Congratulations! You passed!
TO PASS 80% or higher

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GRADE
100%

Model Optimizer Concept

LATEST SUBMISSION GRADE
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1. What technique(s) does the model optimizers use to enhance models? **1 / 1 point**

- (•) Fusion of layers
- ( ) Batch-orientation
- ( ) Rotation
- ( ) All of the above
- ( ) None of the above

Correct
The Model Optimizer performs horizontal layer fusion, node merging, batch normalization, scale shift, unused layer (Dropout) dropping and quantization.

2. True or false: The model optimizer is hardware dependent. **1 / 1 point**

- ( ) True
- (•) False

Correct
Model Optimizer performs a number of hardware agnostic optimizations. For example, certain primitives like linear operations (BatchNorm and ScaleShift), are automatically fused into convolution layers.

3. What does IR stand for? **1 / 1 point**

- ( ) Integrated rank
- ( ) Inference representation
- (•) Intermediate representation
- ( ) Intel reference
- ( ) Intel required

Correct
An Intermediate Representation (IR) of the network is produced by the Model Optimizer to be read by the Inference Engine.

4. What floating point (FP) data format(s) does model optimizer support? **1 / 1 point**

- ( ) a. FP32
- ( ) b. FP16
- ( ) c. FP11
- (•) d. A and B
- ( ) e. B and C

Correct
The Model Optimizer supports optimizing models to data types of floating point (FP) 32-bit and 16-bit.

5. True or false: Phase #1 involves the conversion of a model into IR files. **1 / 1 point**

- (•) True
- ( ) False

False

Correct

In the first phase of the Intel Distribution of OpenVINO toolkit's inference flow, a pre-trained model is converted to an intermediate representation (IR) via the model optimizer for use with the inference engine.