

**C-1074**

**Sub. Code**

**97911**

**DIPLOMA EXAMINATION, NOVEMBER 2023**

**Non Semester**

**Interior Design**

**PRINCIPLES AND ELEMENTS OF INTERIOR DESIGN**

**(2018 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What are the types of false ceiling?
2. What do you mean by ratio and proportions?
3. What are the types of balance?
4. What are point and line?
5. What are skylights?
6. Brief the importance of false ceiling finishes.
7. Mention any two principles of design.
8. What is the importance of graphic patterns?
9. What are the materials used for flooring?
10. Relate the anthropometry with interior design.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) What are doors? Brief any one with the diagram.

Or

- (b) Brief on various types of relationship between spaces.

12. (a) Write note on ventilators.

Or

- (b) Differentiate between unity and variety of design.

13. (a) Explain resilient flooring.

Or

- (b) Write shortly on any one type of lighting.

14. (a) Outline the importance of natural lighting.

Or

- (b) List the types of tiles

15. (a) Write a note on task lighting.

Or

- (b) Relate the ergonomics in a design of interiors.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain flooring and floor covering with suitable example.

Or

- (b) Elaborate on floor finishes and its types.
17. (a) Explain anthropometry and ergonomics of a kitchen.

Or

- (b) Describe the construction details for floor planes with suitable example.
18. (a) Explain artificial lighting and its importance.

Or

- (b) Compare the natural patterns and textures obtained in masonry walls.
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**C-1431**

**Sub. Code**

**97911**

**DIPLOMA EXAMINATION, NOVEMBER 2023.**

**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** the questions.

1. In the golden section, what is the approximate value of the golden ratio ( $\phi$ )?  
(a) 1.414                      (b) 2.618  
(c) 3.142                      (d) 1.618
2. Which of the following body measurements is often used in clothing design and sizing?  
(a) Barometric pressure  
(b) Astronomical distances  
(c) Inseam length  
(d) Wind velocity
3. Which natural material is often used in masonry walls to create a rustic and textured appearance?  
(a) Glass                      (b) Metal  
(c) Stone                      (d) Plastic

4. What type of architectural articulation involves the use of decorative features such as columns, cornices, and mouldings to create a sense of rhythm and balance in a building's design?
- (a) Structural articulation
  - (b) Ornamental articulation
  - (c) Passive articulation
  - (d) Transparent articulation
5. Which of the following design elements can be used to articulate skylights and roof apertures for aesthetic and functional purposes?
- (a) Solar panels      (b) Louvers or shades
  - (c) Roof shingles      (d) Concrete beams
6. Which type of lighting creates a soft and diffused illumination, often used for providing ambient lighting in living rooms and bedrooms?
- (a) Spotlighting      (b) Task lighting
  - (c) Pendant lighting      (d) Indirect lighting
7. Which flooring material is known for creating a classic and elegant aesthetic with its natural grain patterns?
- (a) Concrete      (b) Linoleum
  - (c) Hardwood      (d) Vinyl
8. Which of the following is a type of floor finish commonly used to protect and enhance the appearance of hardwood floors?
- (a) Linoleum      (b) Carpet
  - (c) Polyurethane      (d) Cork

9. Which principle of design is concerned with the relationship of elements to one another in terms of size, quantity, and proportion?  
(a) Emphasis (b) Unity  
(c) Contrast (d) Proportion
10. What element of design refers to the use of recurring visual patterns or motifs in an interior space?  
(a) Balance (b) Harmony  
(c) Rhythm (d) Contrast

**Part B** (5 × 5 = 25)

Answer **all** questions.

11. (a) Differentiate between symmetrical and radial balance.  
Or  
(b) Write short note on occult.
12. (a) What are niches and alcoves? Brief out.  
Or  
(b) Write about the types of materials used in windows.
13. (a) What is false ceiling? Brief out.  
Or  
(b) List the significance of various types of lighting.
14. (a) List the significance of mosaic flooring.  
Or  
(b) What is skirting? Brief out.
15. (a) How do you create harmony in a room?  
Or  
(b) Discuss about the importance of negative space in interior design.

