



# Valid DOP-C02 Practice Questions | Test DOP-C02 Questions Answers


**St. XAVIER'S SENIOR SECONDARY SCHOOL**  
 PRE-BOARD EXAMINATION 2025  
 CLASS : X  
 MATHEMATICS  
 TIME : 03 HOURS  
 MAXIMUM MARKS : 80

**GENERAL INSTRUCTIONS:**

Read the following instructions carefully and follow them:

- This Question Paper contains 38 questions divided into 5 sections A, B, C, D & E.
- In Section A, Question NO 1-18 are Multiple Choice Questions (MCQ) and question no 19 and 20 are Assertion-Reason based questions of 1 mark each.
- In Section B, Question NO 21-23 are Very Short Answer (VSA) type questions, carrying 2 marks each.
- In Section C, Question NO 24-25 are Short Answer (SA) type questions, carrying 3 marks each.
- In Section D, Question NO 26-27 are Long Answer (LA) type questions, carrying 5 marks each.
- In Section E, Question NO 28-30 are Case Study Based questions carrying 4 marks each with sub parts.
- All questions are compulsory. However, internal choice is given in 2 Questions of Section-B, 2 Questions of Section-C, 2 Questions of Section-D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
- Draw neat figures wherever required. Take  $\pi = 22/7$  wherever required if not stated.
- Use of calculators is not allowed.

Q. No.	SECTION-A (MULTIPLE CHOICE QUESTIONS)	[1X20]	MARKS	
01.	The largest number which when divided 70 and 125 leaving remainders 5 and 8 respectively is a. 5      b. 8      c. 21      d. 13		1	
02.	Let a and b be two positive integers such that $a = p^3q^4$ and $b = p^2q^3$ , where p and q are prime numbers. If $HCF(a, b) = p^m q^n$ and $LCM(a, b) = p^r q^s$ , then $(m+n)(r+s)$ is equal to a. 15      b. 30      c. 35      d. 72		1	
03.	If $\alpha$ and $\beta$ are zeroes of the polynomial $ax^2 + bx + c$ then the polynomial having zeroes are $-\alpha$ and $-\beta$ is a. $ax^2 - bx + c$ b. $ax^2 + bx - c$ c. $cx^2 + bx + a$ d. $cx^2 + bx - a$		1	
04.	The pair of equations $y=0$ and $y=7$ has: a. unique solution      b. no solution      c. two solutions      d. infinitely many solutions.		1	
05.	Before 7 yrs father's age was 7 times age of his son. After 3 yrs father's age will be 3 times age of his son. Their present ages are a. 42, 14      b. 43, 13      c. 42, 12      d. 49, 13		1	
06.	The roots of the equation $ax^2 + x + b = 0$ are equal if a. $b^2 = -4a$ b. $b^2 < 4a$ c. $b^2 = 4a$ d. $ab = \frac{1}{4}$		1	
07.	For the quadratic equation $x^2 - 4x + 1 = 0$ , the value of $x + \frac{1}{x}$ is a. 2      b. -2      c. 4      d. -4		1	
08.	Which term of the AP: 113, 108, 103, ..... is the first negative term? a. 22 <sup>nd</sup> term      b. 24 <sup>th</sup> term      c. 26 <sup>th</sup> term      d. 28 <sup>th</sup> term		1	
09.	If $p - 1, p + 3, p - 1$ forms an AP, then p is equal to a. 4      b. -4      c. 2      d. -2		1	
10.	In $\triangle ABC$ and $\triangle DEF$ , $\frac{AB}{DE} = \frac{BC}{EF}$ . Which of the following makes the two triangles similar? a. $\angle A = \angle D$ b. $\angle B = \angle D$ c. $\angle B = \angle E$ d. $\angle A = \angle F$		1	
11.	The co-ordinates of 4 <sup>th</sup> vertex D of a parallelogram ABCD whose three vertices are A(-2,3), B(6,7) and C(8,3) is a. (0,1)      b. (0,-1)      c. (-1,0)      d. (1,0)		1	
12.	If $x = 2\sin^2\theta$ , $y = 2\cos^2\theta + 1$ then $x + y$ is equal to a. 1      b. 2      c. 3      d. 4		1	
13.	A ladder is leaning against a vertical wall making an angle $60^\circ$ with the wall at a height of 6m from the ground. The length of the ladder is a. $6\sqrt{3}$ m      b. $8\sqrt{3}$ m      c. $4\sqrt{3}$ m      d. 12m		1	
14.	In the given fig AC and AB are tangents to a circle centred at O. If $\angle COD = 120^\circ$ , then $\angle BAO$ is equal to a. $30^\circ$ b. $60^\circ$ c. $45^\circ$ d. $90^\circ$			1

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Amazon DOP-C02 exam is designed for IT professionals who want to validate their skills and knowledge in developing and deploying applications on the Amazon Web Services (AWS) platform. AWS Certified DevOps Engineer - Professional certification is intended for individuals who have experience working with AWS technologies and services, and who are proficient in DevOps practices and principles. The DOP-C02 exam is the updated version of the AWS Certified DevOps Engineer - Professional certification, which was first introduced in 2018.

