# Introductio <sup>距结束: 00:09:44</sup> n a Focus on Classification Tasks TEST A

**Directions:** This program test contains 10 single choice questions to be answered within 30 minutes designed to measure program candidates' basic knowledge and skills that they are assumed to have acquired. Solve each problem and choose the correct answer. Pace yourself and do not linger over problems that may take you too much time.

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1. Which of these is a re	easonable definition of machine learning?
	s the field of allowing robots to act intelligently.
_	s the field of study that gives computers the ability to learn without being explicitly
	s the science of programming computers.
_	earns from labeled data.
2. Strong Artificial Intelli	igence is
OA. a set of computer were generated by huma	programs that produce output that would be considered to reflect intelligence if it
B. the embodiment of	f human intellectual capabilities within a computer
OC. the study of menta	al faculties through the use of mental models implemented on a computer
O.D. all of the mentione	rd
3. A computer program	is said to learn from experience E with respect to some task T and some
performance measure P	if its performance on T, as measured by P, improves with experience E.
Suppose we feed a learn	ning algorithm a lot of historical weather data, and have it learn to predict
weather. In this setting,	what is T?
<ul><li>A. The weather predict</li></ul>	ction task.
OB. The process of the	algorithm examining a large amount of historical weather data.
○ C. The probability of i	it correctly predicting a future date's weather.
O.D. None of these.	
4. Different learning met	thods does not include
OA. Memorization	
○B. Analogy	
○ C. Deduction	
OD. Introduction	

5. Select the outcome of following codes. def sum(a,b,c): if a==b or b==c and a==c: sum=0 else: sum=a+b+c return sum print(sum(1,1,2))

A. 0

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Ов.	2
Oc.	3

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OD. 4

- 6. Which of the following will be Euclidean Distance between the two data point A(1,3) and B(2,3)?
- A. 1
- OB. 2
- OC. 4
- OD. 8
- 7. K-fold cross-validation is
- OA. linear in K
- OB. quadratic in K
- OC. cubic in K
- OD. exponential in K
- 8. You observe the following while fitting a linear regression to the data: As you increase the amount of training data, the test error decreases and the training error increases. The train error is quite low (almost what you expect it to), while the test error is much higher than the train error. What do you think is the main reason behind this behavior. Choose the most probable option.
- A. High variance
- OB. High model bias
- O.C. High estimation bias
- O.D. None of the above
- 9. Select the outcome of following codes. import math a=math.acos(0.5) print(a)
- O A. π/2
- Θ B. π/3
- OC. π/4
- $\bigcirc$  D.  $\pi/6$
- 10. Select the outcome of following codes.

```
n=0.
m=0.
numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)
for x in numbers:

√
    if x%2==0: ₽
         n=n+1 ₽
    else:₽
         m=m+1.
print((n,m))₽
OA. (4,5)
```

○ B. (5,4)

○ C. (4,4) ○ D. (5,5)

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