**Part C**

(5 × 8 = 40)

Answer **all** questions.

16. (a) Elaborate on golden section.  
Or  
(b) Describe the human standard dimensions for human activities.
17. (a) Write a detailed note on articulation of openings in wall planes.  
Or  
(b) Explain the process of obtaining natural patterns and textures in masonry walls.
18. (a) Outline the different types of roof and their visual impact.  
Or  
(b) Describe about the articulation of skylights.
19. (a) Explain the visual effects created by graphic patterns.  
Or  
(b) Illustrate the importance of floor finishes.
20. (a) Describe the seven principles of interior design.  
Or  
(b) Elaborate on the use of color in interior design.
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**C-1432**

**Sub. Code**

**97912**

**DIPLOMA EXAMINATION, NOVEMBER 2023.**

**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. Plywood is known for its strength and durability due to which feature?
  - (a) Its lightweight construction
  - (b) Its layered structure with alternating grain directions
  - (c) Its soft and easily breakable composition
  - (d) Its high water content
  
2. Which of the following is NOT a typical component of an injection moulding machine?
  - (a) Mould
  - (b) Extruder
  - (c) Heater bands
  - (d) Conveyor belt
  
3. What is the primary material used in the production of vinyl flooring?
  - (a) Wool
  - (b) Ceramic
  - (c) PVC
  - (d) Hardwood



4. What type of floor tile is known for its durability and resistance to moisture, making it suitable for bathrooms and kitchens?
  - (a) Porcelain
  - (b) Glass
  - (c) Mosaic
  - (d) Cork
  
5. What is the primary purpose of a false ceiling in interior design?
  - (a) To lower the height of a room
  - (b) To create additional storage space
  - (c) To enhance aesthetics, hide utilities, and improve acoustics
  - (d) To provide structural support to the building
  
6. What type of ceiling is designed to resemble the vaulted ceiling of a cathedral with its curved shape?
  - (a) Tray ceiling
  - (b) Exposed beam ceiling
  - (c) Dome ceiling
  - (d) Drop ceiling
  
7. Which material is commonly used for soundproofing walls and ceilings in residential and commercial spaces?
  - (a) Glass
  - (b) Plywood
  - (c) Concrete
  - (d) Fibre glass wool
  
8. How does cork's cellular structure contribute to its thermal insulation properties?
  - (a) It allows for rapid heat transfer
  - (b) It traps air, creating a thermal barrier
  - (c) It reflects heat away from the surface
  - (d) It conducts heat efficiently

9. Which type of paint is typically used for painting on exterior walls and surfaces?  
(a) Oil-based paint    (b) Watercolour paint  
(c) Acrylic paint      (d) Gouache paint
10. Which type of paint is designed to create a chalkboard surface for writing with chalk?  
(a) Epoxy paint        (b) Enamel paint  
(c) Latex paint        (d) Chalkboard paint

**Part B** (5 × 5 = 25)

Answer **all** the questions

11. (a) Distinguish between softwood and hardwood.
- Or
- (b) List the uses of different types of synthetic materials.
12. (a) Differentiate between linoleum floor covering and rubber.
- Or
- (b) Illustrate the importance of laying floor tiles for physically handicapped.
13. (a) Write short note on gypboard as false ceiling.
- Or
- (b) Write a brief note on construction of vaults.
14. (a) What is wall panelling? Brief out.
- Or
- (b) What is cork sheets? How it is used as thermal insulation.

15. (a) Distinguish between distempers and plastic emulsions.

Or

- (b) Write a short note on defects in painting.

**Part C** (5 × 8 = 40)

Answer **all** questions.

16. (a) Elaborate on the manufacturing process of glass.

Or

- (b) Describe about the different types of Fabrics.

17. (a) Explain the properties of terrazzo floor coverings and the process of laying.

