**

* C. viewers

**(Incorrect)**

* D. api\_user

**(Correct)**

* E. operators

**Explanation**

Option B and D are correct : admin and api\_user are by default created and they have administrators roleOption A, C and E are incorrect : deploy user is not created by default, operators and viewers are rolesFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/rbac/rbac\_user\_roles\_intro.htmlThe correct answers are: admin, api\_user

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Question 37: **Incorrect**

**Hiera uses three independent layers of configuration. Each layer has its own hierarchy, and they’re linked into one super-hierarchy before doing a lookup. Which are the three config layers of  Hiera?**

* A. production
* B. global

**(Correct)**

* C. environment

**(Correct)**

* D. module

**(Correct)**

* E. local

**(Incorrect)**

**Explanation**

Option B is correct : The configuration file for the global layer is located, by default, in $confdir/hiera.yaml. You can change the location by changing the hiera\_config setting in puppet.conf.Option C is correct : The configuration file for the global layer is located, by default, <ENVIRONMENT DIR>/hiera.yaml.Option D is correct : The configuration file for a module layer is located, by default, in a module’s <MODULE>/hiera.yaml.Option A is incorrect : production is an environment which is by defaultOption E is incorrect : local is not a valid environment or layerFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/hiera\_intro.html#hieras-three-config-layersThe correct answers are: global, environment, module

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Question 38: **Incorrect**

**Which of the below configuration settings are related to Puppet server?[Choose 3]**

* A. noop

**(Incorrect)**

* B. puppet-admin

**(Correct)**

* C. jruby-puppet

**(Correct)**

* D. ssl\_client\_header

**(Incorrect)**

* E. JAVA\_ARGS

**(Correct)**

**Explanation**

Option B is correct : This Setting is used to control which authorized clients can use the admin interface.Option C is correct : This setting provides details on tuning JRuby for better performance.Option E is correct : This setting sets Instructions on tuning the Puppet Server memory allocation.Option A is incorrect : This parameter is used in agents to control the run behaviour. If enabled, the agent won’t do any work; instead, it will look for changes that should be made, then report to the master about what it would have doneOption D is incorrect : These are used when running Puppet master as a Rack applicationFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_important\_settings.html#puppet-server-related-settingsThe correct answers are: puppet-admin, jruby-puppet, JAVA\_ARGS

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Question 39: **Incorrect**

**Which of the statements are incorrect about defined types?**

* A. Instances of a defined type can be declared the same way a normal resource is declared
* B. If a defined type is present and loadable, you can declare resources of that defined type anywhere in your manifests.
* C. The declaration of a defined type instance cannot include any metaparameter

**(Correct)**

* D. Every parameter of a defined type can be used as a local variable inside the definition

**(Incorrect)**

* E. every resource in the definition will be different in every instance

**Explanation**

Option C is correct :The declaration of a defined type instance can include any metaparameterOption A,B, D and E are incorrect : These statements are trueFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_defined\_types.htmlThe correct answer is: The declaration of a defined type instance cannot include any metaparameter

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Question 40: **Incorrect**

**In addition to Facter’s core facts and any custom facts, Puppet creates some special variables of its own. Which of the below are not in the main categories of special variables ?**

* A. The $trusted hash
* B. Agent facts

**(Incorrect)**

* C. Variables set by hiera

**(Correct)**

* D. Puppet master variables
* E. Compiler variables

**Explanation**

Option C is correct : Variables set by hiera is not a special variableOption A is incorrect :The $trusted hash, which has trusted data from the node’s certificateOption B is incorrect : Agent facts, which are set by puppet agent or puppet applyOption D is incorrect : Puppet master variables, which are set by the Puppet master (and sometimes by puppet applyOption E is incorrect : Compiler variables, which are special local variables set for each scope.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_facts\_and\_builtin\_vars.html#special-variables-added-by-puppetThe correct answer is: Variables set by hiera

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Question 41: **Incorrect**

**Which of the below statements in incorrect about a provider?**

* A. The first argument must be the name of the provider, as a :symbol
* B. The optional :parent argument should be the name of a parent class
* C. The optional :source argument should be a symbol

**(Incorrect)**

* D. A provider cannot inherit from a base provider

**(Correct)**

* E. The block takes no arguments, and implements the behavior of the provider

**Explanation**

Option D is correct :A provider can inherit from a base provider, which is never used alone and only exists for other providers to inherit from. Use the full name of the class.For example, all package providers have a common parent class:Puppet::Type.type(:package).provide(:dpkg, :parent => Puppet::Provider::Package) do  desc "..."  ...endOption A B, C and E are incorrect : These statements are correctFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/provider\_development.html#declarationThe correct answer is: A provider cannot inherit from a base provider

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Question 42: **Incorrect**

**Out of the following what are three types of data that PuppetDB does not store?[Choose 2]**

* A. facts
* B. catalogs
* C. reports

**(Incorrect)**

* D. classification

**(Correct)**

* E. functions

**(Correct)**

**Explanation**

Option D and E are correct : Classification and functions are not contained in PuppetDBOption A is incorrect : Puppetdb contains the most recent facts from every nodeOption B is incorrect : Puppetdb contains the most recent catalog for every nodeOption C is incorrect : Puppetdb contains Optionally, 14 days (configurable) of event reports for every nodeFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppetdb/5.1/index.html#what-dataThe correct answers are: classification, functions

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Question 43: **Incorrect**

**Several variables which are not available in the $facts hash are set by the Puppet master. Which one of the below is incorrect?**

* A. $servername
* B. $serverip
* C. $environment

**(Incorrect)**

* D. $module\_name

**(Correct)**

* E. $serverversion

**Explanation**

Option D is correct : This is a compiler variableOption A is incorrect : Sets the Puppet master’s fully-qualified domain name.Option B is incorrect : Sets the Puppet master’s IP addressOption C is incorrect : Sets the agent node’s environment.Option E is incorrect : Sets the current version of Puppet on the Puppet master.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_facts\_and\_builtin\_vars.html#puppet-master-variablesThe correct answer is: $module\_name

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Question 44: **Incorrect**

**Which of the following are acceptable class names? [Choose 2]**

* A. settings

**(Incorrect)**

* B. var\_temp

**(Correct)**

* C. site

**(Incorrect)**

* D. hello

**(Correct)**

* E. main

**Explanation**

Options B and D are correct: var\_temp and hello are not a reserved name or variable, can be used.Options A, C, and E are incorrect: main and settings are built-in namespaces and site is a language keywordFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_reserved.html#reserved-class-namesThe correct answers are: var\_temp, hello

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Question 45: **Incorrect**

**Which of the below are not metaparameters?[Choose 2]**

* A. alias

**(Incorrect)**

* B. schedule

**(Incorrect)**

* C. file

**(Correct)**

* D. stage
* E. package

**(Correct)**

**Explanation**

Option C and E are correct : file and package are resource typesOption A, B and D are incorrect : alias, schdule and stage are metaparametersFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/metaparameter.htmlThe correct answers are: file, package

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Question 1: **Incorrect**

**Which of the below statements is incorrect about application orchestration?**

* A. A service that orchestrates configuration enforcement in a directed manner from the environment level to the node level.

**(Incorrect)**

* B. It is a command-line tool for executing orchestration jobs, inspecting those jobs, and understanding application instances declared in an environment.
* C. Configuration updates are randomly applied when agents choose to check in.

**(Correct)**

* D. The additions to the Puppet language enable you to model how the physical components of a node configurations relate to each other.

#### Explanation

Configuration updates are are no longer randomly applied when agents choose to check in. Instead, you can directly apply node configurations in a specified order.All other options are valid for application orchestration.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_applications/application\_orchestration\_overview.html#application\_orchestration\_overviewThe correct answer is: Configuration updates are randomly applied when agents choose to check in.

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Question 2: **Correct**

**You want to deploy a custom configuration ~/.puppetlabs/myconfigfile/puppet-code.conf on your puppet environments. Which of the below methods can help you achieve that?**

* A. puppet-code --config-file ~/.puppetlabs/myconfigfile/puppet-code.conf deploy --all

**(Correct)**

* B. puppet-code deploy --all --wait
* C. puppet-code --config-file ~/.puppetlabs/myconfigfile/puppet-code.conf deploy production --wait
* D. puppetcode --config-file ~/.puppetlabs/myconfigfile/puppet-code.conf deploy --all

#### Explanation

Option A is correct : This command will pick the configuration from the config file ~/.puppetlabs/myconfigfile/puppet-code.conf and deploy to all the environmentsOption B is incorrect : This will deploy the default configuration to all the environmentsOption C is incorrect : This will deploy only to the production environmentOption D is incorrect : This has a syntax error ‘puppet-code’For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/puppet\_code.html#deploying-environments-with-puppet-codeThe correct answer is: puppet-code --config-file ~/.puppetlabs/myconfigfile/puppet-code.conf deploy --all

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Question 3: **Incorrect**

**Which of the below ports is used by mcollective to accept inbound traffic/requests from Puppet agents?**

* A. 8140
* B. 443
* C. 61613

**(Correct)**

* D. 8142

**(Incorrect)**

#### Explanation

Option C is correct : MCollective uses this port to accept inbound traffic/requests from Puppet agents. Any host used to invoke commands must be able to reach MCollective on this port. Classifier group: “PE ActiveMQ Broker”Option A is incorrect : The Puppet master uses this port to accept inbound traffic/requests from Puppet agents.Option B is incorrect : This port provides host access to the PE console.The PE Console accepts HTTPS traffic from end-users on this port.Option D is incorrect : Orchestration services and the Run Puppet button use this port to accept inbound traffic/responses from Puppet agents (via the PXP agent/PCP broker).For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/installing/system\_configuration.html#firewall-configuration-for-monolithic-installations-with-compile-mastersThe correct answer is: 61613

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Question 4: **Incorrect**

**Which of the below are valid statements of the producing and consuming service?**

* A. produces

**(Correct)**

* B. consumes

**(Correct)**

* C. report

**(Incorrect)**

* D. export

**(Correct)**

#### Explanation

Option A is correct : The produces statement allows you to define a mapping from a component providing a service to a service resource. Further, it allows you to define how a service resource is created when an application is configured, and it defines the complete content of the service resource.Option B is correct : When instantiating a resource that is declared to consume a capability, the consume statement can be used to fill attributes of the resource being instantiated.Option D is correct : When declaring an application component, the export statement is used to produce an instance of the service resource as produced by the node managing that application component.Option C is incorrect : report is not a statment in producing and consuming serviceFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_applications/producing\_and\_consuming\_service\_resources.htmlThe correct answers are: produces, consumes, export

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Question 5: **Incorrect**

**Which config file sets mount points for Puppet Server’s web applications?**

* A. global.conf
* B. web-routes.conf

**(Correct)**

* C. puppetserver.conf
* D. pe.conf

**(Incorrect)**

#### Explanation

Option B is correct : The web-routes.conf file configures the Puppet Server web-router-service, which sets mount points for Puppet Server’s web applications. You should not modify these mount points, as Puppet 4 agents rely on Puppet Server mounting them to specific URLs.Option A is incorrect : The global.conf file contains global configuration settings for Puppet ServerOption C is incorrect : The puppetserver.conf file contains settings for Puppet Server software.Option D is incorrect : pe.conf is used for specifying parameter values while installing puppet enterprise.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppetserver/5.1/config\_file\_web-routes.htmlThe correct answer is: web-routes.conf

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Question 6: **Correct**

**What does the ssldir directory contains?**

* A. puppet certificates

**(Correct)**

* B. private keys

**(Correct)**

* C. csr\_attributes.yaml
* D. certificate signing requests (CSRs)

**(Correct)**

#### Explanation

Option A, B and D are correct : The ssldir directory on Agent nodes and Puppet masters contain a private key (private\_keys/<certname>.pem), a public key (public\_keys/<certname.pem>), a signed certificate (certs/<certname>.pem), a copy of the CA certificate (certs/ca.pem), and a copy of the certificate revocation list (CRL) (crl.pem). They usually also retain a copy of their CSR after submitting it (certificate\_requests/<certname>.pem). If these files don’t exist, they are either generated locally or requested from the CA Puppet master.Option C is incorrect : The csr\_attributes.yaml file is located at $confdir/csr\_attributes.yaml by default. Its location is configurable with the csr\_attributes settingFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/dirs\_ssldir.html#what-the-ssldir-directory-containsThe correct answers are: puppet certificates, private keys, certificate signing requests (CSRs)

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Question 7: **Incorrect**

**You have a config file names test.pp which you want to run and implement your changes. Which is the command you will use to run this single file?**

* A. puppet agent -t

**(Incorrect)**

* B. puppet apply test.pp

**(Correct)**

* C. puppet deploy test.pp
* D. puppet agent test.pp

#### Explanation

Option B is correct : ‘puppet apply test.pp’ is used for applying a single puppet config to our puppet server or agentOption A is incorrect : ‘puppet agent -t’ will deploy all the current configuration catalogs on the  agentOption C is incorrect : ‘puppet deploy test.pp’ is an invalid commandOption D is incorrect : ‘puppet agent test.pp’ is an incomplete commandFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/dirs\_manifest.html#with-puppet-applyThe correct answer is: puppet apply test.pp

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Question 8: **Incorrect**

**You have duplicate modules in your puppet code. What will be the puppet run result?**

* A. Puppet run would throw an error

**(Incorrect)**

* B. Puppet would result values from both the modules
* C. Puppet uses the version from the directory that comes earliest in the modulepath.

**(Correct)**

* D. Puppet would show nothing

#### Explanation

Option C is correct : If the modulepath contains multiple modules with the same name, Puppet uses the version from the directory that comes earliest in the modulepath. This allows directories earlier in the modulepath to override later directories.For most content, this earliest-module-wins behavior is on an all-or-nothing, per-module basis — all of the manifests, files, and templates in the winning version will be available for use, and \*none of that content from any subsequent versions will be available. This behavior covers:-       Puppet code (from manifests)-       Files (from files)-       Templates (from templates)-       External facts (from facts.d)-       Ruby plugins synced to agent nodes (from lib) Option A, B and D are incorrect : Refer comments above For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/dirs\_modulepath.html#duplicate-or-conflicting-modules-and-contentThe correct answer is: Puppet uses the version from the directory that comes earliest in the modulepath.

