HASHICORP CERTIFIED TERRAFORM ASSOCIATE
Practice Questions - Beginner

Question 1:

Terraform requires GO as a pre-requisite for installation?

A. True
B. False

Correct: B False

Question 2:

Referring to the following terraform code, what is the local name for the resource that is defined?

```
1. resource "aws_instance" "instance-1" {
2. ami                  = "ami-082b5a644766e6e6f"
3. instance_type        = "t2.micro"
4.  count               = 3
5. }
```

A. aws_instance
B. instance-1
C. ami-082b5a644766e0e6f
D. t2.micro

Correct: B

Question 3:

Alice has created a variable associated with the db_password parameter in the following way: var.db_password

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The value associated with the variable is defined in terraform.tfvars file in the following way: db_password="mypassword"

Will the password be part of the terraform state file?

A. True
B. False

Correct: A True

Question 4:

Refer to the following map:

```
variable "vpc_cidrs" {
  type = map
  default = {
    us-east-1      = "10.0.0.0/16"
    us-east-2      = "10.1.0.0/16"
    us-west-1      = "10.2.0.0/16"
    us-west-2      = "10.3.0.0/16"
}
```

How can we extract the value of the cidr range "10.2.0.0/16" ?

A. var.vpc_cidrs[2]
B. var.vpc_cidrs[3]
C. var.vpc_cidrs ["us-west-1"]
D. var.vpc_cidrs["10.2.0.0/16"]

Correct: C

Question 5:

What is the name of a file where all your infrastructure-related details managed by terraform is stored?

A. terraform.state
B. tfstate.terraform
C. terraform.tfstate

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D. terraform.db

Correct: C

Question 6:

Matthew is implementing Terraform in production. He realized that every region in AWS has a different AMI ID for Centos 7 OS. He wants to create a Terraform code that works for all the regions. He has already created the EC2 resource but needs to figure on how he can deal with different AMI IDs based on regions? What is the best approach?

A. Create a map of the region to AMI ID.
B. Create multiple TF files based on region and hardcode the AMI ID within the code.
C. Make use of Data Source.
D. None of the

Correct: C

Question 7:

James is having an issue with his Terraform code. He wants to enable debugging. How can he do that?

A. Set the VAR_TF=TRACE as an environment variable.
B. Set TF_VAR_LOG=DEBUG as an environment variable.
C. Set TF_VAR_LOG=TRACE as an environment variable.
D. Set the TF_LOG=TRACE as an environment variable.

Correct: D

Question 8:

Which of the following command will export the debugging logs to a file named /tmp/terraform-crash.log?

A. export TF_DEBUG_PATH=/tmp/terraform-crash.log
B. export TF_LOG_FILE=/tmp/terraform-crash.log
C. export TF_LOG_PATH=/tmp/terraform-crash.log
D. None of the Above

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Correct: C

Question 9:

Refer to the following list:

```
1. variable "city_list" {
2. type = list default = ["new york", "london", "mumbai", "tokyo", "delhi"]
3. }
```

How can the string of "mumbai" can be referred from a variable?

A. var.city_list["mumbai"]
B. var.city_list[3]
C. var.city_list[2]
D. None of the above

Correct: C

Question 10:

Which of the following command will format your terraform code?

A. terraform format
B. terraform format myec2.tf
C. terraform fmt
D. terraform validate

Correct: C

Question 11:

Terraform Plan validates the overall syntax of terraform code and will error if aspects like an undefined variable, missing arguments are part of the code?

A. True
B. False

Correct: A True

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Question 12:

Which feature allows multiple state files for a single configuration file depending upon the environment?

A. Terraform Modules
B. Terraform Data Sources
C. Terraform Environments
D. Terraform Workspace

Correct: D

Question 13:

Looking into the following code, what is the name of the provider that is being used?

```
1. resource "aws_instance" "myec2" {
2.   ami             = "ami-082b5a644766e6e6f"
3.   instance_type   = var.instancetype
4. }
```

A. aws_instance
B. aws
C. myec2
D. None of the Above

Correct: B

Question 14:

Can local value reference to another local value?

A. True
B. False

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Correct: A True

Question 15:

Is defining the module version argument mandatory while pulling code from Terraform Registry?

A. True
B. False

Correct: A True

Question 16:

If the condition is met, what will the below resource deploy?

```
1. resource "aws_instance" "dev" {
2.     ami               = "ami-082b5a644766e6e6f"
3.     instance_type     = "t2.micro"
4.    count             = var.istest == true ? 3:0
5. }
```

A. 0 Resources
B. 3 Resources

Correct: B

Question 17:

Refer to the following Terraform Code:

```
1. variable "elb_names" {
2.     type      = list
3.    default   = ["dev-loadbalancer", "stage-loadbalanacer","prod-loadbalancer"]
4. }
5. resource "aws_iam_user" "16" {
6.     name      = var.elb_names[count.index]
7.   count     = 2
8.   path      = "/system/"
9. }
```

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Base on this code, which IAM user name will not be created?

