

## PU Dat Paper

### Section 1: Multiple Choice Questions (1 Mark Each) Total 40

1. In which country you can visit this integrated Hotel/Resort?



- A. Italy
- B. Spain
- C. Singapore
- D. Japan

2. Bihu is a regional folk of which Indian state?



- |                |                |
|----------------|----------------|
| A. Assam       | B. Maharashtra |
| C. West Bengal | D. Punjab      |

3. Who is the artist of famous painting “Galaxy of musicians”?



- A. Raja Ravi Verma
- B. Akbar Padmasee
- C. MF Hussain
- D. Romila Thapar

4. Which pattern is characterized by small, evenly spaced dots?

- A. Herringbone
- B. Chevron
- C. Polka dots
- D. Paisley

5. The term "athleisure" refers to clothing that combines:

- A. Formal and casual wear
- B. Sports and leisure wear
- C. Vintage and modern styles
- D. Traditional and ethnic wear

6. The term "androgynous fashion" refers to:

- A. Feminine clothing for men
- B. Unisex or gender-neutral styles
- C. Traditional cultural garments
- D. High-fashion couture

7. What is a key characteristic of modular design?

- A. Complex assembly processes
- B. Interchangeable and independent components
- C. Expensive materials
- D. Single-use design

8. What is the name of the Chandrayaan-3 landing site on the Moon?

- A. Vikram Valley
- B. Shiv Shakti Point
- C. Lunar Beacon
- D. Aryabhata Plateau

9. Which of the following is a sustainable material for furniture?

- A. Plastic
- B. Bamboo
- C. PVC
- D. Aluminum

10. What does the term "prêt-à-porter" mean in fashion?

- A. Custom-made clothing
- B. Ready-to-wear clothing
- C. Handmade accessories
- D. Eco-friendly fashion

11. Which of these fashion terms refers to an oversized silhouette with exaggerated shapes and volumes?

- A. Minimalism
- B. Avant-garde
- C. Streetwear
- D. Boho

12. Which of the following colors is associated with trust and professionalism in branding?

- A. Red
- B. Blue
- C. Yellow
- D. Green

13. Which of these typography styles is best used for headings and titles?

- A. Serif fonts
- B. Sans-serif fonts
- C. Script fonts
- D. Monospaced fonts

14. Which tech company announced the launch of a new autonomous vehicle in 2024?

- A. Tesla
- C. Apple

- B. Uber
- D. Amazon

15. Which country has recently been leading in the development of quantum computing?

- A. United States
- C. Russia

- B. China
- D. Germany

16. In visual storytelling, what does "composition" refer to?

- A. The arrangement of visual elements in a frame
- B. The use of specific colors for emotional effect
- C. The story behind a design
- D. The type of fonts used in communication

17. Which interior design element involves the combination of different textures and materials?

- A. Pattern
- C. Accent lighting

- B. Texture layering
- D. Open shelving

18. Which of the following is used to measure the exposure of a photograph?

- A. Histogram
- C. Exposure triangle

- B. Aperture scale
- D. Depth of field scale

19. Which visual communication tool is used for wireframing web pages or apps?

- A. Photoshop
- C. Canva

- B. Sketch
- D. Illustrator

20. Which of the following is a key element of "transitional" interior design?

- A. Mixing traditional and modern styles
- C. A rigid color palette

- B. A focus on futuristic elements
- D. Complete reliance on antique furniture

## Reading passage

### Futuristic Design: Embracing Innovation and Sustainability

Futuristic design refers to the creation of products, environments, and systems that anticipate the needs and challenges of the future. It combines technological advances, sustainability, and visionary thinking to reshape how we live, work, and interact. Designers working on futuristic concepts often take inspiration from the latest scientific discoveries, advancements in artificial intelligence, and the growing emphasis on environmental consciousness. As technology evolves, so do design strategies, pushing the boundaries of what is possible.

