

C-2796

Sub. Code

97911

DIPLOMA EXAMINATION, APRIL 2024

First Semester

Interior Design

PRINCIPLES OF ELEMENTS AND INTERIOR DESIGN

(2023 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the questions.

1. Which ancient Greek mathematician and philosopher is credited with the first recorded description of the golden section?
(a) Euclid (b) Pythagoras
(c) Archimedes (d) Aristotle
2. What does anthropometry primarily study?
(a) Animal behaviour
(b) Human body measurements and proportions
(c) Geological formations
(d) Plant growth patterns
3. What is the term for the technique of arranging bricks or stones in a pattern that resembles the scales of a fish?
(a) Herringbone (b) Stretcher bond
(c) Flemish bond (d) Running bond

4. Which of the following materials is commonly used for cladding in modern architectural designs?
- (a) Straw (b) Marble
(c) Bamboo (d) Adobe
5. Which type of roof aperture is designed to allow for the natural ventilation of a building while preventing rain from entering?
- (a) Dormer window (b) Roof hatch
(c) Roof vent (d) Roof light
6. Which lighting technology uses semiconductors to produce light and is often found in modern LED bulbs?
- (a) Incandescent lighting
(b) Fluorescent lighting
(c) Halogen lighting
(d) Solid-state lighting (LED)
7. Which type of flooring is known for its ability to replicate the look of natural stone, wood, or tile while offering easy maintenance?
- (a) Laminate flooring
(b) Marble flooring
(c) Cork flooring
(d) Terracotta flooring
8. Which type of floor covering is made from natural or synthetic fibers and is known for its soft texture and warmth underfoot?
- (a) Tile flooring (b) Laminate flooring
(c) Carpet flooring (d) Vinyl flooring

9. Which element of design relates to the use of light and shadow in a space to create depth and dimension?
- (a) Space (b) Line
(c) Color (d) Form
10. What principle of design encourages the repetition of similar elements, shapes, or colors throughout a space to create unity and cohesiveness?
- (a) Contrast (b) Rhythm
(c) Variety (d) Harmony

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Distinguish between rhythm and emphasis.
Or
(b) What are proportions? Brief out.
12. (a) What are cornices and mouldings? Brief out.
Or
(b) Write about the types of materials used in doors.
13. (a) What is meant by roof apertures? Brief out.
Or
(b) Write about the visual impact of roof planes.
14. (a) List the significance of tile flooring.
Or
(b) What is embossing? Brief out.

15. (a) What is the role of lighting in interior design?

Or

(b) How do you use patterns in interior design?

Part C

(5 × 8 = 40)

Answer **all** questions.

16. (a) What is Anthropometry? Explain.

Or

(b) Describe the human standard dimensions for ergonomics.

17. (a) Highlight the effect of tilting the vertical axis of wall planes.

Or

(b) Illustrate the use of wall planes to create architecture effects.

18. (a) Write a detailed note on various types of lighting.

Or

(b) Explain the types of false ceiling.

19. (a) Write about the aesthetic effects created by flooring materials.

Or

(b) Illustrate the importance of floor coverings.

20. (a) Describe the seven elements of interior design.

Or

(b) Highlight the importance of texture in interior design.

C-2797

Sub. Code

97912

DIPLOMA DEGREE EXAMINATION, APRIL 2024

First Semester

Interior Design

INTERIOR MATERIALS AND FINISHES

(2023 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the questions.

1. What is the standard thickness of a plywood sheet typically used for interior wall panelling?
 - (a) 1/4 inch (6.35 mm)
 - (b) 1 inch (25.4 mm)
 - (c) 3/4 inch (19.05 mm)
 - (d) 2 inches (50.8 mm)

2. What is the main advantage of injection moulding over other manufacturing processes?
 - (a) Low tooling costs
 - (b) Limited design flexibility
 - (c) Slow production speed
 - (d) High material waste

3. What is one advantage of using ceramic tile as a floor covering?
- (a) It requires frequent refinishing
 - (b) It is not resistant to moisture
 - (c) It offers a wide range of design options
 - (d) It is easily damaged by heavy furniture
4. What is the typical shape of mosaic floor tiles that come pre-arranged on a mesh backing for easy installation?
- (a) Square (b) Hexagonal
 - (c) Rectangular (d) Irregular
5. Which material is commonly used to construct the panels or tiles for false ceilings?
- (a) Concrete (b) Plywood
 - (c) Gypsum (d) Steel
6. Which material is commonly used to create a “starry night” effect on a stretch ceiling, simulating a night sky with stars?
- (a) Fibreboard (b) Stucco
 - (c) Polystyrene (d) Fibre optics

7. What is the advantage of using wooden planks for sound insulation compared to other materials?
- (a) Lower cost
 - (b) Higher reflectivity of sound
 - (c) Lightweight and easy installation
 - (d) Greater fire resistance
8. In addition to thermal insulation, what other property makes cork an attractive choice for sustainable building materials?
- (a) High cost
 - (b) Low availability
 - (c) Biodegradability and renewability
 - (d) Poor fire resistance
9. Which type of paint is suitable for creating detailed artwork on canvas?
- (a) Spray paint
 - (b) Enamel paint
 - (c) Oil paint
 - (d) Epoxy paint
10. Which type of paint is used to mark traffic lanes, parking lots, and roadways?
- (a) Primer paint
 - (b) Epoxy paint
 - (c) Stain paint
 - (d) Watercolour paint

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Differentiate between laminated wood and particle boards.