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Question 9: **Correct**

**Is the reference for the code directoy valid in the below snippet?[master]environmentpath = $codedir/override\_environments:$codedir/environments**

* A. True

**(Correct)**

* B. False

#### Explanation

Option A is correct : Since the value of the codedir is discovered before other settings, you can safely reference it (with the $codedir variable) in the value of any other setting in puppet.conf:For additional information on this subject, please refer the below URL:https://docs.puppet.com/puppet/5.0/dirs\_codedir.html#interpolation-of-codedirThe correct answer is: True

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Question 10: **Incorrect**

**Analyze the below exhibit. Which of the below statements are true?**

**file { '/etc/aliases':**

**source => 'puppet://server/module/aliases',**

**}# Rebuild the database, but only when the**

**file changesexec { newaliases:**

**path => ['/usr/bin', '/usr/sbin'],**

**subscribe => File['/etc/aliases'],**

**refreshonly => true,**

**}**

* A. It will throw a compilation error
* B. If the file ‘/etc/aliases’ changes, it will rebuild the newaliases

**(Correct)**

* C. We should use ‘require’ instead of ‘refreshonly’
* D. Path is an invalid attribute

**(Incorrect)**

#### Explanation

Option B is correct : The subscribe attribute will trigger an action when the file ‘/etc/aliases’ changes, it will rebuild the newaliasesOption A is incorrect : The syntax is correct, there would be no errorOption C is incorrect : only subscribe and notify can trigger actions, not require, so it only makes sense to use refreshonly with subscribe or notify.Option D is incorrect : The path attribute is correct. The search path used for command execution. Commands must be fully qualified if no path is specified. Paths can be specified as an array or as a ‘:’ separated list.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types/exec.html#exec-attribute-refreshonlyThe correct answer is: If the file ‘/etc/aliases’ changes, it will rebuild the newaliases

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Question 11: **Incorrect**

**Which two class definitions (assuming default ordering of the catalog is 'manifest') would cause an error in catalog compilation? [Choose 2]**

* A. class profile::webserver { contain nginxclass { nginx:listen\_address => '10.1.1.1',}}

**(Correct)**

* B. class profile::webserver {class { 'nginx':listen\_address => '10.1.1.1',}include nginx}
* C. class profile::webserver {class { 'nginx':listen\_address => '10.1.1.1',}contain nginx }

**(Incorrect)**

* D. class profile::webserver {include nginxclass { 'nginx':  listen\_address => '10.1.1.1',  }  }

**(Correct)**

#### Explanation

Option A is correct: The ‘contain’ function is used before the class declarationOption D is correct: The include function is used before the class is declaredOption B is incorrect: The include function is used correctlyOption C is incorrect: The contain function is used correctlyFor additional information on this subject, please refer the below URLs:https://puppet.com/docs/puppet/5.3/lang\_containment.htmlhttps://puppet.com/docs/puppet/5.0/configuration.html#orderinghttps://puppet.com/docs/puppet/5.0/lang\_relationships.htmlThe correct answers are: class profile::webserver { contain nginxclass { nginx:listen\_address => '10.1.1.1',}}, class profile::webserver {include nginxclass { 'nginx':  listen\_address => '10.1.1.1',  }  }

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Question 12: **Incorrect**

**In the include-like behaviour, which functions let you safely declare a class multiple times that will only be added to the catalog once?[Choose 3]**

* A. include

**(Correct)**

* B. require

**(Correct)**

* C. contain

**(Correct)**

* D. hiera

**(Incorrect)**

#### Explanation

Option A, B and C are correct : The include, require, contain, and hiera\_include functions let you safely declare a class multiple times; no matter how many times you declare it, a class will only be added to the catalog once. This can allow classes or defined types to manage their own dependencies, and lets you create overlapping “role” classes where a given node can have more than one role.Option D is incorrect : ‘hiera\_include’ function can be used to declare classesFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_classes.html#include-like-behaviorThe correct answers are: include, require, contain

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Question 13: **Incorrect**

**In the below example, what would be the equivalent of the require statement in the 2nd class?**

**class apache {**

**service {'apache':**

**require => Package['httpd'],**

**}}**

**class apache::ssl inherits apache { # host certificate is required for SSL to function**

**Service['apache'] {**

**require => [ Package['httpd'],**

**File['apache.pem'],**

**File['httpd.conf'] ],**

**}}**

* A. require +>  File['apache.pem'] => File['httpd.conf'],
* B. require +> [ File['apache.pem'], File['httpd.conf'] ],

**(Correct)**

* C. require -> [ File['apache.pem'], File['httpd.conf'] ],

**(Incorrect)**

* D. require = [ File['apache.pem'], File['httpd.conf'] ],

#### Explanation

Option B is correct: When overriding attributes in a derived class, you can add to the existing values instead of replacing them by using the +> (“plusignment”) keyword instead of the standard => hash rocket:Option A is incorrect: Its incorrect syntax as it contains ‘=>’Option C is incorrect: Its incorrect syntax as it contains ‘->’Option D is incorrect: It is incorrect as it contains ‘=’For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_classes.html#appending-to-resource-attributesThe correct answer is: require +> [ File['apache.pem'], File['httpd.conf'] ],

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Question 14: **Correct**

**which of the following is not a valid hiera configuration layer?**

* A. global
* B. local

**(Correct)**

* C. environment
* D. module

#### Explanation

Option B is correct : local is not a valid layer of configuration for hieraOption A is incorrect : The location for global layer is $confdir/hiera.yamlOption C is incorrect : The location for environment layer is [<ENVIRONMENT>][environment]/hiera.yamlOption D is incorrect : The location for module layer is  <MODULE>/hiera.yamlFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/hiera\_config\_yaml\_5.html#location-of-hierayaml-filesThe correct answer is: local

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Question 15: **Incorrect**

**Which of the exec attributes make it idempotent?[Choose 3]**

* A. require

**(Incorrect)**

* B. onlyif

**(Correct)**

* C. unless

**(Correct)**

* D. creates

**(Correct)**

#### Explanation

Option B is correct : A test command that checks the state of the target system and restricts when the exec can run. If present, Puppet runs this test command first, and only runs the main command if the test has an exit code of 0 (success). For example:exec { 'logrotate': path     => '/usr/bin:/usr/sbin:/bin', provider => shell, onlyif   => 'test `du /var/log/messages | cut -f1` -gt 100000',}This would run logrotate only if that test returns true.Option C is correct : A test command that checks the state of the target system and restricts when the exec can run. If present, Puppet runs this test command first, then runs the main command unless the test has an exit code of 0 (success). For example:exec { '/bin/echo root >> /usr/lib/cron/cron.allow':  path   => '/usr/bin:/usr/sbin:/bin',  unless => 'grep root /usr/lib/cron/cron.allow 2>/dev/null',}This would add root to the cron.allow file (on Solaris) unless grep determines it’s already there.Option D is correct : A file to look for before running the command. The command will only run if the file doesn’t exist.This parameter doesn’t cause Puppet to create a file; it is only useful if the command itself creates a file.exec { 'tar -xf /Volumes/nfs02/important.tar':  cwd     => '/var/tmp',  creates => '/var/tmp/myfile',  path    => ['/usr/bin', '/usr/sbin',],}Option A is incorrect : Only subscribe and notify can trigger actions, not requireFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types/exec.html#execThe correct answers are: onlyif, unless, creates

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Question 16: **Incorrect**

**Select two of the below chaining arrow syntax examples that are not following the best practices of puppet language style guide?**

* A. Package['httpd'] -> Service['httpd']

**(Incorrect)**

* B. Service['httpd'] <- Package['httpd']

**(Correct)**

* C. Package['httpd']-> Service['httpd']
* D. Package['httpd'] ->Service['httpd']

**(Correct)**

#### Explanation

Option A is incorrect: The resources points left to right which is a good practiceOption C is incorrect: If the chaining resources are line separated, it should be on the line of right-hand operandOption B is correct: Chaining arrows must be used left to right. They do have reversed forms but most of Puppet’s syntax is written left-to-right. Avoid these reversed forms as they can be confusing.Option D is correct: Must be on the right-hand operand's lineFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/style\_guide.html#chaining-arrow-syntaxThe correct answers are: Service['httpd'] <- Package['httpd'], Package['httpd'] ->Service['httpd']

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Question 17: **Correct**

**If you have a string value that contains template content, you can evaluate it with the which of the below functions?[Choose 2]**

* A. epp
* B. Inline\_template

**(Correct)**

* C. Inline\_epp

**(Correct)**

* D. template

#### Explanation

Option B is correct : inline\_epp can be used when you have template content in a sting See the example below$ntp\_conf\_template = @(END)...template content goes here...END# inline\_epp(<TEMPLATE STRING>, [<PARAMETER HASH>])file { '/etc/ntp.conf':  ensure  => file,  content => inline\_epp($ntp\_conf\_template, {'service\_name' => 'xntpd', 'iburst\_enable' => true}),}Option C is correct : inline\_template can be used when you have template content in a sting See the example below# inline\_template(<TEMPLATE STRING>, [<ADDITIONAL STRINGS>, ...])file { '/etc/ntp.conf':  ensure  => file,  content => inline\_template($ntp\_conf\_template),}Option A is incorrect : EPP templates can declare parameters, and you can provide values for them by passing a parameter hash to the epp function.Option D is incorrect : template is a function used when we provide erb template files as an attribute to a resourceFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_template.html#with-a-template-string-inlinetemplate-and-inlineeppThe correct answers are: Inline\_template, Inline\_epp

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Question 18: **Correct**

**Which of the below operators takes precedence in Puppet?**

* A. in
* B. !

**(Correct)**

* C. \*
* D. =

#### Explanation

Option B is correct : The unary not operator takes the highest precedenceOption A is incorrect : ‘in’ has the fourth precendence after  ‘!’, ‘-’ and ‘\*’Option C is incorrect : The unary: array splat has third precedence after ‘!’ and ‘-’Option D is incorrect : The assignment operator(=) has the least precendenceFor additional information on this subject, please refer the below URL: https://puppet.com/docs/puppet/5.3/lang\_expressions.html#order-of-operationsThe correct answer is: !

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Question 19: **Incorrect**

**Consider the below exhibit. What would be the value of variable $variable when we run -Puppet apply site.pp? # /etc/puppetlabs/code/modules/scope\_example/manifests/init.ppclass scope\_example {  $variable = "Hi, I'm local!"  notify {"Message from here: $variable":}}# /etc/puppetlabs/code/environments/production/manifests/site.pp$variable = "Hi, I'm top!"node 'puppet.example.com' {  $variable = "Hi, I'm node!"  include scope\_example}**

* A. notice: Message from here: Hi, I'm top!
* B. notice: Message from here: Hi, I'm node!

**(Incorrect)**

* C. notice: Message from here: Hi, I'm local!

**(Correct)**

* D. notice: Message from here:

#### Explanation

Option C is correct : Variables and defaults declared at node scope can override those received from top scope. That is: if multiple variables with the same name are available, Puppet will use the “most local” one.Option A is incorrect : Variables and defaults declared at node scope can override those received from top scopeOption B is incorrect : Variable declared at local scope can override those received from node and top scope, as well as any parent scopesOption D is incorrect : Incorrect as it would use the most local valueFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_scope.html#overriding-received-valuesThe correct answer is: notice: Message from here: Hi, I'm local!

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Question 20: **Correct**

**From the below exhibit which one is following the best practice?**

* A. file { '/var/log/syslog':  ensure => file,  mode   => '0644',}

**(Correct)**

* B. file { '/var/log/syslog':  ensure => file,  mode   => 644,}
* C. file { '/var/log/syslog':  ensure => file,  mode   => ‘644’,}
* D. file { '/var/log/syslog':  ensure => file,  mode   => 0644,}

#### Explanation

Option A is correct : POSIX numeric notation must be represented as 4 digits.?     POSIX symbolic notation must be a string.?     You should not use file mode with Windows; instead use the acl module.?     You should use numeric notation whenever possible.?     The file mode attribute should always be a quoted string, never an integer.Option B is incorrect : This exhibit has the mode in 3 digits and without quotesOption C is incorrect : This exhibit has the mode in 3 digitsOption D is incorrect : This exhibit has the mode without quotes as it should be always represented as a stringFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/style\_guide.html#file-modesThe correct answer is: file { '/var/log/syslog':  ensure => file,  mode   => '0644',}

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Question 21: **Incorrect**

**For the below exhibit, which are the statements correct?**

**exec { 'logrotate':**

**path => '/usr/bin:/usr/sbin:/bin',**

**provider => shell,**

**onlyif   => 'test `du /var/log/messages | cut -f1` -gt 100000',**

**}**

* A. This would fail with a compilation error
* B. This would run logrotate only if that test returns true

**(Correct)**

* C. It will do nothing
* D. Puppet runs this test command first, and only runs the main command if the test has an exit code of 1

**(Incorrect)**

#### Explanation

Option B is correct : The onlyif attribute will ensure to have a true value and would execute the logrotateOption A is incorrect : The syntax is correctOption C is incorrect : It will logrotate if the command value it trueOption D is incorrect : Puppet runs this test command first, and only runs the main command if the test has an exit code of 0For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types/exec.html#exec-attribute-onlyifThe correct answer is: This would run logrotate only if that test returns true

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Question 22: **Correct**

**Consider an array example -**

**$foo = [ 'one', 'two', 'three', 'four', 'five' ]**

**What would be the outcome of notice( $foo[2,-1] ) ?**

* A. evaluates to ['three']
* B. evaluates to ['three', 'four']
* C. evaluates to ['three', 'four', 'five']

**(Correct)**

* D. evaluates to ['four']

#### Explanation

Option C is correct : The result of an array section is always another array.The first number of the index is the start position.The second number of the index is the stop position.?     Positive numbers will count from the start of the array, starting at 0.?     Negative numbers will count back from the end of the array, starting at -1.Option A is incorrect : ‘three’ is at postion [2,1]Option B is incorrect : 'three', 'four’ is at position [2,2]Option D is incorrect : ‘four’ is at position [-2,1]For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_data\_array.html#array-sectioningThe correct answer is: evaluates to ['three', 'four', 'five']

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Question 23: **Incorrect**

**Which command would you use to install a module puppetlabs-apache from another module repository?**

* A. puppet module install puppetlabs-apache
* B. puppet module install --module\_repository http://dev-forge.example.com puppetlabs-apache

**(Correct)**

* C. puppet module install ~/puppetlabs-apache-0.10.0.tar.gz
* D. puppet module install puppetlabs:apache

**(Incorrect)**

#### Explanation

Option B is correct : The puppet module command can install modules from other repositories that mimic the Forge’s interface. You can change the module repository for one installation, or you can change your default repository.The normal default module repository is the Forge, so the default module\_repository value is https://forgeapi.puppetlabs.com.?     To change the default module repository, edit the module\_repository setting in puppet.conf to the base URL of the repository you want to use.?     To change the repository for a single module installation only, specify the base URL of the repository when you install the module. Use the --module\_repository option to set this.Option A is incorrect : To install a module from the Puppet Forge, use the puppet module install command with the full name of the module you want.The full name of a Forge module is formatted as username-modulenameOption C is incorrect : To install a module from a release tarball, specify the path to the tarball instead of the module name.Option D is incorrect : puppetlabs:apache in an incorrect commandFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_installing.html#installing-from-another-module-repositoryThe correct answer is: puppet module install --module\_repository http://dev-forge.example.com puppetlabs-apache

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Question 24: **Incorrect**

**You have written a test function to test a functionality of the application. In which directory of the module structure will the test function reside?**

* A. templates
* B. functions
* C. examples

**(Correct)**

* D. manifests

**(Incorrect)**

#### Explanation

Option C is correct: The 'examples' directory contains examples showing how to declare the module’s classes and defined types.Option A is incorrect: The ‘templates’ directory contains templates, which the module’s manifests can useOption B is incorrect: The ‘functions’ directory contains custom functions written in the Puppet language.Option D is incorrect: The 'manifests' Contains all of the manifests in the module.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_fundamentals.html#exampleThe correct answer is: examples

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Question 25: **Correct**

**For the given example using selector statement, waht would puppet return if none of the values match?**

**$rootgroup = $facts['os']['family'] ? {**

**'Solaris'  => 'wheel',**

**/(Darwin|FreeBSD)/ => 'wheel',**

**default  => 'root',**

**}**

**file { '/etc/passwd':**

**ensure => file,**

**owner  => 'root',**

**group  => $rootgroup,**

**}**

* A. The default value would be used

**(Correct)**

* B. Puppet will do nothing
* C. Puppet will fail compilation with an error.

