

Republic of the Philippines
SULTN KUDARAT STATE UNIVERSITY
College of Industrial Technology
MIDTERM EXAM IN DT 211
ARCHITECTURAL DRAFTING AND DESIGN 1
FOR BINDTECH- DRAFTING TECH.2
2ND Semester, S.Y. 2025 – 2026



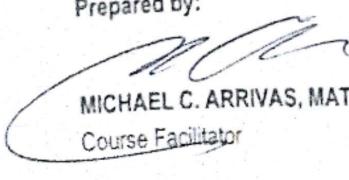
Instruction: Read each question carefully and select the correct answer. Use the answer sheet for your answers.

1. What is a floor plan?
 - A. A map showing the layout of rooms viewed from above
 - B. A 3D model of a structure
 - C. A design of the foundation only
 - D. A drawing showing the exterior view of a building
2. Which architectural symbol represents a door swing?
 - A. A curved line connecting wall and door
 - B. A straight solid line
 - C. A circle with cross
 - D. A dashed rectangle
3. Why is a floor plan essential in the design process?
 - A. It determines wall thickness
 - B. It defines spatial arrangement and flow between areas
 - C. It replaces all other drawings
 - D. It calculates the cost of materials
4. Why must dimensions be shown on floor plans?
 - A. To show color preferences
 - B. To communicate actual measurements and construction limits
 - C. To display structural loads
 - D. To identify furniture placement
5. A client wants an open kitchen-living layout. What design principle applies?
 - A. Function-based zoning
 - B. Load calculation
 - C. Division of spaces
 - D. Hidden structure design
6. You are drawing a 1:100 scale floor plan. A 5-meter wall should be drawn as:
 - A. 10 cm
 - B. 1 cm
 - C. 5 cm
 - D. 50 cm
7. A bedroom door blocks circulation when opened. What error occurred?
 - A. Poor space planning
 - B. Over-detailing
 - C. Missing labels
 - D. Misaligned dimensioning
8. Which design option provides better ventilation?
 - A. Windows on adjacent walls
 - B. Fixed glass only
 - C. One small window on a single wall
 - D. No windows
9. You are designing a small studio unit. What should you prioritize first?
 - A. Roof design
 - B. Functional zoning and space flow
 - C. Furniture type
 - D. Color palette
10. If you were to redesign a crowded floor plan, how could you make it efficient?
 - A. Combine related areas and optimize movement
 - B. Add random partitions
 - C. Remove all doors
 - D. Reduce hallway widths
11. What is an elevation in drafting?
 - A. A vertical view showing exterior faces
 - B. A top view from above
 - C. A 3D model
 - D. A horizontal cut through the structure
12. Which direction usually corresponds to the front elevation?
 - A. Direction of main entry
 - B. South
 - C. North
 - D. Rear façade
13. Why are multiple elevations prepared?
 - A. To show ceiling height only
 - B. To reduce other drawings
 - C. To illustrate each exterior side of the building
 - D. For color selection
14. Why are symbols and notes important on elevation drawings?
 - A. To give accurate descriptions of finishes and materials
 - B. They show lighting
 - C. They are only decorative
 - D. They replace floor plans