Or

- (b) Discuss about the properties and uses of mosaic tiles.

18. (a) Outline the process of construction of false ceiling using thermacol.

Or

- (b) Write a detailed note on the construction of special ceilings.

19. (a) Illustrate the importance of laminated plywood in wall panelling for thermal insulation.

Or

- (b) How is fabric is used for sound insulation? Explain.

20. (a) Describe the properties and uses of cement based paints.

Or

- (b) Explain the process of painting on different surfaces.

**C-1433**

**Sub. Code**

**97913**

**DIPLOMA EXAMINATION, NOVEMBER 2023.**

**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 purpose of a water treatment plant in a water supply system?
  - (a) To extract minerals from the water
  - (b) To add colour and flavour to the water
  - (c) To purify and disinfect the water
  - (d) To increase water temperature
  
2. What is the primary function of a flushing cistern in a toilet?
  - (a) To store drinking water
  - (b) To regulate water pressure in the plumbing system
  - (c) To provide a source of hot water
  - (d) To release water for flushing waste from the toilet bowl
  
3. Which part of an air conditioner is responsible for transferring heat from inside to outside?
  - (a) Compressor
  - (b) Evaporator coil
  - (c) Blower fan
  - (d) Thermostat

4. Which type of fire extinguisher is suitable for use on most common fires, including those involving wood, paper, and electrical equipment?
- (a) Class B                      (b) Class A  
(c) Class D                      (d) Class C
5. What is the term for the time it takes for sound to decrease in intensity by 60 decibels after the sound source has stopped?
- (a) Reverberation time  
(b) Echo duration  
(c) Noise level  
(d) Sound frequency
6. Which of the following materials is commonly used for its soundproofing properties in walls and ceilings?
- (a) Plywood                      (b) Cork  
(c) Drywall                      (d) Glass
7. Which protective device is designed to interrupt the flow of electric current in the event of a short circuit or overload to prevent damage to electrical circuits and equipment?
- (a) Circuit breaker      (b) Voltage regulator  
(c) Transformer              (d) Surge protector
8. Which component is commonly found in a main distribution board to protect against over current and short circuits?
- (a) Residual current device  
(b) Fuse  
(c) Voltage stabilizer  
(d) Circuit breaker

9. Which artificial lighting design principle involves the even distribution of light throughout a space without shadows or glare?
- (a) Accent lighting (b) Task lighting  
(c) Ambient lighting (d) Uniform illumination
10. Which lighting colour temperature is often associated with a warm and cozy ambiance in residential settings?
- (a) 4000K (cool white)  
(b) 2700K (warm white)  
(c) 6500K (daylight white)  
(d) 5000K (natural white)

**Part B**

(5 × 5 = 25)

Answer **all** questions

11. (a) Write a short note on sanitary fittings.
- Or
- (b) Differentiate between intercepting chambers and inspection chambers.
12. (a) Write a brief note on chilled water plants.
- Or
- (b) Write short note on fire safety standards.
13. (a) Highlight the importance of room acoustics.
- Or
- (b) What is sound absorption? Explain absorption co-efficient.
14. (a) What is three phase supply? Brief out.
- Or
- (b) Write a brief note on the types of wires.

15. (a) Write short note on artificial lightening.

Or

(b) What is luminaries? Brief out.

**Part C**

(5 × 8 = 40)

Answer **all** questions.

16. (a) Explain the water supply and drainage system of multi-storied buildings.

Or

(b) Elaborate on the domestic hot water system.

17. (a) Describe about the window type air conditioners.

Or

(b) Write a detailed note on requirement and installation of fire fighting.

18. (a) Outline the acoustical requirements of different types of building.

Or

(b) What is reverberation? Illustrate the significance of time and absorption co-efficient in reverberation.

19. (a) Describe about the electrical wiring system.

Or

(b) Outline the electrical layout for interiors.

20. (a) What is day lighting? Explain.

Or

(b) Illustrate the importance of colour in lighting.