Amazon DOP-C02 (AWS Certified DevOps Engineer - Professional) certification exam is designed for individuals who possess a deep understanding of various DevOps practices and how to implement them on the AWS platform. AWS Certified DevOps Engineer - Professional certification validates the ability of an individual to design, deploy, operate, and manage highly available, scalable, and fault-tolerant systems on AWS.

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## Test DOP-C02 Questions Answers - DOP-C02 Reliable Test Question

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### Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q320-Q325):

#### NEW QUESTION # 320

A company uses AWS Organizations to manage multiple accounts. Information security policies require that all unencrypted Amazon EBS volumes be marked as non-compliant. A DevOps engineer needs to automatically deploy the solution and ensure that this compliance check is always present.

Which solution will accomplish this?

- A. Create an SCP in Organizations. Set the policy to prevent the launch of Amazon EC2 instances without encryption on the EBS volumes using a conditional expression. Apply the SCP to all AWS accounts.  
Use Amazon Athena to analyze the AWS CloudTrail output, looking for events that deny an ec2:RunInstances action.
- B. Deploy an IAM role to all accounts from a single trusted account. Build a pipeline with AWS CodePipeline with a stage in AWS Lambda to assume the IAM role, and list all EBS volumes in the account. Publish a report to Amazon S3.
- C. Create an AWS CloudFormation template that defines an AWS Inspector rule to check whether EBS encryption is enabled. Save the template to an Amazon S3 bucket that has been shared with all accounts within the company. Update the account creation script pointing to the CloudFormation template in Amazon S3.
- **D. Create an AWS Config organizational rule to check whether EBS encryption is enabled and deploy the rule using the AWS CLI. Create and apply an SCP to prohibit stopping and deleting AWS Config across the organization.**

**Answer: D**

Explanation:

Explanation

<https://docs.aws.amazon.com/config/latest/developerguide/ec2-ebs-encryption-by-default.html>

#### NEW QUESTION # 321

A company needs to implement failover for its application. The application includes an Amazon CloudFront distribution and a public Application Load Balancer (ALB) in an AWS Region. The company has configured the ALB as the default origin for the distribution.

After some recent application outages, the company wants a zero-second RTO. The company deploys the application to a secondary Region in a warm standby configuration. A DevOps engineer needs to automate the failover of the application to the secondary Region so that HTTP GET requests meet the desired RTO.

Which solution will meet these requirements?

- A. Create a CloudFront function that detects HTTP 5xx status codes. Configure the function to return a 307 Temporary Redirect error response to the secondary ALB if the function detects 5xx status codes. Update the distribution's default behavior to send origin responses to the function.
- **B. Create a new origin on the distribution for the secondary ALB. Create a new origin group. Set the original ALB as the primary origin. Configure the origin group to fail over for HTTP 5xx status codes. Update the default behavior to use the origin group.**
- C. Create a second CloudFront distribution that has the secondary ALB as the default origin. Create Amazon Route 53 alias records that have a failover policy and Evaluate Target Health set to Yes for both CloudFront distributions. Update the application to use the new record set.
- D. Create Amazon Route 53 alias records that have a failover policy and Evaluate Target Health set to Yes for both ALBs. Set the TTL of both records to 0. Update the distribution's origin to use the new record set.

**Answer: B**

Explanation:

The best solution to implement failover for the application is to use CloudFront origin groups. Origin groups allow CloudFront to automatically switch to a secondary origin when the primary origin is unavailable or returns specific HTTP status codes that indicate

a failure<sup>1</sup>. This way, CloudFront can serve the requests from the secondary ALB in the secondary Region without any delay or redirection. To set up origin groups, the DevOps engineer needs to create a new origin on the distribution for the secondary ALB, create a new origin group with the original ALB as the primary origin and the secondary ALB as the secondary origin, and configure the origin group to fail over for HTTP 5xx status codes. Then, the DevOps engineer needs to update the default behavior to use the origin group instead of the single origin<sup>2</sup>.

