

**C-8370**

**Sub. Code**

**97911**

**DIPLOMA EXAMINATION, APRIL 2026**

**First Semester**

**Interior Design**

**PRINCIPLES AND ELEMENTS OF INTERIOR DESIGN**

**(2023 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 1 = 10)

Answer **all** questions.

1. Which type of balance is achieved when elements on both sides of a central line are identical?
  - (a) Radial balance
  - (b) Symmetrical balance
  - (c) Asymmetrical balance
  - (d) Occult balance
  
2. Ergonomics primarily focuses on
  - (a) Aesthetic appeal
  - (b) Structural integrity
  - (c) Acoustic properties
  - (d) Human comfort and efficiency

3. The inclusion of windows in wall planes is important for
  - (a) Structural integrity
  - (b) Visual interest
  - (c) Light and ventilation
  - (d) Reducing costs
  
4. Openings in wall planes should be articulated to:
  - (a) Reduce construction time
  - (b) Enhance visual and functional aspects
  - (c) Simplify design
  - (d) Reduce costs
  
5. False ceilings are primarily installed to:
  - (a) Conceal electrical wiring and ducts
  - (b) Add height to a room
  - (c) Reduce construction time
  - (d) Support heavy loads
  
6. The visual impact of a vaulted ceiling is typically
  - (a) Simple and modern
  - (b) Traditional and rustic
  - (c) Complex and ornate
  - (d) Dramatic and spacious

7. Which type of flooring is known for its intricate patterns made from small pieces of colored stone or glass?
- (a) Hardwood
  - (b) Vinyl
  - (c) Mosaic tile
  - (d) Laminate
8. A chevron pattern in flooring creates a visual effect that is
- (a) Circular
  - (b) Zigzag
  - (c) Linear
  - (d) Radial
9. What is the golden section ratio approximately equal to?
- (a) 1 : 1
  - (b) 2 : 1
  - (c) 1.618 : 1
  - (d) 1.414 : 1
10. Which design principle is concerned with the repetition of visual elements?
- (a) Rhythm
  - (b) Harmony
  - (c) Unity
  - (d) Balance

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain the concept of asymmetrical balance and provide examples of its use in design.

Or

- (b) Describe the relationship between harmony, unity, and variety in design.

12. (a) Explain the aesthetic and functional benefits of incorporating niches and alcoves in wall planes.

Or

- (b) Explain the significance of tilting the vertical axis of wall planes in Design.

13. (a) Explain the significance of articulating skylights in roof design and their impact on interior spaces.

Or

- (b) Discuss the various materials used for false ceilings and their respective advantages.

14. (a) Discuss the advantages and disadvantages of using stone flooring in residential spaces.

Or

- (b) Discuss the impact of graphic patterns on the visual perception of interior spaces.

15. (a) Explain how wall planes can be used to create focal points within a space.

Or

- (b) Describe the significance of floor planes in defining zones and creating continuity in interior spaces.

**Part C**

(5 × 8 = 40)

Answer **all** questions, choosing either (a) or (b).

16. (a) Evaluate the importance of anthropometry and ergonomics in the design of furniture.

Or

- (b) Compare and contrast the use of scale and proportion in traditional and modern design practices.

17. (a) Discuss the impact of using different types of doors, windows, and ventilators on building design and user experience.

Or

- (b) Analyze the significance of natural patterns and textures in masonry walls for creating sustainable and aesthetically pleasing designs.

18. (a) Discuss the role of different lighting types in enhancing the ambiance and functionality of spaces with false ceilings.

Or

- (b) Analyze the visual impact of different types of roof planes, including flat, hip, gable and butterfly roofs.

19. (a) Discuss the role of skirting, molding, and embossing in enhancing the finish and detail of flooring installations.

Or

- (b) Explain the process of selecting and installing floor finishes, including considerations for durability, maintenance, and aesthetics.

20. (a) Evaluate the role of human dimensions and ergonomic principles in achieving comfortable and functional interior designs.

