

Answer the following questions, using the following figure to help.

1. Fill in the blanks for the following paragraph.

Secretion

Figure 3.11



For protein synthesis and secretion:
In the _____(a), genes are transcribed to messenger RNA, which go to the (b)_____ on the surface of the (c)_____. Information from the m-RNA is used to make protein. Protein and lipids from (c) are packaged into _____(d) to be sent to the (e)_____. Final processing (adding sugars etc.) occurs in (e) and the protein is repackaged into a _____(d) for export out of the cell. Proteins are released from the cell when the _____(d) fuses to the cell membrane, a process called (f)_____.

In a different process:
Sometimes the membrane of a cell can “cave in” forming a _____(d) around a substance to be taken into the cell, a process called (g)_____.

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2. Identify structures that you entered into fields a-e on the Figure.