#### Explanation

Option A is correct: If none of the values match, then the default value('root' in this cases) will be returned. Option B is incorrect: Puppet will return the default valueOption C is incorrect: Puppet will return the default valueFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_conditional.html#behavior-3The correct answer is: The default value would be used

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Question 26: **Incorrect**

**In the below example, what would be the output?**

**[1, 2, 3, [1, 2]] - [1, 2]**

* A. [2, 3, 4, 5]
* B. [2, 3, 4, 5]
* C. [3, [1, 2]]

**(Correct)**

* D. [1, 2, 3]

**(Incorrect)**

#### Explanation

Option C is correct : Resolves to an array containing the elements in the left operand, with every occurrence of any elements in the right operand removed.Options A, B and D are incorrect : Both operands should be arrays; if the right operand is a scalar value, it will be converted to a single-element array first. Hash values aren’t automatically wrapped in arrays, so you must always do this yourself.If the left operand isn’t an array, Puppet will interpret - as arithmetic subtraction.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_expressions.html#removalThe correct answer is: [3, [1, 2]]

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Question 27: **Correct**

**You want to serve sshd\_config file from the module’s file directory to the agent nodes. What should be the value of the file\_url of  the source attribute in the below example?**

**package { 'openssh-server':**

**ensure => present,**

**} -> # and then:file { '/etc/ssh/sshd\_config':**

**ensure => file,**

**mode   => '0600',**

**source => 'file\_url',**

**} ~> # and then:service { 'sshd':**

**ensure => running,  enable => true,**

**}**

* A. source = 'puppet://modules/sshd/sshd\_config',
* B. source => 'puppet:///modules/sshd/sshd\_config',

**(Correct)**

* C. source = 'puppet:///modules/sshd/sshd\_config',
* D. source => 'puppet://modules/sshd/sshd\_config',

#### Explanation

Option B is correct : Files in a module’s files directory can be served to agent nodes. They can be downloaded by using puppet:/// URLs in the sourceattribute of a file resource.Option A is incorrect : It shoud use ‘=>’ and ‘///’ in the file pathOption C is incorrect : It shoud use ‘=>’Option D is incorrect : It shoud use ‘///’ in the file pathFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_fundamentals.html#files-in-modulesThe correct answer is: source => 'puppet:///modules/sshd/sshd\_config',

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Question 28: **Incorrect**

**Which is not the control expressions of a Unless statement?**

* A. Variables
* B. Expressions
* C. Undef values

**(Correct)**

* D. Functions  that return a value

**(Incorrect)**

#### Explanation

Option C is correct : The value of an if expression is the value of the last expression in the executed block, or undef if no block was executed.Option A is incorrect : Variables are the control expressions in unless statementOption B is incorrect : Expressions, including arbitrarily nested and and or expressionsOption D is incorrect :  All the functions that return a value are the control expressions in unless statementFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_conditional.html#behavior-2The correct answer is: Undef values

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Question 29: **Incorrect**

**Which of the below three parameters are required for enabling code manager during installation of Puppet?[Choose 3]**

* A. puppet\_enterprise::profile::master::r10k\_remote

**(Correct)**

* B. puppet\_enterprise::profile::master::r10k\_private\_key

**(Correct)**

* C. puppet\_enterprise::profile::master::r10k\_public\_key

**(Incorrect)**

* D. puppet\_enterprise::profile::master::code\_manager\_auto\_configure

**(Correct)**

#### Explanation

Option A is correct : This setting specifies the location of the control repository. It accepts a string that is a valid URL for your Git control repository.Option B is correct : This setting specifies the path to the file that contains the SSH private key used to access your Git repositories. The pe-puppet user must be able to access this location; we recommend /etc/puppetlabs/puppetserver/ssh/id-control\_repo.rsa.This SSH private key file, which you created when you set up your control repository, must be located on the Puppet master and owned by the pe-puppet userOption D is correct : This setting configures Code Manager, the Git control repository to use for storing code, and the private key for accessing your Git repos. Acceptable values are true and false (case sensitive). Set it to true to enable and configure Code Manager. If you set it to false, Code Manager and file sync are disabled.Option C is incorrect : public key is not required to be set for enabling code managerFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/code\_mgr\_config.html#enable-code-manager-during-installationThe correct answers are: puppet\_enterprise::profile::master::r10k\_remote, puppet\_enterprise::profile::master::r10k\_private\_key, puppet\_enterprise::profile::master::code\_manager\_auto\_configure

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Question 30: **Incorrect**

**To request an authentication token for code manager, you must first assign a user the correct permissions with role-based access control (RBAC). Which of the following role should be assigned?**

* A. Viewers
* B. Code Deployers

**(Correct)**

* C. Administrator
* D. Operator

**(Incorrect)**

#### Explanation

Option B is correct : To request an authentication token, you must first assign a user the correct permissions with role-based access control (RBAC).1.    In the console, create a deployment user. We recommend that you create a dedicated deployment user for Code Manager use.2.    Add the deployment user to the Code Deployers role. This role is automatically created on install, with default permissions for code deployment and token lifetime management.Option A is incorrect : Viewers have access only to viewOption C is incorrect : Administrators role manages users and their permissions, and create and modify node groups and other objects.Option D is incorrect :  Operators role creates and modifies node groups and other objects.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/code\_mgr\_config.html#assign-a-user-to-the-deployment-roleThe correct answer is: Code Deployers

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Question 31: **Incorrect**

**Which of the below r10k deploy subcommands displays a list of modules in the Puppetfile?**

* A. display
* B. display -p

**(Correct)**

* C. display --detail
* D. display --fetch

**(Incorrect)**

#### Explanation

Option B is correct: Displays a list of modules in the Puppetfile.Option A is incorrect: Displays a list of environments in your deployment.Option C is incorrect: Displays detailed information.Option D is incorrect: Update the environment sources. Allows you to check for missing environments.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/r10k\_commands.html#r10k-deploy-subcommandsThe correct answer is: display -p

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Question 32: **Incorrect**

**Below is the entry in the PuppetFilemod**

**'hieradata',**

**:git => 'git@git.example.com:organization/hieradata.git',**

**:branch => ‘production’,**

**:default\_branch => 'master'**

**Which statements are incorrect as per the above example?**

* A. Production branch will be deployed
* B. If the production branch fails code management logs an error and does not deploy or update the content

**(Correct)**

* C. Master branch is the failover branch if production branch fails

**(Incorrect)**

#### Explanation

Option B is correct : If the production branch fails, it will failover to the master branch.Option A is incorrect : The branch option will be first preference for code deploymentOption C is incorrect : If you specified a ref, tag, commit, or branch option for your repository, and it cannot be resolved and deployed, code management can instead deploy the default\_branchFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/puppetfile.html#set-a-default-branch-for-content-deploymentThe correct answer is: If the production branch fails code management logs an error and does not deploy or update the content

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Question 33: **Incorrect**

**What is the Resource Abstraction Layer?**

* A. Describing/declaring the state of a resource.

**(Correct)**

* B. Extensions of the Puppet language for describing configuration relationships between components of a distributed application.
* C. Provisioning application that deploys bare-metal systems

**(Incorrect)**

* D. Providers enforce the desired state.

**(Correct)**

#### Explanation

Option A is correct : By default, you must at least provide a type to list, in which case puppet resource will tell you everything it knows about all resources of that type.Option D is correct : If given a type, a name, and a series of attribute=value pairs, puppet resource will modify the state of the specified resource.Option B is incorrect : This is a definition of Application orchestrationOption C is incorrect : This is definition of RazorFor additional information on this subject, please refer the below URL:https://docs.puppet.com/puppet/latest/man/resource.htmlThe correct answers are: Describing/declaring the state of a resource., Providers enforce the desired state.

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Question 34: **Incorrect**

**We have a hierarchy of hiera config files as below and the following data. What will be the values of the respective parameters? –**

**web01.example.com  - common#**

**web01.example.com.yaml   mykey:**

**port: 8080   # common.yaml**

**mykey:  hostname: "web01.example.com"**

**docroot: "/var/www/html"**

**port: 80**

* A. {z => "80", hostname => "web01.example.com", docroot => "/var/www/html"}
* B. {z => "8080", hostname => "web01.example.com", docroot => "/var/www/html"}

**(Correct)**

* C. {z => "8080", hostname => "web01.example.com", docroot => "/var/www/web01.example.com/"}

**(Incorrect)**

* D. Puppet will throw an error for colliding values of port

#### Explanation

Option B is correct : The value in web01.example.com.yaml file will take preference and port will be 8080Option A is incorrect : Port 80 is incorrectOption C is incorrect : The docroot value /var/www/web01.example.com/ is incorrectOption D is incorrect : There will be no error. Puppet will take preference over the port value specified in the web01.example.com.yaml fileFor additional information on this subject, please refer the below URL:https://docs.puppet.com/hiera/3.3/lookup\_types.html#native-mergingThe correct answer is: {z => "8080", hostname => "web01.example.com", docroot => "/var/www/html"}

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Question 35: **Incorrect**

**Which of the following url is suitable for triggering code manager using webhook for  a github repository?**

* A. https://code-manager.example.com/code-manager/v1/webhook?type=github&token=<TOKEN>
* B. https://code-manager.example.com:8170/codemanager/v1/webhook?type=github&token=<TOKEN>

**(Incorrect)**

* C. https://code-manager.example.com:8170/code-manager/v1/webhook&token=<TOKEN>
* D. https://code-manager.example.com:8170/code-manager/v1/webhook?type=github&token=<TOKEN>

**(Correct)**

#### Explanation

Option D is correct : It has all the requirements of type, prefix and token in a webhook urlOption A is incorrect : This webhook is missing the port on which puppet would connectOption B is incorrect : This webhook is incorrect as its wrongly typed codemanager istead of code-managerOption C is incorrect :This webhook is missing the type For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/code\_mgr\_webhook.html#code-manager-webhook-query-parametersThe correct answer is: https://code-manager.example.com:8170/code-manager/v1/webhook?type=github&token=<TOKEN>

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Question 36: **Correct**

**You have 5 nodes of different domain names to add to the puppet master as below -Node1.example.com**

**Node2.example.com**

**Node3.example.com**

**Node4.example.com**

**Node5.example.com**

**You want to handle the certificate request without manual intervention but want to restrict the node name to your domain example.com. How will you achive this?**

* A. Add an entry in puppet.conf to accept requests for \*.example.com
* B. Add \* in autosign.conf
* C. Add \*.example.com in global.conf
* D. Add \*.example.com in autosign.conf

**(Correct)**

#### Explanation

Option D is correct : \*.example.com will match all the nodes with hostname example.comOption A is incorrect : puppet.conf file does not handle autosigning requestsOption B is incorrect : \* will allow all the nodes to get added in puppet masterOption C is incorrect : global.conf file does not handle autosigning requestsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_file\_autosign.htmlThe correct answer is: Add \*.example.com in autosign.conf

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Question 37: **Incorrect**

**For your development environment you want to override the modulepath and environment\_timeout values. Where should you specify these values for it to take preference?Choose 2 correct options.**

* A. The values cannot be overriden. All the environments have to use the same values
* B. Add the modulepath and environment\_timeout in $codedir/environments/development/environment.conf

**(Correct)**

* C. Add the modulepath and environment\_timeout in the manifests/init.pp file

**(Incorrect)**

* D. You can initiate a puppet run with the required values overriding it

**(Correct)**

#### Explanation

Option B is correct : ‘environment.conf’  file can override several settings whenever the Puppet master is serving nodes assigned to that environment.Option D is correct : Specifying values on the command line can also override the original valueOption A is incorrect : The values can be overriden using ‘environment.conf’ or via command lineOption C is incorrect : manifests/init.pp file has the original values set. It does not overrideFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/environments\_creating.html#the-environmentconf-fileThe correct answers are: Add the modulepath and environment\_timeout in $codedir/environments/development/environment.conf, You can initiate a puppet run with the required values overriding it

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Question 38: **Incorrect**

**In the below array assignments which is incorrect?**

* A. [$a, $b, $c] = [1,2,3]

**(Incorrect)**

* B. [$a, [$b, $c]] = [1,2,3]

**(Correct)**

* C. [$a, $b] = [1, [2]]
* D. [$a, [$b]] = [1, [2]]

#### Explanation

Option A is correct : This is correct array assignment and the value would be $a = 1, $b = 2, $c = 3Option C is correct : This is correct array assignment and the values would be $a = 1, $b = [2]Option D is correct : This is correct array assignment and the values would be $a = 1, $b = 2Option B is incorrect : The array has a nested array  [$b, $c] and the values are assigned as a single array [1,2,3]For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_variables.html#assigning-multiple-variablesThe correct answer is: [$a, [$b, $c]] = [1,2,3]

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Question 39: **Correct**

**Which kind of operands do chaining arrows accept on either side?[Choose 3]**

* A. Resource references

**(Correct)**

* B. Resource declarations

**(Correct)**

* C. Hash of Resource references
* D. Resource collectors

**(Correct)**

#### Explanation

Option A, B and D are correct : An operand can be shared between two chaining statements, which allows you to link them together into a “timeline”.Since resource declarations can be chained, you can use chaining arrows to make Puppet apply a section of code in the order that it is written:Example:Package['ntp'] -> File['/etc/ntp.conf'] ~> Service['ntpd']Option D is incorrect : It can contain Arrays of resource referencesFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_relationships.html#operandsThe correct answers are: Resource references, Resource declarations, Resource collectors

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Question 40: **Incorrect**

**From the below resource declaration examples which is  following the best practices of puppet language style guide?**

* A. "/etc/${file}.conf""${facts[\‘operatingsystem\’]} is not supported by ${module\_name}"
* B. "/etc/$file.conf""$facts['operatingsystem'] is not supported by ‘$module\_name’"
* C. ‘/etc/$file.conf’‘$facts['operatingsystem'] is not supported by $module\_name’

**(Incorrect)**

* D. "/etc/${file}.conf""${facts['operatingsystem']} is not supported by ${module\_name}"

**(Correct)**

#### Explanation

Option D is correct : The example in D option is following the best practice as it is having the correct quoting and use of interpolated variables. All strings must be enclosed in single quotes, with some exceptions.A string does not have to be in single quotes if it:?     Contains variables.?     Contains single quotes.?     Contains escaped characters not supported by single-quoted strings.?     Is an enumerable set of options, such as present/absent, in which case the single quotes are optional.?     All variables must be enclosed in braces when interpolated in a stringOption A is incorrect : The single quotes around ‘operatingsystem’ are escaped.Option B is incorrect : The interpolated variable $module\_name is enclosed by single quoteOption C is incorrect : The statement is quoted in single quotes rather than double quotes since it contains variablesFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/style\_guide.html#quotingThe correct answer is: "/etc/${file}.conf""${facts['operatingsystem']} is not supported by ${module\_name}"

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Question 41: **Correct**

**Which of the below exhibit would throw an dependency cycle error?**

* A. package { 'openssh-server':ensure => present,before => File['/etc/ssh/sshd\_config'],}file { '/etc/ssh/sshd\_config':ensure  => file,mode    => '0600',source  => 'puppet:///modules/sshd/sshd\_config',require => Package['openssh-server'],}
* B. file { '/etc/ssh/sshd\_config':ensure => file,mode   => '0600',source => 'puppet:///modules/sshd/sshd\_config',notify => Service['sshd'],}service { 'sshd':ensure    => running,enable    => true,subscribe => File['/etc/ssh/sshd\_config'],}
* C. package { 'openssh-server':ensure => present, require => File['/etc/ssh/sshd\_config'],}file { '/etc/ssh/sshd\_config':ensure  => file,mode    => '0600',source  => 'puppet:///modules/sshd/sshd\_config',require => Package['openssh-server'],}

**(Correct)**

* D. service { 'sshd':ensure  => running, require => [Package['openssh-server'],File['/etc/ssh/sshd\_config'], ],}package { 'openssh-server':ensure => present,before => Service['sshd'],}file { '/etc/ssh/sshd\_config':ensure => file,mode   => '0600',source => 'puppet:///modules/sshd/sshd\_config',before => Service['sshd'],}

#### Explanation

Option C is correct : The use of require metaparameter in both the resource decalaration would create a cyclical dependency. It would throw an error as below -err: Could not apply complete catalog: Found 1 dependency cycle:(<RESOURCE> => <OTHER RESOURCE> => <RESOURCE>)Option A is incorrect : This example creates the same ordering relationship and will execute without errorsOption B is incorrect : This example create the same notifying relationship and will execute without errorsOption D is incorrect : Since an array of resource references can contain resources of differing types, these two examples also create the same ordering relationship and will execute without errorsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_relationships.html#syntax-relationship-metaparametersThe correct answer is: package { 'openssh-server':ensure => present, require => File['/etc/ssh/sshd\_config'],}file { '/etc/ssh/sshd\_config':ensure  => file,mode    => '0600',source  => 'puppet:///modules/sshd/sshd\_config',require => Package['openssh-server'],}

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Question 42: **Correct**

**Which is the default enviroment when deploying code in Puppet Enterprise?**

* A. Development
* B. Production

**(Correct)**

* C. Master
* D. Staging

#### Explanation

Option B is correct : PE comes with a Production environment group that includes all nodes in the production environment by defaultOption A is incorrect : Developemt is not default but can be created and maintainedOption C is incorrect : Master is not default but can be created and maintainedOption D is incorrect : Staging is not default but can be created and maintainedFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.2/console\_classes\_groups\_environment\_override.html#workflowThe correct answer is: Production