Or

- (b) Write the uses of different types of fabrics.

12. (a) Write a brief on cork tiles.

Or

- (b) List the properties of cement tiles.

13. (a) Distinguish between the construction of false ceiling using metal sheets and wood.

Or

- (b) Outline the importance of construction of false ceiling using glass.

14. (a) Outline the various materials used for wall panelling.

Or

- (b) How is laminated plywood is used for sound insulation?

15. (a) What are fire retardant paints? Brief out.

Or

(b) Write the properties and uses of luminous paints.

Part C

(5 × 8 = 40)

Answer **all** questions.

16. (a) Outline the different types of glass and their properties.

Or

(b) Discuss about the different manufacturing methods of plastics.

17. (a) Describe the properties of marble floor coverings and the process of laying.

Or

(b) Elaborate on the properties and uses of ceramic glazed tiles.

18. (a) Describe process of construction of false ceiling using plaster of paris.

Or

(b) Explain about construction of domes.

19. (a) Discuss about the usage of wooden planks for sound insulation.

Or

(b) What is fibre glass wool? How it is used as wall panel for thermal insulation?

20. (a) Describe the properties and uses of plastic emulsions.

Or

(b) Write a detailed note on special purpose paints.

C-2798

Sub. Code

97913

DIPLOMA EXAMINATION, APRIL 2024

First Semester

Interior Design

BUILDING SERVICES AND INTEGRATION

(2023 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the questions.

1. Which of the following is a primary source of freshwater for municipal water supply systems?
(a) Seawater (b) Groundwater
(c) Rainwater (d) Distilled water

2. Which mechanism is commonly used in modern flushing cisterns to control the amount of water used in each flush?
(a) Push-button dual flush
(b) Lever handle
(c) Chain pull
(d) Foot pedal

3. In what type of climate is a heat pump air conditioner most effective for both cooling and heating purposes?
(a) Extremely arid (b) Mild and temperate
(c) Hot and humid (d) Cold and dry

4. What is the recommended method of extinguishing a grease fire in the kitchen?
 - (a) Smothering it with a wet cloth
 - (b) Using a fire extinguisher
 - (c) Pouring water on it
 - (d) Blowing on the flames

5. What is the phenomenon where certain frequencies of sound are reinforced or cancelled out in a room due to interference patterns?
 - (a) Resonance
 - (b) Absorption
 - (c) Diffraction
 - (d) Standing waves

6. Which material is often used for soundproofing doors and windows to block outdoor noise?
 - (a) Rubber
 - (b) Concrete
 - (c) Ceramic
 - (d) Fabric

7. Which protective device is used to limit the voltage supplied to sensitive electronic equipment during voltage spikes or surges?
 - (a) Circuit breaker
 - (b) Fuse
 - (c) Voltage stabilizer
 - (d) Surge protector

8. In a residential electrical panel, which section typically contains circuit breakers or fuses for individual circuits, such as lighting or appliances?
 - (a) Service entrance
 - (b) Main switch
 - (c) Distribution board
 - (d) Subpanel

9. Which type of artificial lighting is often used to highlight artwork, architectural features, or decorative elements in a room?
 - (a) General lighting
 - (b) Task lighting
 - (c) Accent lighting
 - (d) Decorative lighting

10. In what type of environment is the use of cool white lighting often preferred for its ability to promote alertness and productivity?
- (a) Bedrooms (b) Office spaces
(c) Restaurants (d) Art galleries

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) What is caulking compounds? Brief out.
Or
(b) Outline the importance of ventilation of sewers.
12. (a) Write a brief note on fan coiled systems of air conditioners.
Or
(b) List the concepts in fire protection.
13. (a) What is reverberation? Explain about reverberation time.
Or
(b) Write about the absorbing materials used in reverberation.
14. (a) What is single phase supply? Highlight its importance.
Or
(b) Write a brief note on ISI specifications.
15. (a) Write short note on day lighting.
Or
(b) Write about the effect of colour in lighting.

Part C

(5 × 8 = 40)

Answer **all** questions.

16. (a) Elaborate on the piping system of domestic buildings.

Or

- (b) Describe about the size of drain pipes and materials.

17. (a) Outline the air conditioning system for different types of buildings.

Or

- (b) Write a detailed note on automatic water sprinkler system.

18. (a) Define Sabine's formula. Explain.

Or

- (b) Write a detailed note on sound insulation materials.

19. (a) Explain about the electrical wiring for building interiors.

Or

- (b) Describe about main and distribution boards.

20. (a) Elaborate on artificial lighting.

Or

- (b) Write a detailed note on luminaries and fixtures.