Or

- (b) Discuss the principles and methods of integrating wall, floor, and roof planes to enhance both aesthetics and functionality in interior design.
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C-8371

Sub. Code

97912

**DIPLOMA EXAMINATION, APRIL 2026**

**First Semester**

**Interior Design**

**INTERIOR MATERIALS AND FINISHES**

**(2023 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 1 = 10)

Answer **all** questions.

1. Which type of wood is generally used for making Particle boards
  - (a) Hardwood
  - (b) Softwood
  - (c) Both hardwood and softwood
  - (d) Neither hardwood nor softwood
  
2. \_\_\_\_\_ is the process used to prepare plain flat sheets of Plastic
  - (a) Rolling
  - (b) Pressing
  - (c) Moulding
  - (d) Calendering
  
3. Which flooring material is suitable for creating a seamless, modern look due to its poured-in-place nature?
  - (a) Hardwood
  - (b) Terrazzo
  - (c) Rubber
  - (d) Slate

4. Which type of flooring is best for areas with high moisture, such as bathrooms and kitchens?  
(a) Laminate                      (b) Cork  
(c) Ceramic tile                (d) Hardwood
5. Which material is most suitable for creating intricate designs in false ceilings?  
(a) Gypsum board                (b) Metal sheet  
(c) Thermacol (EPS)            (d) Glass
6. Which type of suspended ceiling design facilitates convenient access to utilities and mechanical systems located above the ceiling?  
(a) Floating ceiling            (b) Fixed panel ceiling  
(c) Open beam ceiling        (d) Exposed grid ceiling
7. Which material is not typically used for wall paneling in interiors?  
(a) Asphalt                        (b) Cork sheets  
(c) Fiber glass wool            (d) Laminated plywood
8. Which finishing technique enhances the natural grain and color of wooden planks?  
(a) Texturing                      (b) Staining  
(c) Painting                        (d) Varnishing
9. Formation of bubbles on painted surface is known as  
(a) Flaking                        (b) Blistering  
(c) Bloom                         (d) Fading
10. In which of the below, it is not necessary to remove existing paint to apply a new one?  
(a) Aluminium                  (b) Oil paints  
(c) Enamel paints                (d) Cement paints

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) What aspects of leather make it a sophisticated addition to interior design?

Or

- (b) Explain the properties and uses of softwood in interior design.

12. (a) Discuss the importance of selecting appropriate floor tiles for spaces used by physically.

Or

- (b) Outline the steps involved in laying marble flooring.

13. (a) What are the benefits of using Thermocol for false ceilings?

Or

- (b) Describe the construction process of a Gypsum board false ceiling?

14. (a) How does fabric contribute to sound and thermal insulation in wall paneling?

Or

- (b) What are the advantages of using laminate panels for wall coverings?

15. (a) Explain the different types of clear coatings used in interior finishes.

Or

- (b) Describe the properties of plastic emulsion and their typical uses.

**Part C**

(5 × 8 = 40)

Answer **all** questions, choosing either (a) or (b).

16. (a) Discuss in detail the various types of synthetic materials used in interior finishes, including their properties, advantages and applications.

Or

- (b) What are the limitations and potential drawbacks of using particle board in interior applications?

17. (a) Describe the process and considerations involved in installing hardwood flooring in a residential building.

Or

- (b) What are the main types of resilient flooring and what are their primary properties?

18. (a) What are the aesthetic and acoustic benefits of using wood for false ceilings? How does wood enhance the overall ambiance of a space?

Or

- (b) Describe the construction and uses of Domes, vaults and Special ceilings in interior design.

19. (a) How can different materials be combined in wall paneling systems to maximize both sound and thermal insulation? Provide examples of effective material combinations and their benefits.

Or

- (b) Compare the installation process of cork sheets and fiberglass wool for wall paneling.

20. (a) Describe the considerations and steps involved in choosing and applying paints for different interior surfaces.

Or

- (b) What are the distinctive properties and uses of bituminous, luminous, fire retardant and corrosion-resting paints?