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Question 43: **Correct**

**In the following snippet, what should be the path of the template file?**

**file { '/etc/ntp.conf':**

**ensure  => file,**

**content => epp('ntp/ntp.conf.epp', {'**

**service\_name' => 'xntpd',**

**'iburst\_enable' => true}**

**),**

**}**

* A. /etc/puppetlabs/code/environments/production/modules/ntp/ntp.conf.epp
* B. /etc/puppetlabs/code/environments/production/modules/ntp/templates/ntp.conf.epp

**(Correct)**

* C. /etc/puppetlabs/code/environments/production/modules/ntp/templates/ntp.conf.erb
* D. /etc/puppetlabs/code/environments/production/modules/ntp/ntp.conf.erb

#### Explanation

Option B is correct : This is the correct path which will load the ntp.conf.epp fileOption A is incorrect : The path is incorrect, its missing the templates directoryOption C is incorrect : EPP files should have the .epp extensionOption D is incorrect : EPP files should have the .epp extension and the path is also incorrect, its missing the templates directoryFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_template.html#with-a-template-file-template-and-eppThe correct answer is: /etc/puppetlabs/code/environments/production/modules/ntp/templates/ntp.conf.epp

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Question 44: **Incorrect**

**Which of the below statements are incorrect about ensure attribute?**

* A. Ensure checks wheter the file exists
* B. Ensure checks whether a service is running or stopped

**(Incorrect)**

* C. Ensure checks whether a package is installed or uninstalled
* D. Present and uninstall are the accepted values for Ensure

**(Correct)**

#### Explanation

Option D is correct : Present and absent are the accepted values for EnsureOption A, B and C are incorrect : Many resource types have an ensure attribute. This generally manages the most important aspect of the resource on the target system — does the file exist, is the service running or stopped, is the package installed or uninstalled, etc.Allowed values for ensure vary by resource type. Most accept present and absent, but there might be additional variations. Be sure to check the reference for each resource type you are working with.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_resources.html#ensureThe correct answer is: Present and uninstall are the accepted values for Ensure

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Question 45: **Incorrect**

**Which are the allowed values in a source attribute of a file resource type?[Choose 3]**

* A. puppet

**(Correct)**

* B. file

**(Correct)**

* C. http

**(Correct)**

* D. erb

**(Incorrect)**

#### Explanation

Option A is correct : URIs, which point to files in modules or Puppet file server mount points.Option B is correct : URIs, which behave the same as local file paths.Option C is correct : URIs, which point to files served by common web serversOption D is incorrect : erb is a type of the template fileFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types/file.html#file-attribute-sourceThe correct answers are: puppet, file, http

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Question 1: **Incorrect**

**Which one of the below configuration options takes preference over when code deploy via code manager is done?**

* A. the global configuration file

**(Incorrect)**

* B. User-specific configuration files on command line
* C. Individual configuration options directly on the command line

**(Correct)**

#### Explanation

Option C is correct :  If you specify individual configuration options directly on the command line, those options temporarily take precedence over anyconfiguration file settings.Option A is incorrect : If no other configuration is specified, puppet-code uses the settings in the global configuration file. User-specific configuration files override the global configuration fileOption B is incorrect : If you specify a configuration file on the command line, Puppet temporarily uses that configuration file only and does not read the global or user-specific config files at all.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/puppet\_code.html#configuration-precedence-and-puppet-codeThe correct answer is: Individual configuration options directly on the command line

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Question 2: **Correct**

**Module name cannot contain which of the following?**

* A. Lowercase and Uppercase letters
* B. Digits
* C. Hyphens

**(Correct)**

* D. Underscores

#### Explanation

Option C is correct : Hyphens are not allowed to be used in the module namesOption A, B and D are incorrect : Module names obey the same rules as individual namespace segments (like in a class or defined type name). That is, they must begin with a lowercase letter and can include:?     Lowercase letters?     Uppercase letters.?     Digits?     Underscores For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_reserved.html#modulesThe correct answer is: Hyphens

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Question 3: **Incorrect**

**Consider the below**

**exhibit.file { '/etc/ssh/sshd\_config':**

**owner => root,**

**group => root,**

**alias => 'sshdconfig',**

**}**

**File['sshdconfig'] {**

**mode => '0644',**

**}**

**What will be the outcome of it?**

* A. It would compile successfully
* B. An alias 'sshdconfig' would be created
* C. The code would throw an error

**(Correct)**

* D. It would create a file '/etc/ssh/sshd\_config' and its alias as 'sshdconfig'

**(Incorrect)**

#### Explanation

Option C is correct : There’s no way here for the Puppet parser to know that these two stanzas should be affecting the same file. So it throw errorOption A is incorrect : It would not compile and throw an error as belowError: Could not find resource(s) File[sshdconfig] for overriding on agent nodeOption B and D are incorrect : Alias cant be created as there is no relation between the two resourcs which puppet can linkFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types/file.html#fileThe correct answer is: The code would throw an error

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Question 4: **Incorrect**

**Which command can be used to print the resolved puppet-code configuration in code manager?**

* A. puppet code print-config
* B. puppet-code print-config

**(Correct)**

* C. puppet code --print config

**(Incorrect)**

* D. puppet-code --print config

#### Explanation

Option B is correct : Prints out the resolved puppet-code configuration.Option A, C and D are incorrect : Incorrect syntaxFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/puppet\_code.html#puppet-code-actionsThe correct answer is: puppet-code print-config

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Question 5: **Incorrect**

**Which one of the below is a valid command to validate application orchestration code?**

* A. puppet parser validate app\_management
* B. puppet parser validate --app-management

**(Incorrect)**

* C. puppet parser validate --app\_management

**(Correct)**

* D. puppet parser validate app-management

#### Explanation

Option C is correct : To validate Puppet code you intend to use as application orchestration code, you need to add the --app\_management flag to the parser commandOption A is incorrect : Its missing the --Option B is incorrect : The syntax is incorrect. It has a - instead of \_Option D is incorrect : Its missing the -- as well as it has a - instead of \_For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_applications/creating\_application\_definitions.html#validating-application-orchestration-codeThe correct answer is: puppet parser validate --app\_management

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Question 6: **Incorrect**

**Which port is required by Puppetdb to be open and able to accept traffic/requests in monolithic installations?**

* A. 8140
* B. 61613
* C. 8081

**(Correct)**

* D. 8142

**(Incorrect)**

#### Explanation

Option C is correct : PuppetDB accepts traffic/requests on this port.The master and console send traffic to PuppetDB on this port. PuppetDB status checks are sent over this port.Classifier group: PE PuppetDBOption A is incorrect : The master uses this port to accept inbound traffic/requests from agents.?     The console sends requests to the master on this port.?     Certificate requests are passed over this port unless ca\_port is set differently.?     Puppet Server status checks are sent over this port.?     The master uses this port to send status checks to compile masters. (Not required to run PE.)?     Classifier group: PE MasterOption B is incorrect : MCollective uses this port to accept inbound traffic/requests from agents.Option D is incorrect : Orchestrator and the Run Puppet button use this port on the master of masters to accept inbound traffic/responses from agents via the Puppet Execution Protocol agent.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/installing/system\_configuration.html#firewall-configuration-for-monolithic-installations-with-compile-mastersThe correct answer is: 8081

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Question 7: **Incorrect**

**There is an Ubuntu node web01.example.com which is assigned classes using the hiera\_include function and the Puppet master is having the the below hierarchy:hierarchy:**

**- "%{trusted.certname}"**

**- "%{::osfamily}"**

**- common**

**and given Hiera data like the following:**

**# common.yaml**

**---**

**classes:**

**- base**

**- security**

**- mcollective**

**# Debian.yaml**

**---**

**classes:**

**- base::linux**

**- localrepos::apt**

**# web01.example.com.yaml**

**---**

**classes:**

**- apache**

**- apache::passenger**

**Which classes would the ubuntu node web01.example.com get?**

* A. apache and apache::passenger
* B. It would get all the classes

**(Correct)**

* C. base::linux, localrepos::apt, apache and apache::passenger
* D. base::linux and localrepos::apt

**(Incorrect)**

#### Explanation

Option B is correct : The hiera\_include function uses an array merge lookup to retrieve the classes array; this means every node gets every class from its hierarchy.Option A, C and D are incorrect : ‘web01.example.com’ matches all the hierarchies and as it was classified using  hiera\_include, it would get all the classes assignedFor additional information on this subject, please refer the below URL:https://puppet.com/docs/hiera/3.3/puppet.html#assigning-classes-to-nodes-with-hiera-hieraincludeThe correct answer is: It would get all the classes

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Question 8: **Correct**

**In the following example what would be the result?**

**['a','b','c'].each |Integer $index, String $value| { notice("${index} = ${value}") }**

* A. It will return a compilation error
* B. The output would beNotice: Scope(Class[main]): 0 = aNotice: Scope(Class[main]): 1 = bNotice: Scope(Class[main]): 2 = c

**(Correct)**

* C.  The output would beNotice: Scope(Class[main]): aNotice: Scope(Class[main]): bNotice: Scope(Class[main]): c
* D. It will return nothing

#### Explanation

Option B is correct : ‘each’ function functions can accept a lambda with either one or two parameters. The values they pass into a lambda will vary, depending on the number of parameters and the type of data structure you’re iterating overOption A is incorrect : The code would compile as there are no errorsOption C and D are incorrect : Runs a lambda repeatedly using each value in a data structure, then returns the values unchanged.This function takes two mandatory arguments, in this order:1.    An array or hash the function will iterate over.2.    A lambda, which the function calls for each element in the first argument. It can request one or two parameters.Example: Using the each function$data.each |$parameter| { <PUPPET CODE BLOCK> }or each($data) |$parameter| { <PUPPET CODE BLOCK> }When the first argument ($data in the above example) is an array, Puppet passes each value in turn to the lambda, then returns the original values.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_iteration.html#common-lambda-argumentshttps://puppet.com/docs/puppet/5.3/function.html#eachThe correct answer is: The output would beNotice: Scope(Class[main]): 0 = aNotice: Scope(Class[main]): 1 = bNotice: Scope(Class[main]): 2 = c

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Question 9: **Incorrect**

**Consider a custom fact added to check the system load of a system$ ls my\_factssystem\_load.rbYou want to load it via the command line using the cutom directory option. Which is the correct option out of the below?**

* A. facter --customdir=./my\_facts system\_load
* B. facter custom-dir=./my\_facts system\_load

**(Incorrect)**

* C. facter --custom-dir=./my\_facts system\_load

**(Correct)**

* D. facter --customdir=./my\_facts system\_load

#### Explanation

Option C is correct : The --custom-dir options on the command line that specifies a single directory to search for custom facts.Option A is incorrect : It has incorrect syntax missing the ‘-’Option B is incorrect : It has incorrect syntax missing the ‘--’Option D is incorrect : It has incorrect syntax missing the ‘-’For additional information on this subject, please refer the below URL:https://puppet.com/docs/facter/3.7/custom\_facts.html#using-the---custom-dir-command-line-optionThe correct answer is: facter --custom-dir=./my\_facts system\_load

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Question 10: **Incorrect**

**The roles and profiles method separates your code into three levels:[Choose 3]**

* A. Component modules

**(Correct)**

* B. Functions
* C. Profiles

**(Correct)**

* D. Roles

**(Correct)**

#### Explanation

Option A is correct : Normal modules that manage one particular technology, for example puppetlabs/apache.Option C is correct : Wrapper classes that use multiple component modules to configure a layered technology stack.Option D is correct : Wrapper classes that use multiple profiles to build a complete system configuration.Option B is incorrect : Functions are included in the profiles and component modulesFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_nodes/the\_roles\_and\_profiles\_method.html#configuring-roles-and-profilesThe correct answers are: Component modules, Profiles, Roles

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Question 11: **Correct**

**What would be the state of a node if the number of resources that received a corrective change after Puppet identified resources that were out of sync with the applied catalog?**

* A. Changed
* B. Skipped
* C. Correction Applied

**(Correct)**

* D. No-op

#### Explanation

Option C is correct : ‘Correction Applied’ is the state which the node reaches when the number of resources that received a corrective change after Puppet identified resources that were out of sync with the applied catalog.Option A is incorrect : This state states the number of resources that changed.Option B is incorrect : This state states the number of resources that were skipped because they depended on resources that failed.Option D is incorrect : This state states the number of resources that would have been changed if not run in no-op mode.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/inspecting\_infrastructure/infrastructure\_reports.html#working-with-the-reports-tableThe correct answer is: Correction Applied

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Question 12: **Incorrect**

**Which user is used for running Mcollective commands?**

* A. deploy
* B. admin
* C. puppet

**(Incorrect)**

* D. peadmin

**(Correct)**

#### Explanation

Option D is correct : Anyone able to log into the Puppet master server as an admin user with full root sudo privileges can become the peadmin user by running:$ sudo -i -u peadminThis is the default way to log in as the peadmin user. It means that MCollective commands can only be issued by the group of users who can fully control the Puppet master.Option A, B and C are incorrect : By default, these users do not have full control on the system and hence cannot be used for running mcollective commandsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_mcollective/invoking\_mcollective\_actions.html#logging-in-with-sudoThe correct answer is: peadmin

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Question 13: **Incorrect**

**Which of the below operator can convert an array to a comma-separated list of arguments.?**

* A. in
* B. \* (splat)

**(Correct)**

* C. and

**(Incorrect)**

* D. + (concatenation)

#### Explanation

Option B is correct : \*(splat) operator unfolds a single array into comma-separated list of values. This lets you use variables in places where, in previous versions of the language, only literal lists were allowedOption A is incorrect : This operator is non-transitive with regard to data types. It accepts:?     A string, regular expression, or data type as the left operand.?     A string, array, or hash as the right operand.Option C is incorrect : ‘and’ is a Boolean operator. Resolves to true if both operands are true, otherwise resolves to false.Option D is incorrect : Resolves to an array containing the elements in the left operand followed by the elements in the right operand.Both operands should be arrays; if the right operand is a scalar value, it will be converted to a single-element array first. Hash values will be converted to arrays instead of wrapped, so you must wrap them yourself. If the left operand isn’t an array, Puppet will interpret + as arithmetic addition.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_expressions.html#array-operatorsThe correct answer is: \* (splat)

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Question 14: **Incorrect**

**Which of the below is not a component of the Mcollective orchestration internals?**

* A. pe-activemq
* B. pe-mcollective

**(Incorrect)**

* C. rpc

**(Correct)**

* D. mco

#### Explanation

Option C is correct : rpc is the general purpose client, which can invoke actions from any agent plugin.Option A is incorrect : pe-activemq service (which runs on the Puppet master server) routes all messages.Option B is incorrect : pe-mcollective service (which runs on every agent node) listens for authorized commands and invokes actions in response. It relies on the available agent plugins for its set of possible actions.Option D is incorrect : The mco command (available to the peadmin user account on the Puppet master server) can issue authorized commands to any number of nodes.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_mcollective/mcollective\_overview.html#mcollective-orchestration-internalsThe correct answer is: rpc

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Question 15: **Correct**

**How do you stop puppet agent using resource command?**

* A. puppet resource service puppet stopped
* B. puppet resource puppet ensure=stopped
* C. puppet resource service puppet ensure=stopped

**(Correct)**

* D. puppet resource service puppet stop

#### Explanation

Option C is correct : ‘puppet resource service puppet ensure=stopped’ would stop the puppet serviceOption A is incorrect : Missing the ‘ensure=’Option B is incorrect : Missing the ‘service’ commandOption D is incorrect : Missing the ‘ensure=stopped’For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/man/resource.htmlThe correct answer is: puppet resource service puppet ensure=stopped

