



Answer all questions

Q1/ Answer by true or false for all the following statements (15 points):

- Images exist only in the visual spectrum.
- *****
- *****
- *****
- *****

Q2/ Select the right answer for each of the following questions (15 points):

- When you enter dark room in a bright day, it takes some time before you can see reasonably well in the room. Which visual process explains this phenomena?
 - Brightness adaptation
 - Binocular vision (2 eyes)
 - Color vision
 - Dilated pupils
- *****



- *****
- *****
- *****

Q3/ Complete the following statements by filling the blanks (15 points):

- The determinant of a rotation matrix is: -----
- *****
- *****
- *****
- *****

Q4/ What is positron emission tomography (PET) (5 points)? And how it works (20 points)?

Q5/ How the imaging machines advance our pictorial information (30 points)?