Draw 1914 Due: Sunday Febuary a 19 M B-Cell receptor (membrane-embedded 19 M) Pentameric Structure -fab fragment/variable region - Constant regions Wembrane Membrane Ly Membrane - Spanning domains 4 Cytopiasmic tail Paragraph The Membrane-bound ig M B-C 11 Receptor (BCR) has a complex structure which has 5 IgM antibody Subunits that form a pentamer Each Subunit Contains an antigen-binding fragment with the variable regions toilored to interact with various autigens, while the constant regions provide Structural stability. A transmembrane domain anchors the veceptor within the B-cell membrane, distinguishing it fro the soluble IgM pentamer that circulates in bloodstream. Calycosylation Sites within the IgM BCR enhane Punctionality and Stability which aids in molecular interactions. The Cytoplasmic tail allows for Critical Signaling which is essential for B-cell activation. Lastly, the Membrane - Spanning domain and Cytoplasmic tells are designed for immune response, hence reinforcing their role in 8-cell activation and activation for immune responses.