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Question 16: **Incorrect**

**In Hiera 3.x, which of the following key types are accepted by priority lookup? [Choose 2]**

* A. Qualified keys

**(Correct)**

* B. Low-level lookup keys

**(Incorrect)**

* C. Top-level lookup keys

**(Correct)**

* D. Merge keys

#### Explanation

Option A is correct: Qualified keys, which return just the specified part of a value.Option C is correct: Top-level lookup keys, which return the entire value of the key.Options B and D are incorrect: These are invalid keysFor additional information on this subject, please refer the below URL:https://puppet.com/docs/hiera/3.3/lookup\_types.html#priority-defaultThe correct answers are: Qualified keys, Top-level lookup keys

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Question 17: **Incorrect**

**Which are the two settings that need to be set To tell Puppet Server to use an ENC?**

* A. internal\_nodes
* B. node\_terminus

**(Correct)**

* C. exec

**(Incorrect)**

* D. external\_nodes

**(Correct)**

#### Explanation

Option B and D are correct : To tell Puppet Server to use an ENC, you need to set two settings: node\_terminus has to be set to “exec”, and external\_nodes must have the path to the executable.Option A is incorrect : This is an invalid optionOption C is incorrect : exec is the value that has to be set for node\_terminusFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/nodes\_external.html#connecting-an-encThe correct answers are: node\_terminus, external\_nodes

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Question 18: **Incorrect**

**Consider the below exhibit**

**#**

**user.ppuser { 'demouser':**

**ensure  => 'present',**

**comment   => 'demouser',**

**gid   => '2',**

**home    => '/sbin',**

**password   => '\*',**

**password\_max\_age => '99999',**

**password\_min\_age  => '0',**

**shell   => '/sbin/nologin',**

**}**

**What would be the result of puppet apply user.pp ?**

* A. It will compile successfully but user will not be created as there is no ensure attribute
* B. It will throw a compilation error

**(Incorrect)**

* C. It will create the demouser

**(Correct)**

* D. It will do nothing

#### Explanation

Option C is correct : The user will be successfully createdOption A, B and D are incorrect : The syntax is correct and demouser will be createdFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/types/user.htmlThe correct answer is: It will create the demouser

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Question 19: **Correct**

**You are writing a new class named mongodb::master. Which of the below module file path should contain this class definition?**

* A. mongodb/manifests/master/init.pp
* B. mongodb/manifests/master.pp

**(Correct)**

* C. mongodb/classes/master.pp
* D. mongodb/lib/classes/master.pp

#### Explanation

Option B is correct : All the class files and code reside in the manifests directoryOption A is incorrect : This is incorrect structure as init.pp resides in mondule/manifests directoryOption C is incorrect : This is incorrect structure as there is no ‘classes’ directory in standard module layoutOption D is incorrect : lib directory Contains plug-ins, like custom facts and custom resource typesFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_fundamentals.html#exampleThe correct answer is: mongodb/manifests/master.pp

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Question 20: **Incorrect**

**All of your agent nodes are configured with**

**server = puppet.example.com,**

**Your DNS name is configured such as:**

**# IP address of master 1:puppet.example.com.**

**IN A 192.0.2.50# IP address of master 2:puppet.example.com.**

**IN A 198.51.100.215**

**For this option, What should you configure your masters with before their certificate request is made?**

* A. route\_dns
* B. http\_proxy\_host

**(Incorrect)**

* C. bindaddress
* D. dns\_alt\_names

**(Correct)**

#### Explanation

Option D is correct : configuring dns\_alt\_names will arbitrarily route all requests directed at that hostname to the pool of available masters.Option A, B and C are incorrect: route\_dns, http\_proxy\_host and bindaddress are invalid optionsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppetserver/5.1/scaling\_puppet\_server.html#using-round-robin-dnsThe correct answer is: dns\_alt\_names

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Question 21: **Incorrect**

**You want to create a symlink to the syslog file located in**

**‘/var/log/messages’**

**in a temporary directory**

**‘/var/tmp/log’.**

**From the following exhibits which one would suffice the purpose?[Choose 2]**

* A. file { '/var/tmp/log':  ensure => link,  target => /var/log/messages,}

**(Incorrect)**

* B. file { '/var/tmp/log':  ensure => ‘/var/log/messages’,}

**(Correct)**

* C. file { '/var/tmp/log':  ensure => link,  target => '/var/log/messages',}

**(Correct)**

* D. file { '/var/tmp/log':  ensure => /var/log/messages,}

#### Explanation

Option B is correct : This exhibit will create the symlink to the log file but it does not suite as per the puppet language style guide. Symbolic links must be declared with an ensure value of ensure => link and explicitly specify a value for the target attribute. Doing so more explicitly informs the user that a link is being created.Option C is correct : This is the correct syntax for declaring and creating a symlinkOption A is incorrect : This exhibit will throw a syntax error as the target value is not quotedOption D is incorrect : This exhibit will throw a syntax error as the target value is not quotedFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/style\_guide.html#symbolic-linksThe correct answers are: file { '/var/tmp/log':  ensure => ‘/var/log/messages’,}, file { '/var/tmp/log':  ensure => link,  target => '/var/log/messages',}

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Question 22: **Incorrect**

**You want to create a new module using the generate subcommand.Which two commands will generate the module successfully? (Choose two.)**

* A. puppet module generate web-apache

**(Correct)**

* B. puppet module generate web=apache

**(Incorrect)**

* C. puppet module generate web/apache

**(Correct)**

* D. puppet module generate web\apache

#### Explanation

Option A is correct : This command would generate a module named “web-apache”Option C is correct : This command would generate a module named “web/apache”Option B is incorrect : This command would throw an error as it would not generate directory "web=apache"Option D is incorrect :This would throw an error you must specify a dash-separated username and module name.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/man/module.html#EXAMPLESThe correct answers are: puppet module generate web-apache, puppet module generate web/apache

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Question 23: **Incorrect**

**What capabilities does the Node Classifier service API provide the administrator?[Choose 3]**

* A. Querying the groups that a node matches

**(Correct)**

* B. Querying the classes, parameters, and variables that have been assigned to a node or group

**(Correct)**

* C. Inspecting applications and applications instances in your Puppet environments

**(Incorrect)**

* D. Querying the environment that a node is in

**(Correct)**

#### Explanation

Option A, B and D are correct : The Node classifier API provides the information about the grpups, classes, parameters, variables, environments.Option C is incorrect : This functionality is provided by the Puppet Orchestrator APIFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.2/nc\_index.htmlThe correct answers are: Querying the groups that a node matches, Querying the classes, parameters, and variables that have been assigned to a node or group, Querying the environment that a node is in

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Question 24: **Incorrect**

**From the below statements determine which two aspects differentiate defined types from native types?[Choose two]**

* A. Defined types do not use built in providers

**(Correct)**

* B. Resource declarations of defined types can be duplicated in a catalog

**(Incorrect)**

* C. Defined types cannot access facter data
* D. Native types are written in Ruby, defined types are written in Puppet

**(Correct)**

#### Explanation

Option A is correct : Defined types can use providersOption D is correct : Defined types are written in Puppet DSL, Native types are written in Ruby languageOption B is incorrect : Resource declarations always have to be uniqueOption C is incorrect : Define types can access data generated by FacterFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_defined\_types.htmlThe correct answers are: Defined types do not use built in providers, Native types are written in Ruby, defined types are written in Puppet

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Question 25: **Incorrect**

**From the below resource declaration examples which resource allocation is  following the best practices of puppet language style guide?**

* A. file { '/tmp/dir':  ensure => directory,}file { '/tmp/dir/a':  content => 'a',}file { '/tmp/dir2':  ensure => directory,}file { '/tmp/dir2/b':  content => 'b',}

**(Correct)**

* B. file { '/tmp/dir':  ensure => directory,}file { '/tmp/dir2':  ensure => directory,}file { '/tmp/dir/a':  content => 'a',}file { '/tmp/dir2/b':  content => 'b',}
* C. file { '/tmp/dir/a':  content => 'a',}file { '/tmp/dir2/b':  content => 'b',}file { '/tmp/dir':ensure => directory,   }    file { '/tmp/dir2':   ensure => directory,    }

**(Incorrect)**

* D.  file { '/tmp/dir/a':  content => 'a',}file { '/tmp/dir':  ensure => directory,}file { '/tmp/dir2/b':  content => 'b',} file { '/tmp/dir2': ensure => directory, }

#### Explanation

Option A is correct : Within a manifest, resources should be grouped by logical relationship to each other, rather than by resource type. In this option the content in /tmp/dir is grouped right after the dir resource.Option B is incorrect : In this option both the directories are grouped together and the the content in it in another following group. Doesn’t go well with the style guideOption C is incorrect : In this option the content inside the directory is declared first followed by the dir resource declarationOption D is incorrect :  In this option the content is declared first and then the directory itself. Ideally, first the directory resource should be declared followed by the cotnent inside itFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/style\_guide.html#resource-arrangementThe correct answer is: file { '/tmp/dir':  ensure => directory,}file { '/tmp/dir/a':  content => 'a',}file { '/tmp/dir2':  ensure => directory,}file { '/tmp/dir2/b':  content => 'b',}

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Question 26: **Incorrect**

**In a software company, employee A has written a module to manage the installation and configuration of a particular software. Employee B has written another module to deploy the code. Employee C has been asked to write a class which should include deploy all the modules along with its dependancies provide custom data and should be reusable. What should Employee C use in this scenario to achieve the above?**

* A. Role class

**(Incorrect)**

* B. Another Module which includes dependencies of previous modules
* C. Write a Profile class

**(Correct)**

* D. Rewrite existing modules with new classes

#### Explanation

Option C is correct : A profile class would be best suited in this scenario which would suffice to the requirements and would be reusableOption A is incorrect : A role is used to include profilesOption B is incorrect : Writing another module would not be the best soultion as it would increase the complexity of the codeOption D is incorrect : Rewriting the modules would increase time and effort whereas profile class can be written easily with the new requirements and can be reusedFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_nodes/the\_roles\_and\_profiles\_method.html#the\_roles\_and\_profiles\_methodThe correct answer is: Write a Profile class

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Question 27: **Correct**

**You have written logstash and kibana modules which depends on an existing elasticsearch module to function properly.How do you declare elasticsearch dependency?**

* A. Add include elasticsearch to your init.pp file.

**(Correct)**

* B. Add import elasticsearch anywhere in your module.
* C. Add use elasticsearch to your init.pp file.
* D. Add module 'elasticsearch' to your requirements.pp file

#### Explanation

Option A is correct : This is the optimal way of including a module that requires a module dependancy. Also dependancies can be included in the metadata.json fileOption B is incorrect : import is not a valid command to include a module and it cannot be declared anywhere.Option C is incorrect : use command is not a valid command to include a moduleOption D is incorrect : Puppet will not recongnize a dependancy in any random puppet fileFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_metadata.htmlThe correct answer is: Add include elasticsearch to your init.pp file.

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Question 28: **Incorrect**

**Which of the below endpoints are provided by the Code manager API? [Select 3]**

* A. webhook endpoint

**(Correct)**

* B. rbac endpoint

**(Incorrect)**

* C. deploys endpoint

**(Correct)**

* D. status endpoint

**(Correct)**

#### Explanation

Options A, C, and D are correct: Code manager API helps in -?     Creating a custom URL that is used to trigger Code Manager?     Queueing Puppet code deploys?     Checking Code Manager and file sync statusOption B is incorrect: rbac is not provided by code managerFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.2/api\_index.htmlThe correct answers are: webhook endpoint, deploys endpoint, status endpoint

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Question 29: **Incorrect**

**Which of the following statements are incorrect about a Profile class?**

* A. You can safely include any profile multiple times
* B. You cannot hardcode data in a profile

**(Correct)**

* C. Profiles can include other profiles

**(Incorrect)**

* D. Profiles own all the class parameters for their component classes

#### Explanation

Option B is correct : If you are going to use a paramter which will always use the same value it can be hardcoded in a profileOption A, B and C are incorrect: These statements are trueFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_nodes/the\_roles\_and\_profiles\_method.html#rules-for-profile-classesThe correct answer is: You cannot hardcode data in a profile

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Question 30: **Correct**

**Below are some parameter declarations. Which parameter declaration is best suited as per the style guide?**

* A. class ntp (  $options   = “iburst”  $servers  $multicast = false) {}
* B. class ntp (  $options   = "iburst",  $servers,  $multicast = false,) {}
* C. class ntp (   $servers,  $multicast = false,  $options   = "iburst",) {}

**(Correct)**

* D. class ntp (   $servers  $multicast = false  $options   = iburst) {}

#### Explanation

Option C is correct : In parameterized class and defined type declarations, required parameters must be listed before optional parameters (that is, parameters with defaults). Required parameters are parameters which are not set to anything, including undef. For example, parameters such as passwords or IP addresses might not have reasonable default values.Note that treating a parameter like a namevar and defaulting it to $title or $name does not make it a required parameter. It should still be listed following the order recommended here.Option A is incorrect : This code will throw a syntax error as ‘,’ is missing in the paramtersOption B is incorrect : In this example the required paramter ‘$options’ is listed before the optional parameter, would not throw any error but does not follow the style guideOption D is incorrect : This code will throw a syntax error as ‘,’ is missing in the paramters For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/style\_guide.html#display-order-of-parametersThe correct answer is: class ntp (   $servers,  $multicast = false,  $options   = "iburst",) {}

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Question 31: **Incorrect**

**Which of the below parameter definition format is correct within Hiera data source?**

* A. class\_name.parameter: "value"
* B. $class\_name::parameter = "value"

**(Incorrect)**

* C. class\_name::parameter: "value"

**(Correct)**

* D. class\_name['parameter'] = "value”

#### Explanation

Option C is correct : This follows the correct syntax and formatOption A, B and D are incorrect : These options are not adhering to the correct syntaxFor additional information on this subject, please refer the below URL:https://puppet.com/docs/hiera/3.3/lookup\_types.htmlThe correct answer is: class\_name::parameter: "value"

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Question 32: **Correct**

**Consider the below virtual resource. @user {'deploy':uid     => 2008,comment => 'Deployment User',group   => 'www-data',groups  => ["enterprise"],tag     => [deploy, web], }Which command you would use to realize it?**

* A. realize user[@deploy]
* B. realize @user['deploy']
* C. realize user['deploy']

**(Correct)**

* D. realize(@user['deploy'])

#### Explanation

Option C is correct: This is the correct syntax for realizing a virtual resourceOptions A, B and D are incorrect: Incorrect syntaxFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_virtual.html#declaring-a-virtual-resourceThe correct answer is: realize user['deploy']

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Question 33: **Incorrect**

**Which of the below statement about a CA server is incorrect?**

* A. ca\_ttl is a parameter which can be set for the expiry of newly signed certificates
* B. There can be multiple CA at a Puppet deployment

**(Correct)**

* C. The ca setting is not valid for Puppet Server

**(Incorrect)**

* D. You can autosign the certificates

#### Explanation

Option B is correct : There should only be one CA at a Puppet deploymentOption A, C and D are correct : These are true statementsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_important\_settings.html#ca-settingsThe correct answer is: There can be multiple CA at a Puppet deployment

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Question 34: **Incorrect**

**You have a colleague to which you need to provide permissions to Create and modify node groups and other objects but not admin access. Which role you would assign to achieve this?**

* A. Code Deployers
* B. Viewers

**(Incorrect)**

* C. Operators

**(Correct)**

* D. Classifiers

#### Explanation

Option C is correct : Operators role will assign permissions to Create and modify node groups and other objects.Option A is incorrect : Code Deployers role Synchronizes code from version control system to Puppet Servers.Option B is incorrect : Viewers role has permissions to View, but not modify, all objects in the console.Option D is incorrect : Classifiers is an invalid roleFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/rbac/rbac\_user\_roles\_intro.htmlThe correct answer is: Operators

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Question 35: **Incorrect**

**Which of the following functions will load the contents of an EPP template? [Choose 2]**

* A. epp

**(Correct)**

* B. load\_epp

**(Incorrect)**

* C. inline\_epp

**(Correct)**

* D. load\_inline\_epp

#### Explanation

Option A is correct: EPP templates can declare parameters, and you can provide values for them by passing a parameter hash to the epp functionOption C is correct: If you have a string value that contains template content, you can evaluate it with the inline\_epp functionOptions B and D are incorrect: These are invalid functionsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_template.html#with-a-template-file-template-and-eppThe correct answers are: epp, inline\_epp