One key aspect of futuristic design is sustainability. As climate change and resource depletion continue to be global concerns, designers are increasingly focusing on creating products and spaces that reduce environmental impact. This can involve using renewable resources, minimizing waste, and creating energy-efficient systems. Moreover, futuristic design often looks at circular economy principles, where products are designed to be reused, recycled, or repurposed instead of discarded.

In the world of architecture, futuristic design is characterized by bold, organic shapes, often made possible through advanced construction technologies and materials. Building designs incorporate smart systems that optimize energy usage, lighting, and even temperature. These buildings often feature sustainable materials such as recycled steel, solar panels, and green rooftops. Some even utilize artificial intelligence to manage the various systems within a building, such as adjusting the HVAC (heating, ventilation, and air conditioning) based on occupancy patterns.

Another crucial element of futuristic design is human-centered innovation. Designers are moving away from purely aesthetic considerations to focus more on the practical needs of the individual. This means designing for comfort, accessibility, and user experience. With the advent of virtual and augmented reality, futuristic design is also expanding into the digital realm, where products and experiences are becoming more immersive and interactive.

As we look ahead, the future of design promises to be both practical and visionary. The integration of cutting-edge technology, sustainability, and human-

focused innovation will define how future generations experience the world.  
**(Questions 21 to 26)**

21. What is the primary focus of futuristic design?

- A. Creating aesthetically pleasing products
- B. Anticipating future needs through technological advances and sustainability
- C. Incorporating only traditional design elements
- D. Reducing manufacturing costs

22. What role does sustainability play in futuristic design?

- A. It is irrelevant to futuristic design
- B. It emphasizes the use of natural resources without concern for the environment
- C. It focuses on creating energy-efficient systems and using renewable resources
- D. It aims to create disposable products that can be replaced easily

23. Which of the following is a characteristic of futuristic architectural design?

- A. Use of outdated materials
- B. Simple, boxy structures
- C. Organic shapes and advanced construction technologies
- D. Lack of technological integration

24. How does artificial intelligence contribute to futuristic design in architecture?

- A. By creating visually appealing designs
- B. By managing systems like heating, ventilation, and lighting based on user behavior
- C. By reducing the cost of building materials
- D. By creating designs without human input

25. What is a key focus in human-centered innovation in futuristic design?

- A. Aesthetic design without concern for functionality
- B. Prioritizing comfort, accessibility, and user experience

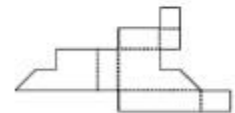
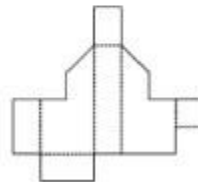
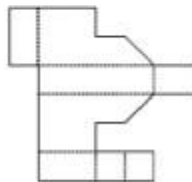
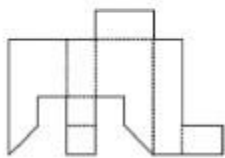
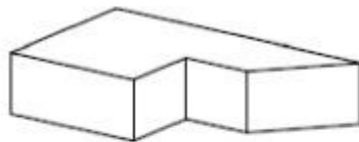
- C. Reducing the complexity of products and environments
- D. Designing based solely on technological capabilities

26. What is one aspect of digital design in the future?

- A. Use of 3D printing to create physical objects only
- B. Focus on virtual and augmented reality to create immersive experiences
- C. Eliminating the need for user interaction in design
- D. Creating static, non-interactive environments

**Multiple Choice Questions:**

27. will give the shape of the 3D solid given below?



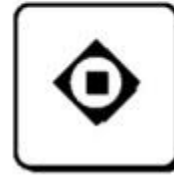
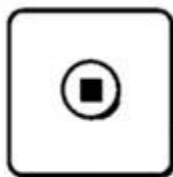
A. A

B. B

C. C

D. D

28. Which Box is next in sequence?



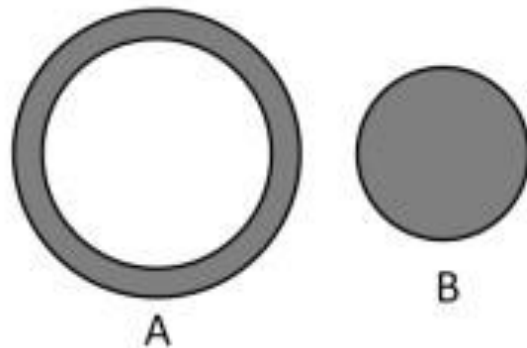
A.