A. dev-loadbalancer
B. stage-loadbalanacer
C. prod-loadbalancer1

Correct: C

Question 18:

Matthew is new to terraform. He is creating an EC2 instance. Matthew wants to IP address of the instance to show in output automatically once the EC2 instance is deployed? Which resource in terraform can he use ?

A. provider
B. outputs
C. resource
D. output

Correct: D

Question 19:

A variable will need a value assigned in the following manner. Terraform Administrator needs to set a default value for the data type. What is the value that he can set?

az=["us-west-1a","us-west-1b"]

A. string
B. map
C. list
D. number

Correct: C

Question 20:

Andrew wants to automatically extract the contents of the id_rsa.pub file present in the local directory and use it for creating EC2 instance? Which function can he use?

A. extract

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B. file
C. time
D. unzip

Correct: B

Question 21:

Refer to the following terraform

```
variable "tags" {
    type      =  list
   default    = ["firstec2","secondec2","thirdec2"]

tags=  {
    name      =  element(var.tags, count.index)
}
```

If count.index is set to 1, which of the following values will be used ?

A. firstec2
B. secondec2
C. thirdec2

Correct: B

Question 22:

Alice is writing a module and within the module, there are multiple places where she has defined the same conditional expression. What is a better approach to dealing with this?

A. variables
B. functions
C. local Values
D. data Sources

Correct: C

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Question 23:

The following snippet is from the Terraform 0.11 version. Which of the below is the equivalent 0.12 version code?

${var.instance_types}"

A. var.instance_type
B. variable.instance_types
C. var.instance_types
D. None of the Above

Correct: C

Question 24:

Which of the following state management command allow you to retrieve a list of resources that are part of the state file?

A. terraform list
B. terraform state read
C. terraform state list
D. terraform state overview

Correct: C

Question 25:

Matthew has created an EC2 instance via Terraform. Matthew has defined the following rules within the security group:

Port 443 allowed from 0.0.0.0/0 Port 22 allowed from 125.36.50.23/32

John has added the following rule manually:

Port 80 allowed from 0.0.0.0/0

Next time when Matthew runs a terraform plan, what will happen?

A. Terraform Plan will show everything is up to date.
B. Terraform Plan will show output to remove the manually created rule.
C. Terraform Plan will fail since some of the resources were created manually.
D. None of the Above.

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Correct: B

Question 26:

In which folder are the custom workspace state files are stored ?

A. terraform
B. terraform/workspace
C. terraform.d
D. terraform.d
E. terraform.tfstate.d

Correct: E

Question 27:

Matthew has declared a variable name user_name in terraform configuration but missed defining the value associated with it.

variable "user_name" {}

On a terraform plan, will the output give an error since variable is not defined in code?

A. True
B. False

Correct: B False

Question 28:

James has decided to not use the terraform.tfvars file, instead, he wants to store all data into custom.tfvars file? Is it possible?

A. Yes
B. No

Correct: A Yes

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Question 29:

James has decided to not use the terraform. tfvars file, instead, he wants to store all data into custom.tfvars file? How can he deal with this use-case while running terraform plan?

A. terraform plan -var-file="custom.tfvars"
B. terraform plan -var-state-file="custom.tfvars"
C. terraform plan -state-file="custom.tfvars"
D. None of the Above

Correct: A

Question 30:

Provisioner block is within the resource configuration block in Terraform?

A. True
B. False

Correct: A True

Question 31:

A variable named instance_type has been undefined within the child module

variable instance_type {}

Will the root module be able to set that variable?

A. True
B. False

Correct: A True

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Question 32:

Matthew has referred to a child module that has the following code. Can Matthew override the instance_type from t2.micro to t2.large form his code without touching the module?

```
1. resource "aws_instance" "myec2" {
2.     ami             = "ami-082b5a644766e0e6f"
3.   instance_type     = "t2.micro"
4. }
```

A. Yes
B. No

Correct: B No

Question 33:

The lookup function is used to refer to which data type?

A. String
B. Number
C. Boolean
D. Map

Correct: D

Question 34:

John is an intern and he had recently created an EC2 instance manually. Can he import it in terraform without having to write a terraform configuration file for that EC2 instance from scratch?