**C-8372**

**Sub. Code**

**97913**

**DIPLOMA EXAMINATION, APRIL 2026**

**First Semester**

**Interior Design**

**BUILDING SERVICES AND INTEGRATION**

**(2023 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 1 = 10)

Answer **all** questions.

1. What is the primary function of a check valve in a plumbing system?
  - (a) To control water flow rate
  - (b) To filter impurities from water
  - (c) To regulate water temperature
  - (d) To prevent backflow of water
  
2. Which of the following systems is commonly used for plumbing in multi-storied buildings?
  - (a) One-pipe system (b) Two-pipe system
  - (c) Three-pipe system (d) Four-pipe system
  
3. Which type of air conditioner is typically used for single rooms?
  - (a) Window type air conditioner
  - (b) Split air conditioner
  - (c) Central air conditioner
  - (d) Packaged air conditioner

4. What type fire extinguisher is suitable for electrical fires?
- (a) Water extinguisher
  - (b) Foam extinguisher
  - (c) Carbon dioxide  $CO_2$  extinguisher
  - (d) Wet chemical extinguisher
5. What is the standard unit of sound absorption coefficient?
- (a) Decibel
  - (b) Hertz
  - (c) Pascal
  - (d) Sabin
6. What does the term 'reverberation' refer to in room acoustics?
- (a) Continuous reflection of sound
  - (b) Echo effect
  - (c) Noise cancellation
  - (d) Soundproofing
7. Which device is used to protect an electrical circuit from damage caused by overload or short circuit?
- (a) Transformer
  - (b) Resistor
  - (c) Fuse
  - (d) Capacitor
8. What does the term "three-phase" refer to in electrical system?
- (a) Three wires used for grounding
  - (b) Three separate circuits
  - (c) Three power sources
  - (d) Three alternating currents with a phase difference
9. What color of light is generally preferred for reading and studying?
- (a) White light
  - (b) Red light
  - (c) Blue light
  - (d) Yellow light

10. What is a luminaries in the context of interior lighting?
- (a) A type of light bulb
  - (b) A complete lighting unit
  - (c) A type of lampshade
  - (d) A lighting control system

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Discuss the role of intercepting chambers in a plumbing system.

Or

- (b) Describe the components and working of a solar water heating system in domestic hot water supply.

12. (a) Explain the working principles of a fan coil unit in an air conditioning system.

Or

- (b) Discuss the importance of fire safety standards in building design. Provide examples of common standards.

13. (a) Define sound absorption and its importance in room acoustics.

Or

- (b) Explain the term 'echo' and how it differs from reverberation.

14. (a) Outline the steps involved in installing a main electrical distribution board in a building.

Or

- (b) Describe the different types of wires used electrical systems.

15. (a) What are the keys features of task lighting and where is it commonly used?

Or

- (b) What are the benefits of incorporating day lighting in interior spaces?

**Part C**

(5 × 8 = 40)

Answer **all** questions, choosing either (a) or (b).

16. (a) What are the key considerations in the design and installation of a drainage system in multi-storied building? Discuss the materials and fixtures used.

Or

- (b) Describe the types and functions of sanitary fittings commonly used in modern buildings.
17. (a) Describe the mechanism of fire spread in buildings and the measures that can be taken to prevent it. Include a discussion on fire safety standards and installations.

Or

- (b) Describe the principles and components of a central air conditioning system. How is it different from a split air conditioning system?
18. (a) Discuss the key factors in choosing materials for sound insulation in buildings. Provide examples of commonly used materials.

Or

- (b) Discuss the acoustical requirements for a classroom and how they can be achieved.
19. (a) Discuss the various protective devices used in electrical installations. Explain their functions and importance in ensuring safety.

Or

- (b) Explain the principles and applications of single-phase electrical supplies in buildings.
20. (a) Discuss the psychological effects of color in lighting and how it can be used to create different atmospheres.

Or

- (b) Compare and contrast the different types of artificial lighting technologies (e.g., LED, fluorescent, incandescent) and their uses in interior spaces.