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Question 36: **Incorrect**

**You want to install a module from a repository other than forge. What command would you use to achieve the same?**

* A. puppet module install  <repo url> module-name
* B. puppet module install module-name

**(Incorrect)**

* C. puppet module install --module\_repository <repo url> module-name

**(Correct)**

* D. puppet module install --module\_repository module-name

#### Explanation

Option C is correct : The puppet module command can install modules from other repositories that mimic the Forge’s interface. You can change the module repository for one installation, or you can change your default repository.?     To change the default module repository, edit the module\_repository setting in puppet.conf to the base URL of the repository you want to use.?     To change the repository for a single module installation only, specify the base URL of the repository when you install the module. Use the --module\_repository option to set this.Option A is incorrect : This option is missing the --module\_repository parameterOption B is incorrect : This will install the module from the default module repository which is set in puppet.confOption D is incorrect : This option is missing the repo urlFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_installing.html#installing-from-another-module-repositoryThe correct answer is: puppet module install --module\_repository <repo url> module-name

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Question 37: **Correct**

**You have an apache module for which you need to fetch the ssl configuration file /etc/apache2/httpd-ssl.conf, which of the following exhibits would serve the purpose?**

* A. file {'/etc/apache2/httpd-ssl.conf':  ensure => file,  source => 'puppet://modules/apache/extra/ssl',}
* B. file {'/etc/apache2/httpd-ssl.conf':  ensure => file,  source => 'puppet:///modules/apache/extra/ssl',}

**(Correct)**

* C. file {'/etc/apache2/httpd-ssl.conf':  source => 'puppet://modules/apache/extra/ssl',}
* D. file {'/etc/apache2/httpd-ssl.conf':  source => 'puppet:///modules/apache/extra/ssl',}

#### Explanation

Option B is correct :Nodes can download any files in this directory from Puppet’s built-in file server.?     Use the source attribute to download file contents from the server.?     Use puppet:/// URIs to specify which file to fetch.?     Files in this directory are served at puppet:///modules/modulename/ filenameOption A is incorrect : The source has ‘//’ instead of ‘///’Option C is incorrect : The ensure attribute is missing and has ‘//’ instead of ‘///’Option D is incorrect : The ensure attribute is missingFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/cheatsheet\_module.html#filesThe correct answer is: file {'/etc/apache2/httpd-ssl.conf':  ensure => file,  source => 'puppet:///modules/apache/extra/ssl',}

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Question 38: **Correct**

**What is the incorrect statement regarding collection of report data by the report processors?**

* A. Metadata about the node, its environment and Puppet version, and the catalog used in the run
* B. The status of every resource
* C. Log messages are not collected by report processors

**(Correct)**

* D. Metrics about the run, such as its duration and how many resources were in a given state

#### Explanation

Option C is correct : Report processors collects log messages tooOption A, B and D are incorrect : These are true statementsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/reporting\_about.html#what-data-is-in-a-reportThe correct answer is: Log messages are not collected by report processors

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Question 39: **Incorrect**

**How can you access Puppet variables from contents of an ERB template?[Choose 2]**

* A. @variable

**(Correct)**

* B. scope['variable']

**(Correct)**

* C. $variable

**(Incorrect)**

* D. <% $variable %>

#### Explanation

Option A is correct : All variables in the current scope (including global variables) are passed to templates as Ruby instance variables, which begin with “at” signs (@). If you can access a variable by its short name in the surrounding manifest, you can access it in the template by replacing its $sign with an @. So $os becomes @os, $trusted becomes @trusted, etc.Option B is correct :Puppet also passes templates an object called scope, which can access all variables (including out-of-scope ones) with a hash-style access expression.Option C and D are incorrect : These are incorrect syntaxFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_template\_erb.html#accessing-puppet-variablesThe correct answers are: @variable, scope['variable']

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Question 40: **Correct**

**In the below exhibit, which class will be executed on the node with the certname web.example.com? node "web.example.com" {include apache}node "web.example" {include nginx} node "web" {include varnish} default {include base}**

* A. nginx
* B. apache

**(Correct)**

* C. base
* D. varnish

#### Explanation

Option B is correct :If the node name resembles a dot-separated fully qualified domain name, Puppet makes multiple attempts to match a node definition, removing the right-most part of the name each time. Puppet would first try web.example.com and gets a matchOption A, C and D are incorrect : In the order of preference, Puppet would first try web.example.com, then web.example, then web.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/nodes\_external.html#how-merging-worksThe correct answer is: apache

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Question 41: **Incorrect**

**By default, what is the default run interval when a Puppet agent checks in with the Puppet master ?**

* A. 30 minutes

**(Correct)**

* B. 60 minutes
* C. 10 minutes

**(Incorrect)**

* D. 120 minutes

#### Explanation

Option C is correct : The runinterval is by default 30 min setOption B, C and D are incorrect: The runinterval parameter can be tweaked to set a custom time for seconds, minutes, hours etcFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/configuration.html#runintervalThe correct answer is: 30 minutes

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Question 42: **Incorrect**

**What ports are reqiured to be open when you are installing Puppet enterprise using the web-based installer?**

* A. 80
* B. 3000

**(Correct)**

* C. 8140

**(Incorrect)**

* D. 8081

#### Explanation

Option B is correct : Port 3000: If you are installing PE using the web-based installer, ensure port 3000 is open. You can close this port when the installation is complete.Option A is incorrect : Port 80 is not used by PuppetOption C is incorrect : Port 8140 is used by Puppet master to accept inbound traffic/requests from Puppet agents.Option D is incorrect : PuppetDB uses port 8081For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.2/sys\_req\_sysconfig.html#additional-port-usage-for-all-installation-typesThe correct answer is: 3000

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Question 43: **Incorrect**

**Which facter commands can be used to check the operating system of a unix system?**

* A. facter ::operatingsystem
* B. facter operatingsystem

**(Correct)**

* C. facter[operatingsystem]

**(Incorrect)**

* D. facter -p operatingsystem

**(Correct)**

#### Explanation

Option B and D are correct : Loads Puppet-specific factsOption A and C are incorrect : Incorrect syntaxFor additional information on this subject, please refer the below URL:https://puppet.com/docs/facter/3.9/core\_facts.htmlThe correct answers are: facter operatingsystem, facter -p operatingsystem

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Question 44: **Incorrect**

**In the following exhibit, what will be the puppet parser validate output?**

**file { 'test':**

**ensure => file,**

**path => '/var/tmp/test',**

**}**

**file { 'test':**

**ensure => file,**

**path => '/var/tmp/tests',**

**}**

* A. Error due to duplicate resource name test

**(Correct)**

* B. Syntax error
* C. Puppet parser validate will fail

**(Incorrect)**

* D. Puppet parser validate will be a success

#### Explanation

Option A is correct: Puppet parser will throw the error 'Duplicate declaration' as the resource name is declared twice.Option B is incorrect: The syntax is correctOption C is incorrect: It will pass as it only checks for syntax errorsOption D is incorrect: This is a duplicate declarationFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/man/parser.htmlThe correct answer is: Error due to duplicate resource name test

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Question 45: **Incorrect**

**Where or how can you find the SSL directory? [Choose 2]**

* A. /etc/puppet/puppetlabs/ssl
* B.  /var/lib/puppet/ssl

**(Incorrect)**

* C. puppet config print ssldir

**(Correct)**

* D.  /etc/puppetlabs/puppet/ssl

**(Correct)**

#### Explanation

Option C is correct: This command would print the SSL directoryOption D is correct: This directory contains all the SSL config files and certificatesOption A is incorrect: This is incorrect directory structureOption B is incorrect: This is incorrect directory structureFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_print.htmlhttps://puppet.com/docs/puppet/5.3/dirs\_ssldir.htmlThe correct answers are: puppet config print ssldir,  /etc/puppetlabs/puppet/ssl

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Question 1: **Incorrect**

**Which of the following is not a conditional statement in Puppet's DSL?**

* A. selector statement
* B. if statement
* C. unless statement

**(Incorrect)**

* D. switch statement

**(Correct)**

#### Explanation

Option D is correct : There is no switch statement in puppet DSL.Puppet supports “if” and “unless” statements, case statements, and selectors.Option A is incorrect : selector is a conditional statementOption B is incorrect : If is a conditional statementOption C is incorrect : unless is a conditional statementFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_conditional.html#summaryThe correct answer is: switch statement

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Question 2: **Incorrect**

**From the below resource declaration examples which is  following the best practices of puppet language style guide?**

* A. file{'/tmp/foo':
* B. file     { '/tmp/foo':
* C. file { '/tmp/foo':

**(Correct)**

* D. file { '/tmp/foo' :

**(Incorrect)**

#### Explanation

Option C is correct : Follows the best practice of using one space between the resource type and opening brace, one space between the opening brace and the title, and no spaces between the title and colon Option A is incorrect : Does not contain spaces between the resource type and opening brace and between the opening brace and the titleOption B is incorrect : This option contains too many spacesOption D is incorrect : It contains a space between title and colonFor additional information on this subject, please refer the below URL:https://docs.puppet.com/puppet/latest/style\_guide.html#spacing-indentation-and-whitespaceThe correct answer is: file { '/tmp/foo':

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Question 3: **Incorrect**

**When configuring the user for Code Manager what group does the user need to be a member of?**

* A. Code Deployers role

**(Correct)**

* B. Operators role
* C. Code Manager role

**(Incorrect)**

* D. Administrator role

#### Explanation

Option A is correct : Code Deployers role is provided to the user being meant to deploy the code. It Synchronizes code from version control system to Puppet Servers.Option B is incorrect : Operators role creates and modifies node groups and other objects.Option C is incorrect : There is no such role Code manager in puppet RBACOption D is incorrect : Administrators role manages users and their permissions, and create and modify node groups and other objects. For additional information on this subject, please refer the below URLhttps://docs.puppet.com/pe/latest/code\_mgr\_config.html#assign-a-user-to-the-deployment-roleThe correct answer is: Code Deployers role

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Question 4: **Incorrect**

**Which of the following are built in report processors?Choose the 2 correct answers:**

* A. tagmail
* B. store

**(Correct)**

* C. rbac

**(Incorrect)**

* D. http

**(Correct)**

#### Explanation

Option B is correct : ‘store’ stores the yaml report on disk. Each host sends its report as a YAML dump and this just stores the file on disk, in the reportdir directory.Option D is correct : ‘http’ sends reports via HTTP or HTTPS.Option A is incorrect : tagmail is not an inbuilt report processor. It is available on puppet forgeOption C is incorrect : rbac is not a report processor. It is used to manage user permissionsFor additional information on this subject, please refer the below URL:https://docs.puppet.com/puppet/latest/report.html#report-referenceThe correct answers are: store, http

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Question 5: **Incorrect**

**Certain resource types can have automatic relationships with other resources. Select these automatic relationships. Choose the 2 correct answers:**

* A. autorefresh
* B. autorequire

**(Correct)**

* C. autobefore

**(Correct)**

* D. autoupdate

**(Incorrect)**

#### Explanation

Option B is correct : In the example code below, the purpose of this hook is to make sure that if any required resources are being managed, they get applied before the requiring resource. autorequire(:user) do      self[:user]  endOption C is correct : autobefore - If Puppet is managing any child file paths of a mount point, the mount resource will autobefore them. Option A is incorrect : autorefresh is not a kind of custom Automatic Relationships typesOption D is incorrect : autoupdate is not a kind of custom Automatic Relationships types For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_relationships.html#auto-relationshipsThe correct answers are: autorequire, autobefore

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Question 6: **Incorrect**

**Which of the following is used for expression-printing in ERB template syntax?Choose the correct answer:**

* A. <% = @@value %>
* B. <% = @value %>

**(Correct)**

* C. <% = &value %>

**(Incorrect)**

* D. <% = $value %>

#### Explanation

Option B is correct : An expression-printing tag inserts values into the output. It starts with an opening tag delimiter and equals sign (<%=) and ends with a closing tag delimiter (%>)For example, to insert the value of the $fqdn and $hostname facts in an Apache config file, you could do something like:ServerName <%= @fqdn %>ServerAlias <%= @hostname %>Option A is incorrect : The syntax is incorrect containing ‘@@’Option C is incorrect : Referencing the vaue with ‘&’ is incorrectOption D is incorrect : All variables in the current scope (including global variables) are passed to templates as Ruby instance variables, which begin with “at” signs (@) and not ‘$’For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_template\_epp.html#expression-printing-tagsThe correct answer is: <% = @value %>

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Question 7: **Incorrect**

**Code that is outside any class definition, type definition, or node definition exists at -**

* A. Node scope
* B. Top scope

**(Correct)**

* C. Local scope
* D. Dynamic  scope

**(Incorrect)**

#### Explanation

Option B is correct : Variables and defaults declared at top scope are available everywhere.Option A is incorrect : Code inside a node definition exists at node scope.Option C is incorrect : Code inside a class definition, defined type, or lambda exists in a local scope.Option D is incorrect : In dynamic scope, parent scopes are assigned by both inheritance and declaration, with preference being given to inheritance.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_scope.html#top-scopeThe correct answer is: Top scope

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Question 8: **Incorrect**

**Which sub command  allows you to check for missing environments using r10k ?Choose the correct answer:**

* A. display --fetch

**(Correct)**

* B. environment
* C. Display --detail

**(Incorrect)**

* D. environment -p

#### Explanation

Option A is correct : Update the environment sources. Allows you to check for missing environments.Option B is incorrect : Deploys environments and their specified modules.Option C is incorrect : Displays detailed information.Option D is incorrect : Updates modules specified in the environment’s Puppetfile.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/code\_management/r10k\_commands.html#r10k-deploy-subcommandsThe correct answer is: display --fetch

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Question 9: **Incorrect**

**Which are the reserved words out of the below in Puppet?Choose three correct options:**

* A. environment

**(Correct)**

* B. and

**(Correct)**

* C. consumes

**(Correct)**

* D. variable

#### Explanation

Option A is correct : ‘environment’ is reserved for symbolic namespace useOption B is correct : ‘and’ is an expression operatorOption C is correct : ‘consumes’ is s language keywordOption D is incorrect : ‘variable’ is not a reserved keywordFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_reserved.html#reserved-wordsThe correct answers are: environment, and, consumes

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Question 10: **Correct**

**Resources can have multiple namevars.**

* A. True

**(Correct)**

* B. False

#### Explanation

Option A is correct : This statement is True because, sometimes, a single value isn’t sufficient to identify a resource on the target system. For example, consider a system that has multiple package providers available: the yum provider has a package called ‘mysql’, and the gem provider also has a package called ‘mysql’ that installs completely different (and non-conflicting) software. In this case, the name of both packages would be mysql.Thus, some resource types have more than one namevar, and Puppet combines their values to determine whether a resource is uniquely identified. If two resources have the same values for all of their namevars, Puppet will raise an error.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_resources.html#multiple-namevarsThe correct answer is: True

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Question 11: **Incorrect**

**Which statements are correct about the profile code below?**

**class profile::jenkins::master (**

**String $jenkins\_port = '9091',**

**String $java\_dist    = 'jdk',**

**String $java\_version = 'latest',**

**) { class { 'jenkins':**

**configure\_firewall => true,**

**install\_java           => false,**

**port                       => $jenkins\_port,**

**config\_hash          => {**

**'HTTP\_PORT'       => {**

**'value' => $jenkins\_port**

**}, 'JENKINS\_PORT' => {**

**'value' => $jenkins\_port**

**},**

**},**

**}class {**

**'java':  distribution => $java\_dist,**

**version      => $java\_version,**

**before       => Class['jenkins'],**

**}**

**}**

* A. The profile declaration has incorrect syntax
* B. We cannot hardcode values in a profile

