Please have a look at the following publication describing the YOLO algorithm

https://arxiv.org/abs/1506.02640

Please answer the following questions:

1. Please describe in your own words how the previous state of the art (DPM) looked like in Object Recognition (3 Sentences max)
2. Please describe in your own words how R-CNN differs from the previous state of the art (3 Sentences max)
3. Please describe in your own words the key difference between previous state of the art (R-CNN, …) and YOLO (3 Sentences max)
4. How many Convolutional Layers are present?
5. How many Fully-Connected layers are present?
6. What's the shape of the input layer?
7. What CNN Kernel Shape(s) is/are used?
8. What is the shape of the output tensor?