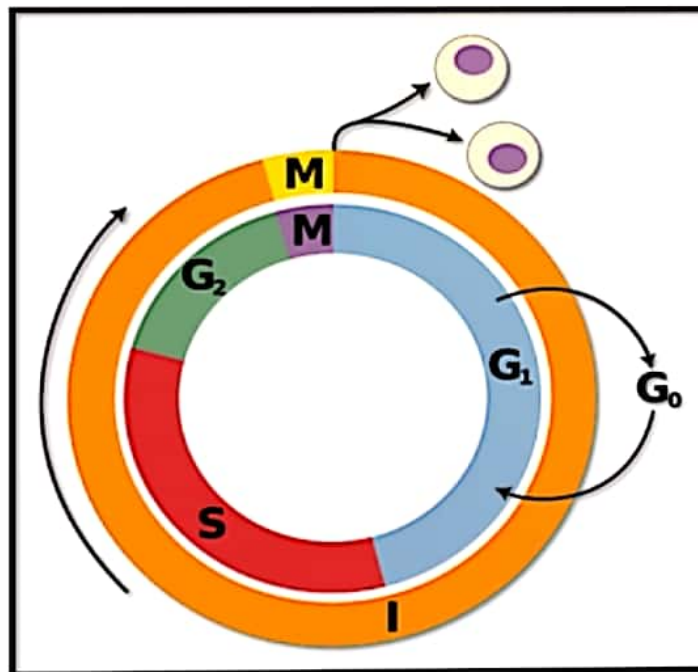


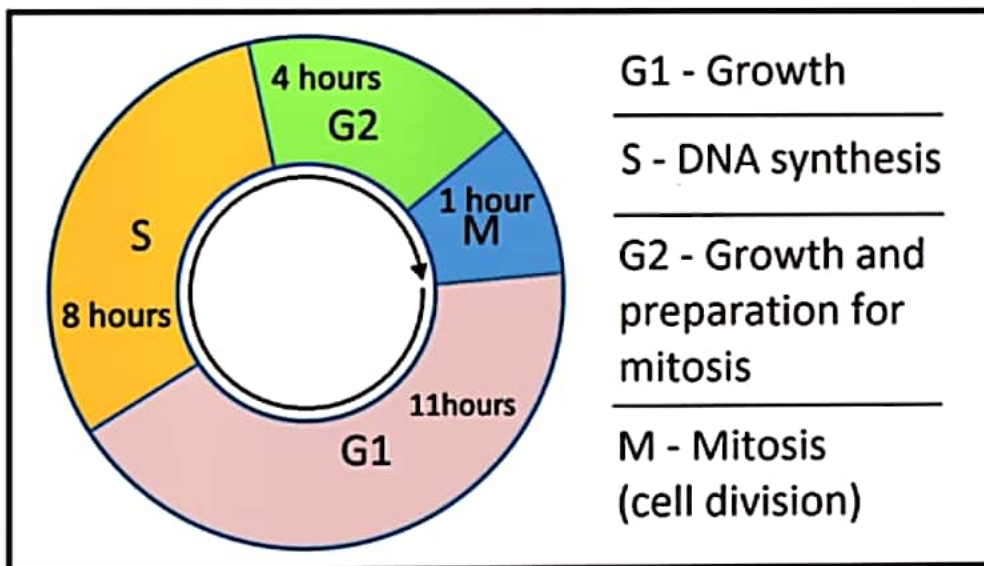
DIFFERENT PHASES OF CELL CYCLE (GO PHASE)



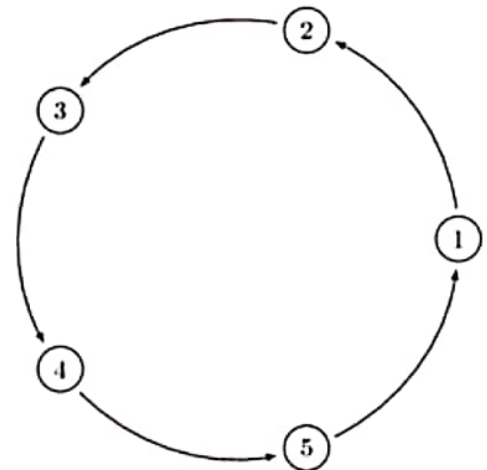
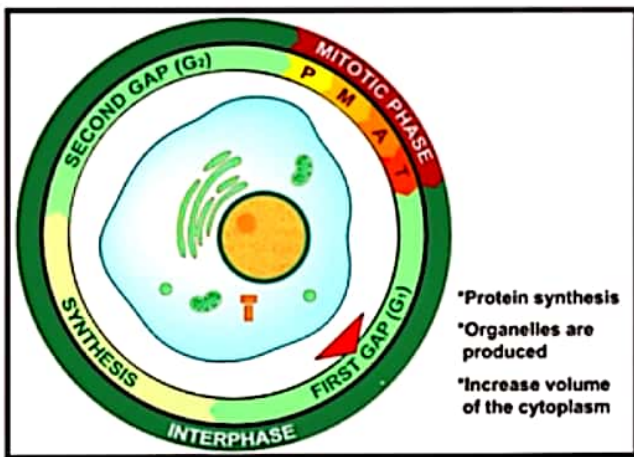
GO STAGE OF CELL CYCLE