**(Incorrect)**

* C. Java will be installed before Jenkins

**(Correct)**

* D. We can also use lookup function to request data

**(Correct)**

#### Explanation

Option C is correct : This option is correct as ‘before => Class['jenkins']’ this would ensure Java is installed before JenkinsOption D is correct : We  also could have omitted the parameters and used the lookup function:class profile::jenkins { $jenkins\_port = lookup('profile::jenkins::jenkins\_port', {value\_type => String, default\_value => '9091'})$java\_dist    = lookup('profile::jenkins::java\_dist',    {value\_type => String, default\_value => 'jdk'})$java\_version = lookup('profile::jenkins::java\_version', {value\_type => String, default\_value => 'latest'})  # ...Option A is incorrect : The syntax is correct and follows all the rules of creating a profile classOption B is incorrect : We can hardcode valuesFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_nodes/roles\_and\_profiles\_example.html#roles\_and\_profiles\_exampleThe correct answers are: Java will be installed before Jenkins, We can also use lookup function to request data

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Question 12: **Correct**

**You have a website configured through puppet and the DNS hostname is  mysite.example.com. We have declared this hostname as a node definitions in site.pp; What will match first out of the below options?**

* A. /^mysite/
* B. mysite
* C. mysite.example.com

**(Correct)**

* D. mysite.example

#### Explanation

Option C is correct : If there is a node definition with the node’s exact name, Puppet will use it.Option A, B and D are incorrect : For the node mysite.example.com, Puppet would try the following, in order:1.    mysite.example.com - The exact hostname. A regex that matches mysite.example.com2.    mysite.example -  A regex that matches mysite.example3.    mysite - A regex that matches mysite4.    default For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_node\_definitions.html#matchingThe correct answer is: mysite.example.com

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Question 13: **Incorrect**

**Out of the below Array examples, which example is following the best practices?**

* A. service { 'foo':  require => [ File['foo\_config'], File['foo\_sysconfig'], ],}
* B. service { 'foo':  require => [    File['foo\_config'],    File['foo\_sysconfig'],  ],}

**(Correct)**

* C. service { 'foo':  require => [              File['foo\_config'],              File['foo\_sysconfig'],  ],}
* D. service { 'foo':  require => [ File['foo\_config'],    File['foo\_sysconfig'],  ],}

**(Incorrect)**

#### Explanation

Option B is correct : This snippet is following the best practice of array with multiple elements on multiple lines Option A is incorrect : This snippet is a bad example as array with multiple elements on same lineOption C is incorrect : This snippet is a bad example as array with indention of elements past two spacesOption D is incorrect : This snippet is a bad example as array with multiple elements on different lines, but syntax and element share a lineFor additional information on this subject, please refer the below URL:https://docs.puppet.com/puppet/latest/style\_guide.html#arrays-and-hashesThe correct answer is: service { 'foo':  require => [    File['foo\_config'],    File['foo\_sysconfig'],  ],}

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Question 14: **Incorrect**

**We have a apache profile class which has some parameters set  for the apache module and we have hiera data from common.yaml being referenced. Find out flaws in this example profile/manifest/apache.pp**

**class profiles::apache(**

**String apache\_vhost\_name,**

**String apache\_vhost\_docroot,**

**Boolean apache\_default\_vhost = true,**

**String apache\_vhost\_port = 8080,**

**) {class { 'apache':**

**default\_vhost => $apache\_default\_vhost,**

**}**

**apache::vhost { $apache\_vhost\_name:**

**port => $apache\_vhost\_port,**

**docroot => $apache\_vhost\_docroot,**

**}**

**}**

**common.yaml**

**---**

**profiles::apache::apache\_vhost\_name: "mysite.example.com"**

**profiles::apache::apache\_vhost\_docroot: "/var/www/html"**

**profiles::apache::apache\_default\_vhost: false**

**profiles::apache::apache\_vhost\_port: 80**

**Choose the correct statement from below:**

* A. The profile class has incorrect syntax

**(Correct)**

* B. The parameter values in the class will be overrided by Hiera value in common.yaml

**(Correct)**

* C. The class parameters will pick all values from common.yaml

**(Incorrect)**

* D. The common.yaml syntax in incorrect

#### Explanation

Option A is correct : The variables in the profile class definiton are missing preceding ‘$’Option B is correct : Puppet looks for the parameter value in hiera, but picks up the value which is explicitly set. Here, apache\_default\_vhost and apache\_vhost\_port are explicitly set Option C is incorrect : Puppet uses any parameters that were explicitly set. It automatically looks up parameters in Hiera, using <CLASS NAME>::<PARAMETER NAME> as the lookup keyOption D is incorrect : The yaml syntax is correct For additional information on this subject, please refer the below URL:https://docs.puppet.com/hiera/3.3/puppet.html?#automatic-parameter-lookupThe correct answers are: The profile class has incorrect syntax, The parameter values in the class will be overrided by Hiera value in common.yaml

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Question 15: **Correct**

**Assuming the trusted certname is mywebsite.example.com, the environment is production and hieradata is the directory of your Hiera data , what would be the full path to the hiera data file for trusted certname?**

**---**

**:backends:**

**- yaml**

**:yaml:**

**:datadir: "/etc/puppetlabs/code/environments/%{environment}/hieradata"**

**:hierarchy:**

**- "nodes/%{::trusted.certname}"**

**- common**

* A. /etc/puppetlabs/code/environments/production/hieradata/mywebsite.example.com.yaml
* B. /etc/puppetlabs/code/environments/production/hieradata/nodes/mywebsite.example.com.yaml

**(Correct)**

* C. /opt/puppetlabs/code/environments/production/hieradata/nodes/mywebsite.example.com.yaml
* D. /etc/puppetlabs/code/environments/production/hieradata/common.yaml

#### Explanation

Option B is correct : It matches the regex in the datadirOption A is incorrect : This path is missing the nodes directoryOption C is incorrect : This path is in /opt location which is incorrectOption D is incorrect : common.yaml is incorrect as ther datadir is specified to contain the certname and node pathFor additional information on this subject, please refer the below URL:https://docs.puppet.com/hiera/3.3/configuring.html#formatThe correct answer is: /etc/puppetlabs/code/environments/production/hieradata/nodes/mywebsite.example.com.yaml

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Question 16: **Incorrect**

**Which of the statements are incorrect about metadata.json?**

* A. The ‘requirements’ key specifies external requirements for the module
* B. The Puppet Forge requires metadata.json

**(Incorrect)**

* C. A metadata.json file uses ruby syntax

**(Correct)**

* D. The dependencies key is a required parameter in metadata.json

#### Explanation

Option C is correct : A metadata.json file uses standard JSON syntax, and contains a single JSON objectOption A is incorrect : The requirements key specifies external requirements for the module, particularly the Puppet version required. Although you can express any requirement here, the Puppet Forge module pages and search function support only the “puppet” requirement for Puppet version.Option B is incorrect :  metadata.json is required when using puppet forge and uses it to create the module’s info page and to provide dependency and other information to users installing the module.Option D is incorrect : The dependencies key accepts an array of hashes. This key is required, but if your module has no dependencies, you can pass an empty array. For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_metadata.htmlThe correct answer is: A metadata.json file uses ruby syntax

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Question 17: **Correct**

**To do External SSL Termination, which mandatory HTTP headers have to be set?**

* A. X-Content-Security-Policy
* B. X-Client-Verify

**(Correct)**

* C. X-Client-DN

**(Correct)**

* D. X-Client-Cert

#### Explanation

Option B is correct : This header is Mandatory. Must be either SUCCESS if the certificate was validated, or something else if not.Option C is correct : This header is Mandatory. Must be the Subject DN of the agent’s certificate, if a certificate was presented. Puppet Server uses this to authorize requests.Option A is incorrect : HTTP response header helps you reduce XSS risks on modern browsers by declaring what dynamic resources are allowed to load via a HTTP Header.Option D is incorrect : This header is Optional. Should contain the client’s PEM-formatted (Base-64) certificate (if a certificate was presented) in a single URI-encoded string. Note that URL encoding is not sufficient; all space characters must be encoded as %20 and not + characters. For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppetserver/5.1/external\_ssl\_termination.htmlThe correct answers are: X-Client-Verify, X-Client-DN

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Question 18: **Incorrect**

**In your /etc/hosts file, you need to add a comment. What would you need to do remove the comment but keep it managed by Puppet using the host resource type. ? 10.1.1.1 mysite.example.com # This is a comment. Choose the correct answer:**

* A. Host resource type does not manage comments
* B. Set attribute comment => blank

**(Incorrect)**

* C. Set attribute comment => ' '

**(Correct)**

* D. Remove the comment attribute completely.

#### Explanation

Option C is correct : Setting the comment attribute to ‘ ‘ will set a blank commentOption A is incorrect : Host resource manages comments through comment attributeOption B is incorrect : ‘blank’ value is not a valid value for setting up commentsOption D is incorrect : Removing the comment attribute completely would disable Puppet from managing comments.For additional information on this subject, please refer the below URL: https://docs.puppet.com/puppet/latest/types/host.html#host-attributesThe correct answer is: Set attribute comment => ' '

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Question 19: **Incorrect**

**You want to add a custom fact to use in your modules. Which are the valid methods to achieve this?Choose 3 correct answers.**

* A. $LOAD\\_PATH, or the Ruby library load path

**(Correct)**

* B. The --custom-dir command line option.

**(Correct)**

* C. The environment variable ‘FACTERLIB’

**(Correct)**

* D. External facts  can be mentioned in common.yaml

#### Explanation

Option A is correct : Facter searches all directories in the Ruby $LOAD\_PATH variable for subdirectories named ‘facter’, and loads all Ruby files in those directories.Option B is correct : Facter can take multiple --custom-dir options on the command line that specifies a single directory to search for custom facts. Facter attempts to load all Ruby files in the specified directories.Option C is correct : Facter also checks the environment variable FACTERLIB for a delimited (semicolon for Windows and colon for all other platforms) set of directories, and tries to load all Ruby files in those directories.Option D is incorrect : Using common.yaml for external facts is not recommendedFor additional information on this subject, please refer the below URL:https://puppet.com/docs/facter/3.7/custom\_facts.html#loading-custom-factsThe correct answers are: $LOAD\\_PATH, or the Ruby library load path, The --custom-dir command line option., The environment variable ‘FACTERLIB’

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Question 20: **Incorrect**

**You want to install the logstash module from the elasticsearch user on the Puppet Forge. Which commands would you use to accomplish this task? (Choose two.)**

* A. puppet module install logstash --version 0.6.6
* B. Add this declaration to your Puppetfile: mod 'elasticsearch-logstash', '0.6.6'

**(Correct)**

* C. Use the command puppet module generate elasticsearch-logstash

**(Incorrect)**

* D. puppet module install elasticsearch-logstash --version 0.6.6

**(Correct)**

#### Explanation

Option B is correct : This is an alternate method by using the Puppetfile to control the install of the module listed on puppet.forge.comOption D is correct : To install a module from the Puppet Forge, use the puppet module install command with the full name of the module you want.Option A is incorrect : This command is missing the the user ‘elasticsearch’Option C is incorrect : This command will generate the module from scratch. It will not download from forgeFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/modules\_installing.html#install-modules-from-the-puppet-forgeThe correct answers are: Add this declaration to your Puppetfile: mod 'elasticsearch-logstash', '0.6.6', puppet module install elasticsearch-logstash --version 0.6.6

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Question 21: **Correct**

**Using embedded puppet template, which syntax out of the below will be used for inserting a value of a single expression?**

* A. <% EXPRESSION %>
* B. <%= EXPRESSION %>

**(Correct)**

* C. <% EXPRESSION -%>
* D. <% EXPRESSION =%>

#### Explanation

Option B is correct : This command Inserts the value of a single expression.Option A is incorrect : This command executes any expressions, but does not insert a value.Option C is incorrect : This command executes any expressions and trims any trailing spaces and up to one following line break.Option D is incorrect : This is an invalid expressionFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_template\_epp.html#tagsThe correct answer is: <%= EXPRESSION %>

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Question 22: **Correct**

**Which statements are correct for a role class?**

* A. Roles should have class parameters of their own.
* B. Roles cannot use conditional logic to decide which profiles to use.
* C. Roles should not set class parameters for any profiles

**(Correct)**

* D. Roles can be used to declare any component classes or normal resources

#### Explanation

Option C is correct : Roles should not set class parameters for any profiles. (Those are all handled by data lookup.)Option A is incorrect : Roles should not have any class parameters of their own.Option B is incorrect : Optionally, roles can use conditional logic to decide which profiles to use. They can also include other role classes, as long as those roles obey these same rules.Option D is incorrect : The only thing roles should do is declare profile classes with include. Don’t declare any component classes or normal resources in a role.For additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_nodes/the\_roles\_and\_profiles\_method.html#rules-for-role-classesThe correct answer is: Roles should not set class parameters for any profiles

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Question 23: **Incorrect**

**You are reviewing a colleague's sudo module and want to make changes to the /etc/sudoers file being created in the following snippet:**

**file { '/etc/sudoers':**

**ensure => present,**

**content => template('sudo/sudoers.erb'),**

**owner => 'root',**

**group => 'root',**

**}**

**Where in the sudo module directory is this file located?**

* A. sudo/templates/sudoers.pp
* B. sudo/sudoers.erb
* C. sudo/files/sudoers.erb

**(Incorrect)**

* D. sudo/templates/sudoers.erb

**(Correct)**

#### Explanation

Option D is correct : All the erb templates are located in ‘module/template/template.erb’Option A is incorrect : sudoers.pp is not a valid template format fileOption B is incorrect : sudo/sudoers.erb  is an invalid loaction for a ERB templateOption C is incorrect : The files directory contains static files, which managed nodes can downloadFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_template.html#using-templatesThe correct answer is: sudo/templates/sudoers.erb

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Question 24: **Incorrect**

**You have just deployed several new nodes in your infrastructure and run the Puppet agent command with the --waitforcert argument.Which two commands would you execute on a CA master to verify that the client certificate requests and establishes trust between the new agents and the master?(Choose two.)**

* A. puppet cert sign

**(Correct)**

* B. puppet cert revoke

**(Incorrect)**

* C. puppet cert list

**(Correct)**

* D. puppet cert clean

#### Explanation

Option A is correct : This command is used to sign a requestOption C are correct : This command is used to  see any outstanding requests.Option B is incorrect : This command is used to revoke a certificate from the certificate authorityOption D is incorrect : This command is used to clean up a certificate from puppet masterFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/install\_linux.htmlThe correct answers are: puppet cert sign, puppet cert list

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Question 25: **Incorrect**

**Which of the below functions does not iterate but has family resemblance to the iteration functions?**

* A. each
* B. slice
* C. filter

**(Incorrect)**

* D. with

**(Correct)**

#### Explanation

Option D is correct : ‘with’ evaluates a block of code once, isolating it in its own local scope. Doesn’t iterate, but has a family resemblance to the iteration functions.Option A is incorrect : each repeats a block of code any number of times, using a collection of values to provide different parameters each time.Option B is incorrect : slice repeats a block of code any number of times, using groups of values from a collection as parameters.Option C is incorrect : filter uses a block of code to transform some data structure by removing non-matching elementsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_iteration.html#list-of-iteration-functionsThe correct answer is: with

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Question 26: **Incorrect**

**Resource collectors cannot be used**

* A. As an independent statement
* B. As an operand of the chaining statement

**(Incorrect)**

* C. As an argument of a function

**(Correct)**

* D. In a collector attribute block

#### Explanation

Option C is correct :Resource collectors cannot be used as an argument of a functionOption A is incorrect : Resource collectors (AKA the spaceship operator) select a group of resources by searching the attributes of every resource in the catalog. This search is independent of evaluation-order (that is, it even includes resources which haven’t yet been declared at the time the collector is written)Option B is incorrect :  Collectors realize virtual resources, can be used in chaining statements, and can override resource attributes.Option D is incorrect : Much like in an inherited class, you can use the special +> keyword to append values to attributes that accept arrays. See appending to attributes for more details.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_collectors.html#locationThe correct answer is: As an argument of a function

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Question 27: **Incorrect**

**A colleague has declared a exported resource for the sshkey as**

**belowclass ssh {# Declare:**

**@@sshkey { $::hostname:**

**type => dsa,**

**key  => $::sshdsakey,**

**}**

**How would you collect the sshkey value?**

* A. Sshkey <<|   |>>

**(Correct)**

* B. Sshkey <|   |>
* C. Sshkey <@@   >

**(Incorrect)**

* D. Sshkey <<|@@   |>>

#### Explanation

Option A is correct : <<|   |>> is the correct syntax for collecting a resource collector valueOption B is incorrect :  <|   |> is missing ‘< >’Option C is incorrect: ‘@@’  is used for declaring the exported resourceOption D is incorrect: ‘<<|@@   |>>’ is an invalid formatFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_exported.html#syntaxThe correct answer is: Sshkey <<|   |>>

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Question 28: **Correct**

**Based on the below code examples, which sample(s) would not match my host website.example.com?**

* A. node /^(mysite|website)\.example\.com$/ { include common}
* B. node /^mysite\d+$/ {  include common}

**(Correct)**

* C. node 'website.example.com', 'mysite.example.com' {  include common}
* D. node /^(site)\.example\.com$/ {  include common}

**(Correct)**

#### Explanation

Option B is correct: This regular expression would not match as it looks for hosts starting with 'mysite'Option D is correct : This code won’t match website.example.com as it starts matching hosts starting with  ‘site’Option A is incorrect : This code would match website.example.com as it has a condition to match ‘website’Option C is incorrect : This code would match website.example.com as it has it mentioned straightFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_node\_definitions.html#regular-expression-namesThe correct answers are: node /^mysite\d+$/ {  include common}, node /^(site)\.example\.com$/ {  include common}

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Question 29: **Incorrect**

**Which of the catalog statements out of the below includes given classes in the catalog and adds them as a dependency of the current class or defined resource?**

* A. contain
* B. require

**(Correct)**

* C. include

**(Incorrect)**

* D. realize

#### Explanation

Option B is correct : ‘require’  includes given classes in the catalog and adds them as a dependency of the current class or defined resourceOption A is incorrect : ‘contain’ includes given classes in the catalog and contains them in the current classOption C is incorrect : ‘include’ includes given classes in catalogOption D is incorrect : ‘realize’ makes a virtual resource realFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_functions.html#catalog-statementsThe correct answer is: require

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Question 30: **Incorrect**

**What is config retrieval on the viewing node reports?**

* A. How long it took to retrieve the node’s configuration.