A. Yes
B. No

Correct: B

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Question 35:

Matthew has written the configuration file of a manually created EC2 instance in Terraform. Following is the code:

```
resource "aws_instance" "myec2" {
    ami                    = "ami-bf5540df"
    instance_type          = "t2.micro"
    vpc_security_group_ids = ["sg-6ae7d613", "sg-53370035"]
   key_name                = "remotepractical"
    subnet_id              = "subnet -9e3cfbc5"

tags {
    Name                   = "manual"
}
```

The instance id of that EC2 instance is "i-841886ebb7e9bd20" How he can import data of EC2 to state file?

A. terraform import aws_instance.i-041886ebb7e9bd20
B. terraform import aws_instance.myec2 i-041886ebb7e9bd20
C. terraform import i-041886ebb7e9bd20 aws_instance.myec2
D. terraform import i-041886ebb7e9bd20 aws_instance

Correct: B

Question 36:

Jessica has created a database instance in AWS and for ease of use is outputting the value of the database password with the following code:

```
output "db_password" {
value  = local.db_password"
}
```

Jessica wants to hide the output value in the CLI after terraform apply? What is the best way ?

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A. Use the encrypt function to encrypt the value.
B. Make use of sensitive parameter
C. Make use of a secure parameter.
D. Make use of Hashing.

Correct: B

Question 37:

Following is the part of terraform code:

```
1. output "db_password" {
2. value       = local.db_password"
3. sensitive   = true
4. }
```

As sensitive is set to true, will the value associated with db password be available in plain-text in the state file for everyone to read?

A. True
B. False

Correct: A True

Question 38:

What are the benefits of Providers in Terraform?

A. Makes API interaction with the backend provider easier.
B. It allows us to encrypt data in transit.
C. Provides an option for using multiple terraform functions.
D. None of the Above.

Correct: A

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Question 39:

Terraform allows users to create custom user-defined functions?

A. True
B. False

Correct: B False

Question 40:

Is the terraform destroy command the only way to destroy resources?

A. True
B. False

Correct: B False

Question 41:

Multiple provider instances blocks for AWS can be part of a single configuration file?

A. True
B. False

Correct: A True

Question 42:

After creating an EC2 instance, Yash wants to automatically install certain software packages like Nginx inside that EC2 instance. What is the way to achieve it?

A. Make use of Local provisioner
B. Make use of Remote provisioner
C. Make use of Null provisioner
D. Perform the installation part manually after EC2 instance is created.

Correct: B

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Question 43:

You want to upgrade the provider version to the latest acceptable one. What is the approach to do it?

A. terraform provider upgrade
B. terraform init upgrade
C. terraform init -upgrade
D. Specify the new version under provider block do terraform init

Correct: C

Question 44:

Matthew needs to make use of module within his terraform code. Should the module always be public and open-source to be able to be used?

A. True
B. False

Correct: B False

Question 45:

Supratik has joined a Security Architect in Enterprise Corp. He has mandated that all the Terraform configuration that creates an S3 bucket must have encryption feature enabled. What is the best way to achieve it?

A. Review the S3 terraform code before terraform apply.
B. Create a script that checks if the encryption parameter is enabled on every git commit.
C. Make use of Sentinel Policies.
D. Mandate S3 encryption within terraform policies.

Correct: C

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Question 46:

If resources are deleted manually but were created through terraform, what will happen if terraform apply?

A. Resources will be created again.
B. Terraform will throw an error.
C. No Modification will happen.
D. None of the Above

Correct: A

Question 47:

terraform refresh will update the state file?.

A. True
B. False

Correct: A True

Question 48:

Enterprise Corp has recently tied up with multiple small organization for exchanging database information. Due to this, the firewall rules are increasing and are more than 100 rules. This is leading firewall configuration file that is difficult to manage. What is the way this type of configuration can be managed easily?

A. Terraform Functions
B. Conditional Expressions
C. Spat Expressions
D. Dynamic Blocks

Correct: D

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Question 49:

What is the system in which terraform plan and apply is happening remotely but the output is streamed locally called?

A. Remote to Local Backends
B. Remote Backends
C. Local Backends
D. Terraform Backends

Correct: B

Question 50:

James has created a variable and has explicitly defined the type as a string. Following is the snippet:

```
1. variable "myvar" {
2.     type = string
3. }
```

Which of the following value will be accepted?

A. 2
B. "2"
C. Both of the above values.
D. None of the above.

Correct: C

Question 51:

Alice has created 10 different AWS resources from a single terraform configuration file named large.tf Due to some manual modification to one of the EC2 instances, she wants to destroy and recreate the EC2 instance.

What is the ideal way to achieve it?

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A. terraform destroy
B. terraform recreate
C. terraform taint
D. Manually delete that EC2 instance and run terraform apply that will recreate the EC2 instance.

Correct: C

##

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