

### Question 1

Not yet answered

Marked out of 1.50

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Fie  $|\psi\rangle$  un registru pe 2 qubiti in starea:

$$|\psi\rangle = \sqrt{\frac{1}{10}}|00\rangle + \sqrt{\frac{2}{10}}|01\rangle + \sqrt{\frac{3}{10}}|10\rangle + \sqrt{\frac{4}{10}}|11\rangle$$

Care este probabilitatea de a obtine starea  $|0\rangle$  daca masuram cel mai semnificativ qubit?

↓ A B I [List Icons] [Link Icon] [Image Icon]

 $\parallel$ 

### Question 2

Not yet answered

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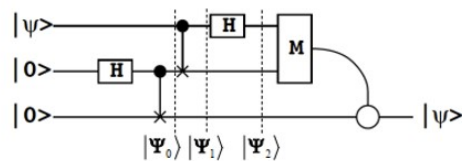
Scriti rezultatul la fiecare pas ( $|\psi_0\rangle$ ,  $|\psi_1\rangle$  si  $|\psi_2\rangle$ ), pentru circuitul de teleportare a starii, unde:

$$|\psi\rangle = |0\rangle$$

Apoi scrieti starea lui Bob si transformarea ceruta, stiind ca dupa masuratoare starea qubitilor lui Alice devine:

$|00\rangle$

Circuitul de teleportare este cel din figura urmatoare:



¶ A B I       



Question 6

Not yet answered

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Incărcati fișierul/fisierele cu soluția (de preferat un singur fișier .pdf).

Rich text editor toolbar with icons for undo, bold, italic, bulleted list, numbered list, link, unlink, and image.

Maximum size for new files: 100MB

File upload interface showing a dashed box for dropping files and a blue arrow pointing down. Text below the box: "You can drag and drop files here to add them."

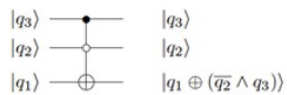
Question 7

Not yet answered

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Sintetizati urmatoarea poarta cuantica folosind poarta Toffoli (CCNOT) si poarta NOT (X):



Rich text editor toolbar with icons for undo, bold, italic, bulleted list, numbered list, link, unlink, and image.