

# GEOMETRICAL AND MECHANICAL DRAWING

**Maximum Marks: 80**

***Time Allowed: Three hours***

*(Candidates are allowed additional 15 minutes for only reading the paper.)*

*They must **NOT** start writing during this time).*

*All dimensions are in millimeters.*

*Arcs of circles less than 4mm radius may be drawn freehand.*

*Candidates are required to attempt all questions from Section A and all questions EITHER from Section B OR Section C.*

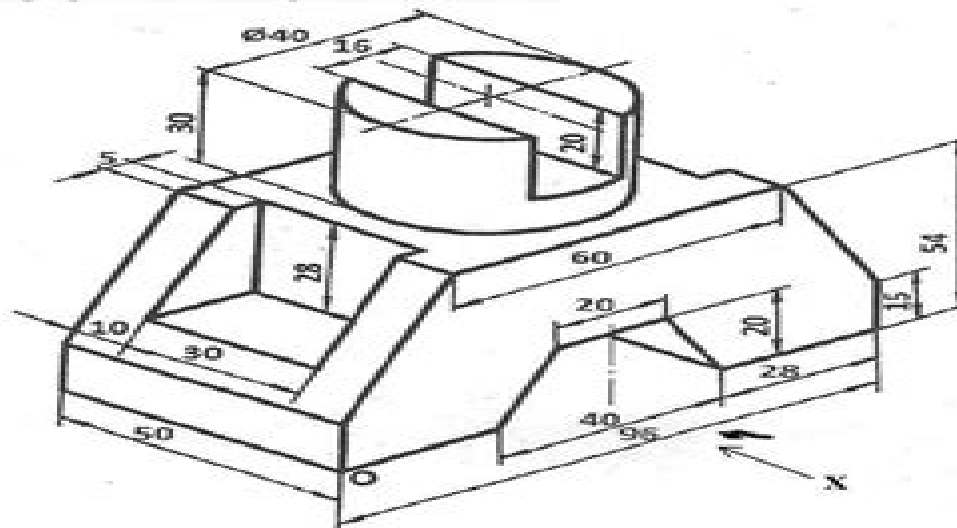
*The intended marks for questions or parts of questions are given in brackets [ ].*

**SECTION A – 25 MARKS**

### Question 1

[25]

**Figure 1** given below shows a machine block. Draw the front view, top view and side view by using first or third angle method of projection. Also, draw the symbol of method of projection which you have chosen.



**Figure 1**

# Geometrical And Mechanical Engineering Drawing

**Christian G. Meyer**



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web complete any calculations on the data table answer all lab questions on the lab do the following if the total time for onion root tip cell cycle is 1 440 minutes determine the amount of time each cell spends in prophase metaphase anaphase and telophase using the data from the data table how much time is spent in m phase and interphase

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web to find time minutes in this lab you can base your calculation on a total cell cycle of 24 hours of those 24 hours it takes about 80 minutes to go through mitosis calculate the actual time for each mitotic phase by taking your percentage of the phase and dividing it by 100 and then multiplying that by 80 minutes record your data in table 1

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web chromatin condenses into visible chromosomes the mitotic spindle also forms from microtubules the nucleolus disappears and the nuclear membrane breaks down name the stages of mitosis from longest to shortest duration interphase prophase telophase metaphase and anaphase how does the timing of the complete cell cycle differ in

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web movement through mitosis cell cycle division mitosis beads diagram prophase during this phase the chromatids and the

set of replicated chromosomes are lines up beside each other horizontally the sister chromatids have 20 beads each 5 beads on each of the four strands the replicated chromosomes had 12 beads each 3 beads on each

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web jan 24 2020 27400 one of the basic tenets of biology is that all new cells come from living cells new cells are formed by the process of cell division which includes both the division of the cell's nucleus mitosis and the division of the cell's cytoplasm cytokinesis mitotic cell divisions are used by organisms to repair tissue growth and

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web the cell cycle in eukaryotic cells the cell cycle is divided into two major phases interphase and mitosis or the mitotic phase interphase is the longest part of the cell cycle this is when the cell grows and copies its dna before moving into mitosis during mitosis chromosomes will align separate and move into new daughter cells

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web mitosis consists of four basic phases prophase metaphase anaphase and telophase some textbooks list five breaking prophase into an early phase called prophase and a late phase called prometaphase these phases occur in strict sequential order and cytokinesis the process of dividing the cell contents to make two new cells starts

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web mitosis introduction in this lab you will examine the dividing root tip cells of an onion you will examine the specimen to identify the various phases of the cell cycle to see which phases cells spend more time in and you will answer related analysis questions to further your understanding of the eukaryotic cell cycle pre lab

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web during this phase chromosomes line up in the middle mitosis worksheet the diagram below shows six cells in various phases of the cell cycle note the cells are not arranged in the order in which mitosis occurs and one of the phases of mitosis occurs twice use the diagram to answer questions 1 7 1 cells a and d show an early and a late stage

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web hands on lab activity 1 2 days in this lab students investigate if all phases of mitosis require the same amount of time for completion students respond to this research question by counting the number of onion root tip cells in the four phases of mitosis and in interphase resources

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web pre lab questions 1 provide the correct order for the stages of mitosis interphase prophase metaphase anaphase  
telophase 2 why are root tips excellent observation points for mitosis answers will vary sample answer the root tip of a plant  
contains actively dividing cells making root tips excellent observation points for mitosis

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web table 1 mitosis predictions predictions my prediction is that interphase will take the longest time of the cell cycle for  
approximately 20 hours and mitotic phase will take 4 hours supporting evidence my supporting evidence for this claim is that  
interphase is the longest phase and can take up to 18 20 hours

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web 68 minutes how do cancer cells differ in total time required for mitosis cancer cells produce 117 minutes faster than  
regular cells how do cancer cells differ from normal cells in time spent for each phase normal cells require 640 minutes  
during interphase cancer cells only need 380 for prophase cancerous cells need 15 minutes less than

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example if there were 8 percent of the cells