Ohri Testing Center

Exam 2018-01-10

Personal Data

Family Name:

Given Name:

Signature:

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Registration Number

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1	☐	☐	☐	☐	☐	☐	☐	1
2	☐	☐	☐	☐	☐	☐	☐	2
3	☐	☐	☐	☐	☐	☐	☐	3
4	☐	☐	☐	☐	☐	☐	☐	4
5	☐	☐	☐	☐	☐	☐	☐	5
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8	☐	☐	☐	☐	☐	☐	☐	8
9	☐	☐	☐	☐	☐	☐	☐	9

In this section **no** changes or modifications must be made!

Scrambling

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Type: 005

Exam ID: 18011000002

Please mark the boxes carefully: ☒ Not marked: ☐ or ■

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Only clearly marked and positionally accurate crosses will be processed!

Answers 1 - 2

	a	b	c	d
1	☐	☐	☐	☐
2	☐	☐	☐	☐

1. *(1 point)* A box contains 15 green and 10 yellow balls. If 10 balls are randomly drawn,one-by-one, with replacement, then the variance of the number of green balls drawn is :

   (a) 12/5

   (b) 6

   (c) 4

   (d) 6/25

2. *(1 point)* An observer is moving with half the speed of light towards a stationary microwave source emitting waves at frequency 10 GHz. What is the frequency of the microwave measured by the observer ?(speed of light 3 x 10^8 m/s)

   (a) 17.3GHz

   (b) 10.1GHz

   (c) 12.1GHz

   (d) 15.3GHz