Describe the parts of the brain activated in the following situation: ANN, the landscape artist, is standing at **her easel**, **painting** with her **right hand** as she **looks out** the window at her garden. She is **listening** to classical music as she paints.

The <u>crossover point</u> , where sensory & motor <b>ner</b> beripheral nervous system. Controls heartbeat & breathing Controls arousal Switchboard between sensory neurons and higher brain regions that deal with seeing, hearing, tasting and touching; <u>routes sensory information</u> from the artist's <u>eyes, ears and hands</u> to the higher brain regions <u>connecting seeing &amp; touching</u> .	ves send/receive info between the brain & the <u>Controls</u> heartbeat, breathing and other vital life <u>functions</u> that keep the artist alive. <u>Receives inputs</u> from the thalamus and the cerebra cortex that help maintain the artist's arousal,.   Through the thalamus the artist's brain receives the necessary sensory info to enable decision-making, regarding all aspects of painting the picture. Also routes some of the higher brain responses to the cerebellum,
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Coordinates voluntary movement	Coordinates movement of the right arm and hand
The limbic system's <u>involvement in emotion, motiv</u> artistic experience	vation and memory will influence many aspects of a
Regulates thirst, hunger, body temperature & sexual behavior. Controls maintenance functions, i.e., eating; Linked to emotion & reward center; Relays visual and auditory cues	The <u>pleasure centers</u> of the hypothalamus comprise the brain's reward system and will <u>help maintain the</u> <u>artist's motivation</u> for creating the painting.
Functions include the processing of emotional nemories	Depending upon the theme of the music and/or the painting, it may have a role in expressing the artist's passion
Memory and memory formation	<u>Involved in the formation of memories of what to</u> <u>paint, and how to set perspective</u> , <u>as well as</u> memories of mixing colors and painting techniques
	aspects of the artist's behavior. Sensory projection Il process messages from the artist's, eyes, ears, and
Higher level thinking; Contains motor cortex;	Association Areas will be <u>involved in the <b>planning &amp; decision making inherent in executing the painting</b>.</u>
Noves body parts; sends messages out to the body; controls voluntary movements	Organize the necessary body movements. Sends message to the right hand regarding what to do
Includes conconv contax: Spatial contaxt	Painter's perceptual perspective
Encoming messages from skin & movement of body parts; registers & processes body sensations	Feeling the paintbrush
Receives visual info from opposite visual field Used for vision	Processes what she sees as she looks out the window and puts it into her painting
	Auditory
	Used for hearing the music
Tocesses sounds	Used for hearing the music
Associated with creativity: spatial ability for pair	ntina: Tacludes visual comprehension
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	The limbic system's <u>involvement in emotion, motivitistic experience</u> Regulates thirst, hunger, body temperature & exual behavior. Controls maintenance unctions, i.e., eating; Linked to emotion & eward center; Relays visual and auditory cues functions include the processing of emotional memories Memory and memory formation The cerebral cortex will <u>oversee</u> will oversee a <u>ll</u> reas in the occipital, temporal, parietal lobes <u>wi</u> <u>ands</u> . It also helps in the planning of the paintin digher level thinking; Contains motor cortex; Moves body parts; sends messages out to the hody; controls voluntary movements includes sensory cortex; Spatial context incoming messages from skin & movement of ody parts; registers & processes body ensations