The other options are not as effective or efficient as the solution in option B. Option A is not suitable because creating a second CloudFront distribution will increase the complexity and cost of the application. Moreover, using Route 53 alias records with a failover policy will introduce some delay in detecting and switching to the secondary CloudFront distribution, which may not meet the zero-second RTO requirement. Option C is not feasible because CloudFront does not support using Route 53 alias records as origins<sup>3</sup>. Option D is not advisable because using a CloudFront function to redirect the requests to the secondary ALB will add an extra round-trip and latency to the failover process, which may also not meet the zero-second RTO requirement.

References:

- \* 1: Optimizing high availability with CloudFront origin failover - Amazon CloudFront
- \* 2: Creating an origin group - Amazon CloudFront
- \* 3: Values That You Specify When You Create or Update a Web Distribution - Amazon CloudFront

### NEW QUESTION # 322

A company has multiple member accounts that are part of an organization in AWS Organizations. The security team needs to review every Amazon EC2 security group and their inbound and outbound rules. The security team wants to programmatically retrieve this information from the member accounts using an AWS Lambda function in the management account of the organization.

Which combination of access changes will meet these requirements? (Choose three.)

- A. Create an IAM role in each member account to allow the sts:AssumeRole action against the management account IAM role's ARN.
- B. Create an IAM role in the management account that has access to the AmazonEC2ReadOnlyAccess managed policy.
- C. Create an IAM role in the management account that allows the sts:AssumeRole action against the member account IAM role's ARN.
- D. Create an IAM role in each member account that has access to the AmazonEC2ReadOnlyAccess managed policy.
- E. Create a trust relationship that allows users in the management account to assume the IAM roles of the member accounts.
- F. Create a trust relationship that allows users in the member accounts to assume the management account IAM role.

**Answer: C,D,E**

Explanation:

Explanation

<https://aws.amazon.com/premiumsupport/knowledge-center/lambda-function-assume-iam-role/>

<https://kreuzwerker.de/post/aws-multi-account-setups-reloaded>

### NEW QUESTION # 323

A company is implementing AWS CodePipeline to automate its testing process. The company wants to be notified when the execution state fails and used the following custom event pattern in Amazon EventBridge:

Which type of events will match this event pattern?

- A. Failed deploy and build actions across all the pipelines
- B. All the events across all pipelines
- C. Approval actions across all the pipelines
- D. All rejected or failed approval actions across all the pipelines

**Answer: D**

Explanation:

Explanation

Action-level states in events

Action state Description

STARTED The action is currently running.

SUCCEEDED The action was completed successfully.

FAILED For Approval actions, the FAILED state means the action was either rejected by the reviewer or failed due to an incorrect action configuration.

CANCELED The action was canceled because the pipeline structure was updated.

### NEW QUESTION # 324

A DevOps engineer uses AWS CodeBuild to frequently produce software packages. The CodeBuild project builds large Docker images that the DevOps engineer can use across multiple builds. The DevOps engineer wants to improve build performance and minimize costs. Which solution will meet these requirements?

- **A. Store the Docker images in an Amazon Elastic Container Registry (Amazon ECR) repository. Implement a local Docker layer cache for CodeBuild.**
- B. Cache the Docker images in an Amazon S3 bucket that is available across multiple build hosts. Expire the cache by using an S3 Lifecycle policy.
- C. Create custom AMIs that contain the cached Docker images. In the CodeBuild build, launch Amazon EC2 instances from the custom AMIs.
- D. Store the Docker images in an Amazon Elastic Container Registry (Amazon ECR) repository. Modify the CodeBuild project runtime configuration to always use the most recent image version.

**Answer: A**

Explanation:

Step 1: Storing Docker Images in Amazon ECR

Docker images can be large, and storing them in a centralized, scalable location can greatly reduce build times. Amazon Elastic Container Registry (ECR) is a fully managed container registry that stores, manages, and deploys Docker container images.

Action: Store the Docker images in an ECR repository.

Why: Storing Docker images in ECR ensures that Docker images can be reused across multiple builds, improving build performance by avoiding the need to rebuild the images from scratch.

Reference:

Step 2: Implementing Docker Layer Caching in CodeBuild

Docker layer caching is essential for improving performance in continuous integration pipelines. CodeBuild supports local caching of Docker layers, which speeds up builds that reuse Docker images across multiple runs.

Action: Implement Docker layer caching within the CodeBuild project.

Why: This improves performance by allowing frequently used Docker layers to be cached locally, avoiding the need to pull or build the layers every time.

This corresponds to Option A: Store the Docker images in an Amazon Elastic Container Registry (Amazon ECR) repository. Implement a local Docker layer cache for CodeBuild.

### NEW QUESTION # 325

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