Assignment 8

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-03-17, 23:59 IST.

1. In python, which of the following function returns the sample rate (in samples/sec) and data from a WAV file?
   a. scipy.io.wavfile.read
   b. scipy.io.wavfile.write
   c. scipy.io.read
   d. scipy.io.write
   No, the answer is incorrect. Score: 0
   Accepted Answers: a. scipy.io.wavfile.read

2. Which of the following function writes a NumPy array as a WAV file in python?
   a. scipy.io.wavfile.read
   b. scipy.io.wavfile.write
   c. scipy.io.read
   d. scipy.io.write
   No, the answer is incorrect. Score: 0
   Accepted Answers: b. scipy.io.wavfile.write

3. Which of the following function in python computes the 1-D non-aliasing discrete Fourier Transform (DFT) algorithm?
   a. scipy.fft.rfft
   b. scipy.fft.fft
   c. scipy.fft.fft1d
   d. None of the above
   No, the answer is incorrect. Score: 0
   Accepted Answers: a. scipy.fft.rfft

4. Which of the following function is used in python to return the Discrete Fourier Transform (DFT) sample frequencies?
   a. scipy.fft.fftfreq
   b. scipy.fft.fftshift
   c. scipy.fft.fftfreq
   d. None of the above
   No, the answer is incorrect. Score: 0
   Accepted Answers: b. scipy.fft.fftshift

5. Which function in python first peaks inside a signal based on peak properties?
   a. scipy.signal.find_peaks
   b. scipy.signal.gaussian_filter
   c. scipy.signal.find_peaks
   d. None of the above
   No, the answer is incorrect. Score: 0
   Accepted Answers: a. scipy.signal.find_peaks

6. The matplotlib command `plt.axis('off')` will set the x axis unit to?
   a. 1.5 times shorter than x axis unit
   b. 1.5 times longer than x axis unit
   c. 1.5 times shorter than y axis unit
   d. 1.5 times longer than y axis unit
   No, the answer is incorrect. Score: 0
   Accepted Answers: a. 1.5 times shorter than y axis unit

7. In python, if x is 1D array of size 3 then the command `np.where` will return
   a. All the elements from index 0 to index 3
   b. All elements starting from index 0
   c. Element with index 3
   d. Grp error
   No, the answer is incorrect. Score: 0
   Accepted Answers: a. All the elements from index 0 to index 3

8. Which function in PETSc is used to get the number of steps completed?
   a. TSGetTime()
   b. TSGetTime()
   c. TSCreateFunction
   d. TSGetFunction
   No, the answer is incorrect. Score: 0
   Accepted Answers: a. TSGetFunction

9. Which function in PETSc asks the maximum number of steps to use?
   a. TSGetTime()
   b. TSGetFunction
   c. TSGetFunction
   d. None of the above
   No, the answer is incorrect. Score: 0
   Accepted Answers: a. TSGetFunction

10. Which PETSc function gets a PETSc vector that may be used with the DM global routines?
    a. DMCreateUnstructured
    b. DMCreateGlobalVector
    c. DMCreateGlobalVector
    d. DMCreateGlobalMatrix
    No, the answer is incorrect. Score: 0
    Accepted Answers: a. DMCreateUnstructured