15. A designer wants to show window height relative to floor level. Which view is used?
- A. Elevation
 - B. Section
 - C. Site plan
 - D. Floor plan
16. You need to indicate brick cladding on the west wall. How do you show this in elevation?
- A. Use material hatch or texture symbol
 - B. Use center lines
 - C. Leave blank
 - D. Write "wall" only
17. If a window shown on the floor plan doesn't appear in elevation, what's wrong?
- A. The elevation drawing is incomplete
 - B. The scale is wrong
 - C. The elevation is reversed
 - D. The floor plan is too detailed
18. Which elevation design is most sustainable for a tropical home?
- A. Small windows on west side, shaded openings
 - B. No ventilation
 - C. Full concrete walls
 - D. Large south-facing glass walls
19. You are designing a facade for visual balance. Which principle would you apply?
- A. Random spacing
 - B. Repetition only
 - C. Symmetry and proportion
 - D. Contrast without order
20. How would you modify the elevation to improve natural lighting?
- A. Use opaque materials
 - B. Reduce all openings
 - C. Paint darker colors
 - D. Add larger glazed openings on north side
21. What does a section represent?
- A. A vertical cut showing interior construction
 - B. A top view
 - C. A roof projection
 - D. A 3D sketch
22. Which symbol marks the location of the sectional cut on a plan?
- A. Grid bubble
 - B. Section line with arrows
 - C. Leader line
 - D. Dimension line
23. Why are sections drawn in architectural drafting?
- A. To reveal interior details hidden in other views
 - B. To replace elevations
 - C. To reduce plan sizes
 - D. For presentation only
24. Why is scale important in sectional drawings?
- A. To maintain proportional relationships among elements
 - B. To color walls
 - C. For artistic impression
 - D. To enlarge windows
25. You need to show the layers of a concrete slab. Which drawing type will you use?
- A. Detail note
 - B. Plan
 - C. Section
 - D. Elevation
26. A stair detail showing riser, tread, and landing is best illustrated by:
- A. Perspective
 - B. Section
 - C. Site plan
 - D. Elevation
27. The ceiling line in section doesn't match the height in the elevation. What's the likely issue?
- A. Mismatch in vertical dimensions
 - B. Missing labels
 - C. Wrong scale
 - D. Incorrect hatch
28. Which section shows construction clarity and minimal clutter?
- A. Clearly labeled materials and poche
 - B. Overlapping hatches
 - C. Missing notes
 - D. Complex shading
29. How would you improve a section drawing for presentation?
- A. Add textures and line weights to distinguish materials
 - B. Use random colors
 - C. Omit labels
 - D. Remove dimensions
30. You are designing a complex roof structure. Which section type would you prepare?
- A. Offset section
 - B. Half section
 - C. Full section only
 - D. Broken section
31. What is the standard height of a residential door?
- A. 2.10 m
 - B. 2.00 m
 - C. 2.40 m
 - D. 1.80 m
32. What symbol identifies a window on a floor plan?
- A. Break in wall line with thin double lines
 - B. Circle symbol
 - C. Cross mark
 - D. Thick continuous line

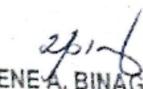
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A
B
C.
D.
- 33. Why are windows essential in building design?
 - A. To increase wall area
 - B. For natural light and ventilation
 - C. To decorate interiors
 - D. To control noise only
 - 34. Why is proper door placement important?
 - A. It saves materials
 - B. It affects circulation and accessibility
 - C. It reduces ceiling height
 - D. It increases wall length
 - 35. You are designing a classroom with strong sunlight on the west side. What window type is ideal?
 - A. Fixed glass
 - B. Small shaded awning windows
 - C. Large glass picture windows
 - D. None
 - 36. A designer needs to specify fire-resistant doors. Which material is suitable?
 - A. WPC
 - B. Wood
 - C. Aluminum
 - D. UPVC
 - 37. A door in the corridor opens against another. What design flaw occurred?
 - A. Poor door swing coordination
 - B. Oversized hinges
 - C. Missing frame
 - D. Wrong material
 - 38. Which window design provides best energy efficiency?
 - A. Wooden casement without seal
 - B. Double-glazed UPVC with air gap
 - C. Single-pane aluminum
 - D. Open louver
 - 39. You are designing a façade with modern appeal. Which window style will you choose?
 - A. Fixed glass panel with aluminum frame
 - B. Steel-barred
 - C. Wooden double-hung
 - D. Arched colonial
 - 40. To improve indoor air quality through design, you would:
 - A. Seal all openings
 - B. Block airflow
 - C. Place operable windows on opposite walls for cross-ventilation
 - D. Use small fixed windows

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