- **ALSO KNOWN AS QUIESCENT STAGE/ RESTING PHASE/ G ZERO PHASE**
- **AFTER BEING BORN THROUGH MITOSIS, SOME CELLS ARE NOT MEANT TO DIVIDE.**
- **EXAMPLES NERVE CELLS, HEART MUSCLE CELLS.**
- **THEIR PARENT CELLS ARE "STEM CELLS" AND THE DAUGHTER CELLS FOR EXAMPLE NERVE CELLS ARE NOT MEANT FOR GROWTH AND DIVISION.**
- **NEURONS AND SOME OTHER NON-DIVIDING CELLS REMAIN IN GO STAGE THROUGHOUT THEIR LIFE TIME AND PERFORM NECESSARY FUNCTION WITHOUT EVER DIVING AND REPRODUCING THEMSELVES.**

DIFFERENT PHASES OF CELL CYCLE (G1 PHASE)



- ❖ LETS START OUR STORY FROM BIRTH – MEANS, CELL FORMATIONS BY THE DIVISION OF MOTHER CELL.
- ❖ REPRODUCTION – MEANS, DIVISION TO MAKE NEW DAUGHTER CELLS.



- ❖ **A CELL DIVISION UNDER LIGHT MICROSCOPE WAS DISCOVERED BY GERMAN BOTANIST "HUGO VON MOHL" IN 1835 AS HE WORKED OVER GREEN ALGAE *CLADOPHORA GLOMERATA* .**

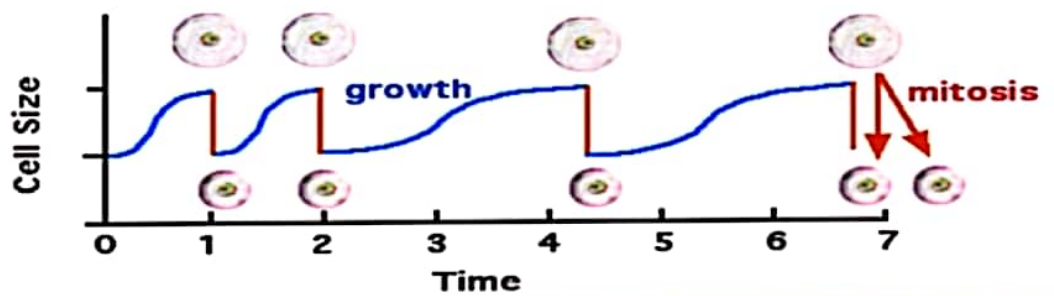


TO DIVIDE PROPERLY A CELL MUST COMPLETE THESE THREE TASKS:

1. GROWTH

2. COPY ITS GENETIC MATERIAL i.e. DNA

3. DIVISION INTO DAUGHTER CELLS



TWO MAJOR PHASES IN CELL CYCLE

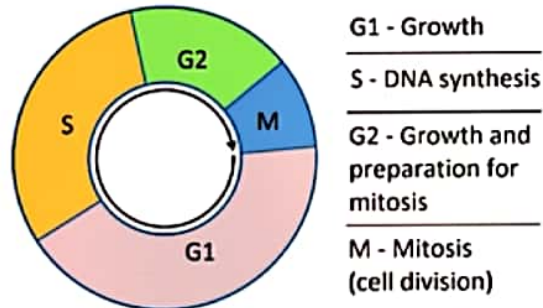
1. GROWTH

2. COPY ITS GENETIC MATERIAL i.e. DNA

3. DIVISION INTO DAUGHTER CELLS

INTERPHASE

MITOSIS



LET'S START JOURNEY OF CELL CYCLE FROM INTERPHASE...

G1 PHASE

FIRST GAP PHASE- 11hrs

S PHASE

SYNTHESIS PHASE-8 hours

G2 PHASE

SECONG GAP PHASE – 4 hours