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IBM C1000-112 STUDY GUIDE PDF

Grab the IBM Quantum Developer Certification PDF Questions & Answers

Details of the Exam-Syllabus-Questions

C1000-112
IBM Certified Associate Developer - Quantum Computation using Qiskit v0.2X
60 Questions Exam – 73% Cut Score – Duration of 90 minutes

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Get an Overview of the C1000-112 Certification:

Who should take the **C1000-112 exam**? This is the first question that comes to a candidate's mind when preparing for the Quantum Developer certification. The C1000-112 certification is suitable for candidates who are keen to earn knowledge on the Associate Developer and grab their IBM Certified Associate Developer - Quantum Computation using Qiskit v0.2X. When it is about starting the preparation, most candidates get confused regarding the study materials and study approach. But C1000-112 study guide PDF is here to solve the problem. C1000-112 PDF combines some effective sample questions and offers valuable tips to pass the exam with ease.

Why Should You Earn the IBM C1000-112 Certification?

There are several reasons why one should grab the C1000-112 certification.

- The Quantum Developer certification proves to be one of the most recognized certifications.
- The certification badge proves the knowledge of the candidate regarding subject matters and makes his resume presentable to potential candidates.
- Thus earning the **IBM Certified Associate Developer - Quantum Computation using Qiskit v0.2X** is a powerful qualification for a prosperous career.

What is the IBM C1000-112 Quantum Developer Certification Exam Structure?

Exam Name	IBM Certified Associate Developer - Quantum Computation using Qiskit v0.2X
Exam Code	C1000-112
Exam Price	$200 (USD)
Duration	90 mins
Number of Questions	60
Passing Score	73%
Books / Training	**Qiskit Developer Certification Syllabus**, **Study Guide**
Schedule Exam	**Pearson VUE**
Sample Questions	**IBM Quantum Developer Sample Questions**
Practice Exam	**IBM C1000-112 Certification Practice Exam**

Enhance Knowledge with C1000-112 Sample Questions:

Question: 1

What would be the fidelity result(s) for these two operators, which differ only by global phase?
op_a = Operator(XGate())
op_b = numpy.exp(1j * 0.5) * Operator(XGate())

    a) state_fidelity() of 1.0
    b) state_fidelity() and average_gate_fidelity() of 1.0
    c) average_gate_fidelity() and process_fidelity() of 1.0
    d) state_fidelity(), average_gate_fidelity() and process_fidelity() of 1.0

Answer: c

Question: 2

S-gate is a Qiskit phase gate with what value of the phase parameter?

    a) π/8
    b) π/4
    c) π
    d) π/2

Answer: d

Question: 3

Which line of code would assign a statevector simulator object to the variable backend?

a) backend = BasicAer.StatevectorSimulatorPy()
b) backend = BasicAer.get_backend('statevector_simulator')
c) backend = BasicAer.StatevectorSimulatorPy().name()
d) backend = BasicAer.get_back('statevector_simulator')

Answer: b

Question: 4

Given this code fragment, what is the probability that a measurement would result in |0>?
qc = QuantumCircuit(1)
qc.ry(3 * math.pi/4, 0)

a) 0.8536
b) 0.5
c) 0.1464
d) 1.0

Answer: c

Question: 5

Which statement will create a quantum circuit with four quantum bits and four classical bits?

a) QuantumCircuit(4, 4)
b) QuantumCircuit(4)
c) QuantumCircuit(QuantumRegister(4, 'qr0'), QuantumRegister(4, 'cr1'))
d) QuantumCircuit([4, 4])

Answer: a

Question: 6

Which two options would place a barrier across all qubits to the QuantumCircuit below?
qc = QuantumCircuit(3,3)

a) qc.barrier(qc)
b) qc.barrier([0,1,2])
c) qc.barrier()
d) qc.barrier(3)
e) qc.barrier_all()

Answer: b, c

Question: 7

Which code fragment will produce a maximally entangled, or Bell, state?

    a) bell = QuantumCircuit(2)
         bell.h(0)
         bell.x(1)
         bell.cx(0, 1)
    b) bell = QuantumCircuit(2)
         bell.cx(0, 1)
         bell.h(0)
         bell.x(1)
    c) bell = QuantumCircuit(2)
         bell.h(0)
         bell.x(1)
         bell.cz(0, 1)
    d) bell = QuantumCircuit(2)
         bell.h(0)
         bell.h(0)

Answer: a

Question: 8

Which code fragment would yield an operator that represents a single-qubit X gate?

    a) op = Operator.Xop(0)
    b) qc = QuantumCircuit(1)
         qc.x(0)
         op = Operator(qc)
    c) op = Operator([[0,1]])
    d) op = Operator([[1,0,0,1]])

Answer: b

Question: 9

Which code fragment will produce a multi-qubit gate other than a CNOT?

    a) qc.cx(0,1)
    b) qc.cnot(0,1)
    c) qc.mct([0],1)
    d) qc.cz(0,1)

Answer: d

Question: 10

Which three simulators are available in BasicAer?

a) qasm_simulator
b) basic_qasm_simulator
c) statevector_simulator
d) unitary_simulator
e) quantum_simulator
f) quantum_circuit_simulator

Answer: a, c, d

What Study Guide Works Best in acing the IBM C1000-112 Quantum Developer Certification?

The C1000-112 study guide is a combination of some proven study tips and the combination of all valuable study materials like sample questions, syllabus and practice tests in one place.

Explore the Syllabus Topics and Learn from the Core:

If you are determined to earn success in the Quantum Developer exam, getting in full touch of the **syllabus** is mandatory. During preparation, you might not like all syllabus sections or topics, but try to get at least the fundamental knowledge from the sections you don't like. The more you possess knowledge on all syllabus sections, the more is the chance to attempt maximum number of questions during the actual exam.

Make Your Schedule:

Studying and completing the syllabus becomes easier, if you work on the syllabus topics after making a schedule. Your syllabus must mention what areas you want to cover and within what time. Once you make a schedule and follow it regularly, syllabus completion becomes easier and preparation becomes smoother.

Get Expert Advice from the Training:

Do not forget to join the IBM C1000-112 training if it is providing any. Training enhances the practical knowledge of a candidate, which helps them to work well in the practical field during projects.

Get Access to the PDF Sample Questions:

If your study material is in a **PDF format** or the materials are mobile-friendly, what could be better than that? Get access to the free sample questions and keep enhancing your knowledge beyond the syllabus.

Avoid Dumps and utilize the IBM C1000-112 Practice Test:

Why should you rely on practice tests? The reason is simple: you must get familiar with the exam pattern before reaching the exam hall. An aspirant aware of the exam structure and time management during the exam preparation can perform well in the actual exam and attempt the maximum number of questions during the exam.

Many aspirants prefer to read from dumps, but they miss out on the self assessment method. Therefore, C1000-112 practice tests always stand out to be the better choice than dumps PDF.

Avail the Proven C1000-112 Practice Test for Success!!!

Do you want to pass the C1000-112 exam on your first attempt? Stop worrying; we, EduSum.com are here to provide you the best experience during your IBM Certified Associate Developer - Quantum Computation using Qiskit v0.2X preparation. Try out our free mock tests to get a glimpse of our quality study materials, and build your confidence with the premium **C1000-112 practice tests**. Our expert-designed questions help you to improve performance and pass the exam on your first attempt.