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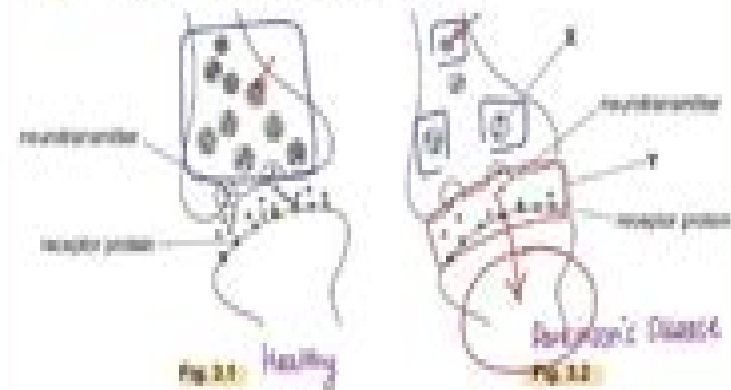
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1 Fig. 3.1 is a diagram of the junction between two neurones in a healthy person.

Fig. 3.2 is a diagram of the junction between the same two neurones in a person who has **Parkinson's disease**. This disease affects the nervous system.



(a) Identify the parts labelled X and Y in Fig. 3.2.

X Vesicles

Y Synaptic gap

(1)

(b) Parkinson's disease affects neurones in the brain that are responsible for movement.

Using the information in Fig. 3.1 and Fig. 3.2 compare and explain the effect of Parkinson's disease on a person's movement.

⚡ Parkinson's patient has fewer vesicles [1 mark]
fewer neurotransmitter inside the vesicles [1 mark]
and fewer neurotransmitter are released [1 mark]

fewer impulses in the post-synaptic neurone [1 mark]

leading to lesser movement in the patient [1 mark]

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Harvey J. Graff



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