**(Correct)**

* B. Time spent applying the catalog on the node

**(Incorrect)**

* C. Number of resources that changed
* D. Number of resources that would have been changed

#### Explanation

Option A is correct : ‘Config retrieval’ is the time spent retrieving the catalog for the node (in seconds).Option B is incorrect : This is reported by the ‘Run time’ reportOption C is incorrect : This is reported by ‘Changed’ reportOption D is incorrect : This is reported by ‘No-op’ reportFor additional information on this subject, please refer the below URL:https://docs.puppet.com/pe/latest/CM\_reports.html#working-with-the-reports-tableThe correct answer is: How long it took to retrieve the node’s configuration.

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Question 31: **Correct**

**Which databases  out of the below list is not part of the Puppet Enterprise ?**

* A. pe-classifier
* B. pe-puppetdb
* C. pe-activity
* D. pe-access

**(Correct)**

#### Explanation

Option D is correct : pe-access is an invalid databaseOption A is incorrect : pe-classifier contains Classification data, all Node Group informationOption B is incorrect : pe-puppetdb contains PuppetDB’s data, including exported resources, catalogs, facts, and reportsOption C is incorrect : pe-activity contains activity data from the Classifier, including who, what and whenFor additional information on this subject, please refer the below URL:https://docs.puppet.com/pe/latest/maintain\_console-db.html#databases-in-puppet-enterpriseThe correct answer is: pe-access

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Question 32: **Correct**

**Which of the following are not Core Data Types?**

* A. Array
* B. Undef
* C. Scalar

**(Correct)**

* D. Default

#### Explanation

Option C is correct : Scalar is an abstract data typeOption A is incorrect : Arrays are ordered lists of values and fall under core data types.Option B is incorrect : Puppet’s special undef value is roughly equivalent to nil in Ruby; it represents the absence of a value. If the strict\_variables setting isn’t enabled, variables which have never been declared have a value of undefOption D is incorrect : Puppet’s special default value usually acts like a keyword in a few limited corners of the language. Less commonly, it can also be used as a value in other places.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_data\_type.html#core-data-typesThe correct answer is: Scalar

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Question 33: **Correct**

**What will be the value of  ‘var’ in the below code snippet?**

**$foo = [ 'one', 'two', 'three', 'four', 'five' ]**

**notice( $var[2] )notice( $var[-2] )**

* A. two, four
* B. three, four

**(Correct)**

* C. two, undef
* D. three, undef

#### Explanation

Option B is correct : You can access items in an array by their numerical index (counting from zero). Also Arrays support negative indexes, with -1 being the final element of the array. ‘three’ is at 2 position and ‘four’ is at -2 positionOption A is incorrect : ‘two’ is at 1 positionOption C is incorrect : ‘two’ is at 1 position and undef is not correct value for -2Option D is incorrect : undef is incorrect, -2 has a value of ‘four’For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_data\_array.html#accessing-valuesThe correct answer is: three, four

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Question 34: **Correct**

**How would you use MCollective from the command line to trigger a Puppet run on all your CentOS nodes?**

* A. mco puppet runonce CentOS
* B. mco puppet runonce --wf operatingsystem=CentOS

**(Correct)**

* C. mco puppet -f operatingsystem=CentOS
* D. mco puppet runonce -f operatingsystem -v CentOS

#### Explanation

Option B is correct : Facts are the standard Puppet Enterprise facts, which are available in your Puppet manifests. A list of the core facts is available here. Use the -F or --with-fact option with a fact=value pair to filter on facts.Option A is incorrect : This command does not specify the factsOption C is incorrect : This is an invalid commandOption D is incorrect : This is an invalid syntaxFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_mcollective/invoking\_mcollective\_actions.html#filtering-by-fact-class-and-agentThe correct answer is: mco puppet runonce --wf operatingsystem=CentOS

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Question 35: **Correct**

**Which of the statements is correct about the Puppetfile?Choose the correct answer:**

* A. It sets the path to where the Puppet modules will be downloaded.
* B. To define what modules will be deployed to the Puppet master.

**(Correct)**

* C. Code Manager and r10k do not use Puppetfile
* D. Puppetfile by default installs the master branch from Git repository

#### Explanation

Option B is correct : Puppetfiles are text files that specify what content you want in each environment, what version of that content you want, and where you want to get the content from. Typically, this content includes:-       Modules from the Puppet Forge-       Modules from Git repositories-       Data from Git repositoriesOption A is incorrect : By default, Code Manager and r10k install content in a modules directory (./modules) in the same directory the Puppetfile is inOption C is incorrect : Code Manager and r10k both install and manage the content of your environments with Puppetfiles.Option D is incorrect : The branch option also has a special :control\_branch option, which allows you to deploy content from a control repo branch relative to the location of the Puppetfile.For additional information on this subject, please refer the below URL:https://docs.puppet.com/pe/latest/cmgmt\_puppetfile.htmlThe correct answer is: To define what modules will be deployed to the Puppet master.

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Question 36: **Incorrect**

**Structured data files must use one of the supported data types and must have the correct file extension. At the moment, Facter supports the following extensions and data types: Choose 3 correct formats.**

* A. .yaml

**(Correct)**

* B. .json

**(Correct)**

* C. .config

**(Incorrect)**

* D. .txt

**(Correct)**

#### Explanation

Option A is correct : YAML data, in the following format:---key1: val1key2: val2key3: val3Option B is correct : JSON data, in the following format:{            "key1": "val1",             "key2": "val2",             "key3": "val3"            }Option D is correct : Key value pairs, in the following format:key1=value1key2=value2key3=value3 Option C is incorrect : .config is not a valid file type supported by facter For additional information on this subject, please refer the below URL:https://puppet.com/docs/facter/3.9/custom\_facts.html#structured-data-factsThe correct answers are: .yaml, .json, .txt

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Question 37: **Incorrect**

**Which abstract data type matches any value that represents a data type?**

* A. Optional
* B. Type

**(Correct)**

* C. Data

**(Incorrect)**

* D. Default

#### Explanation

Option B is correct : By default, Type matches any value that represents a data type, such as Integer, Integer[0,800], String, Enum["running", "stopped"], etc. Option A is incorrect : The Optional data type wraps one other data type, and results in a data type that matches anything that type would match plus undefOption C is incorrect : The Data data type matches any value that would match Scalar, but it also matches:-       undef-       Arrays that only contain values that would also match Data-       Hashes whose keys would match Scalar and whose values would also match DataNote that it doesn’t match default or resource references.Option D is incorrect : Default is not an abstract data typeFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_data\_type.html#the-type-data-typeThe correct answer is: Type

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Question 38: **Correct**

**You want to install apache module and manage it with Puppetfile. The repository manager would be git and branch should be developmet. Which is the correct entry that should be done in the Puppetfile?**

* A. mod 'apache',:git    => 'https://github.com/puppetlabs/puppetlabs-apache',
* B. mod 'apache',:git    => 'https://github.com/puppetlabs/puppetlabs-apache',:branch => 'development'

**(Correct)**

* C. mod 'apache',:git    => 'https://github.com/puppetlabs/puppetlabs-apache',:commit => '8df51aa':default\_branch => ‘master’
* D. mod 'apache',:git    => 'https://github.com/puppetlabs/puppetlabs-apache',:default\_branch => 'master'

#### Explanation

Option B is correct : It has the correct repo and branch setOption A is incorrect : This snippet does not have the branch setOption C is incorrect : This snippet has the branch set as master and tied to a commitOption D is incorrect : This snippet has the master branch set For additional information on this subject, please refer the below URL:https://docs.puppet.com/pe/latest/cmgmt\_puppetfile.html#declare-content-from-a-relative-control-repo-branchThe correct answer is: mod 'apache',:git    => 'https://github.com/puppetlabs/puppetlabs-apache',:branch => 'development'

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Question 39: **Correct**

**In your puppet.conf configuration the below configuration is set -# puppet.conf[agent]environment = testing  You run the  puppet agent invocation shown in the following exhibit, # command invocationpuppet agent --test --environment production For which environment will the agent run occur?**

* A. development
* B. testing
* C. production

**(Correct)**

* D. master

#### Explanation

Option C is correct : The invocation will run on production environment as command Line Arguments always take precedenceOption A is incorrect : development was not specified anywhereOption B is incorrect : testing would be the environment for the default puppet run on the agentOption D is incorrect : master was not specified anywhereFor additional information on this subject, please refer the below URL:https://ask.puppet.com/question/29724/puppet-apply-e-notify-test-environment-production/The correct answer is: production

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Question 40: **Incorrect**

**You have a secret key value which is marked as sensitive. The value is redacted form logs and reports. How can you gain access to the original value of $secret?$secret = Sensitive('myPassword')notice($secret)**

* A. $secret = Sensitive('myPassword')$processed = $secret.shownotice $processed
* B. $secret = Sensitive('myPassword')$processed = $secret.unwrapnotice $processed

**(Correct)**

* C. $secret = Sensitive('myPassword')$processed = $secret.displaynotice $processed

**(Incorrect)**

* D. $secret = Sensitive('myPassword')$processed = $secret.visiblenotice $processed

#### Explanation

Option B is correct : unwrap function is used to gain access to the original data.Option A is incorrect : show is not a valid functionOption C is incorrect : display is not a valid functionOption D is incorrect : visible is not a valid functionFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_data\_sensitive.htmlThe correct answer is: $secret = Sensitive('myPassword')$processed = $secret.unwrapnotice $processed

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Question 41: **Incorrect**

**Which function calls its lambda multiple times and returns an array of every resulting value?**

* A. with
* B. map

**(Correct)**

* C. each

**(Incorrect)**

* D. filter

#### Explanation

Option B is correct : Applies a lambda to every value in a data structure and returns an array containing the results.This function takes two mandatory arguments, in this order:-       An array or hash the function will iterate over.-       A lambda, which the function calls for each element in the first argument. It can request one or two parameters.Option A is incorrect : The with function calls its lambda once and returns the resulting value.Option C is incorrect : The each function throws away its lambda’s values and returns a copy of its main argument.Option D is incorrect : Applies a lambda to every value in a data structure and returns an array or hash containing any elements for which the lambda evaluates to true.For additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/lang\_lambdas.html#lambda-produced-valuesThe correct answer is: map

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Question 42: **Incorrect**

**Which are the valid config sections in puppet.conf file?[Choose 3 correct answers]**

* A. main

**(Correct)**

* B. master

**(Correct)**

* C. agent

**(Correct)**

* D. source

#### Explanation

Option A is correct : This section is used by all commands and servicesOption B is correct : This section is used by the Puppet master service and the puppet cert commandOption C is correct : This section is used by the Puppet agent serviceOption D is incorrect : source is a invalid sectionFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_print.html#config-sectionsThe correct answers are: main, master, agent

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Question 43: **Incorrect**

**Which mcollective subcommand is  the general purpose client, which can invoke actions from any MCollective agent plugin ?**

* A. plugin
* B. rpc

**(Correct)**

* C. inventory

**(Incorrect)**

* D. facts

#### Explanation

Option B is correct : ‘rpc’ is the general purpose client, which can invoke actions from any MCollective agent plugin.Option A is incorrect : To get a list of the available plugins, which includes MCollective agent plugins, data query plugins, discovery methods, and validator plugins, run mco plugin doc.Option C is incorrect : ‘inventory’ is a general reporting tool for nodes, collectives and subcollectivesOption D is incorrect : ‘facts’ displays a summary of values for a single fact across all systemsFor additional information on this subject, please refer the below URL:https://puppet.com/docs/pe/2017.3/managing\_mcollective/invoking\_mcollective\_actions.html#invoking-actionsThe correct answer is: rpc

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Question 44: **Incorrect**

**What attributes can make the exec command more Idempotent? Pick all that apply.**

* A. onlyif

**(Correct)**

* B. unless

**(Correct)**

* C. print

**(Incorrect)**

* D. creates

**(Correct)**

#### Explanation

Option A is correct : A test command that checks the state of the target system and restricts when the exec can run. If present, Puppet runs this test command first, and only runs the main command if the test has an exit code of 0 (success).Option B is correct : A test command that checks the state of the target system and restricts when the exec can run. If present, Puppet runs this test command first, then runs the main command unless the test has an exit code of 0 (success).Option D is correct : A file to look for before running the command. The command will only run if the file doesn’t exist.Option C is incorrect : print is not a valid attribute of execFor additional information on this subject, please refer the below URL:https://docs.puppet.com/puppet/latest/types/exec.htmlThe correct answers are: onlyif, unless, creates

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Question 45: **Incorrect**

**You have three environments setup production, development and staging. Below is the content of the puppet.conf file.**

**[main]**

**certname = puppetmaster01.example.com**

**server = puppet**

**environment = production**

**runinterval = 1hs**

**toreconfigs = false**

**strict\_variables = true**

**[master]**

**dns\_alt\_names = puppetmaster01.example.com,puppet,puppet.example.com**

**reports = puppetdb**

**storeconfigs\_backend = puppetdb**

**storeconfigs = true**

**environment\_timeout = unlimited**

**You want to obtain the value of storeconfigs using command line  from the master section and for the development environment. Which command you will use to achieve this?**

* A. sudo puppet config print storeconfigs --section master
* B. sudo puppet print storeconfigs --section master --environment development

**(Incorrect)**

* C. sudo puppet config print storeconfigs --section master --environment development

**(Correct)**

* D. sudo puppet config print storeconfigs  --environment development

#### Explanation

Option C is correct : This command will correctly fetch the value of the ‘storeconfigs’ variable for the development environment and from the master sectionOption A is incorrect : This command will fetch the value by default for the production environment  as no --environment parameter is specifiedOption B is incorrect : This command misses the ‘config’ subcommandOption D is incorrect : This command misses to specify the ‘master’ sectionFor additional information on this subject, please refer the below URL:https://puppet.com/docs/puppet/5.3/config\_print.htmlThe correct answer is: sudo puppet config print storeconfigs --section master --environment development

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