B.

C.

D.

29. Given the same area, the same length and the same material, which of the following cross section will give more strength as a pillar to carry load?



A. A

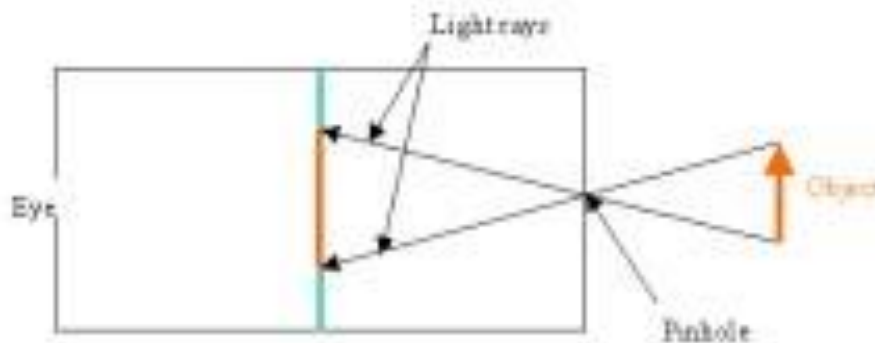
B. B

C. both will have the same strength

D. they cannot be compared

30. The image projected through a pinhole camera is

### Pinhole Camera : Principle



A. inverted laterally but not vertically

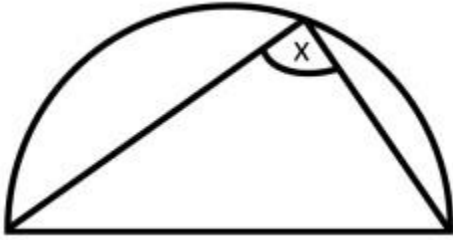
B. inverted vertically but not laterally

C. inverted laterally and vertically

D. upright laterally and vertically



31. The angle  $x$  inscribed on the semicircle is always



A. less than 90

B. less than 120

C. exactly 90

D. exactly 120

32. In which country you can see this UNESCO heritage Hindu-Buddhist temple Angkor Wat?



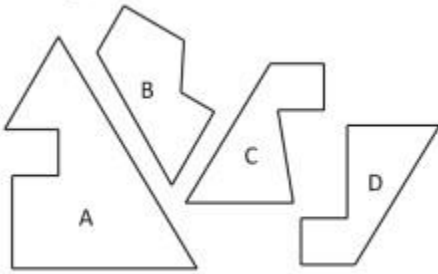
A. Cambodia

B. Malaysia

C. Thailand

D. Sri Lanka

33. Which of the following two will fit together to form a triangle. The given figures are to the scale and you may rotate them.



A. A and B

B. A and C

C. A and D

D. B and D

34. Channapatna toys are generally made from which Material?

A. Metal

B. Plastic

C. Cotton

D. Wood

35. What percentage of Visible figure is shaded?



A. 33%

B. 15%

C. 50%

D. 75%

36. Jaipur foot is

A. A footwear brand

B. A type of prosthetic leg

C. A Tourist place

D. A restaurant

37. Which of the following is not an embroidery tradition of india?

A. Phulkari

B. Batik

C. Kashida

D. Chamba Rumal

38. Which of the following Logo you will not find on a petrol pump in india?



A.

B.

C.

D.

39. The ruins of the glorious vijayanagara empire and a site of historical importance for its architectural style today is found at?

A. Tanjore

B. Belur

C. Hampi

D. Mandu

40. Wazwan a multi-course meal which also plays a significant role in culture and identity was originated in which state?

A. Bihar

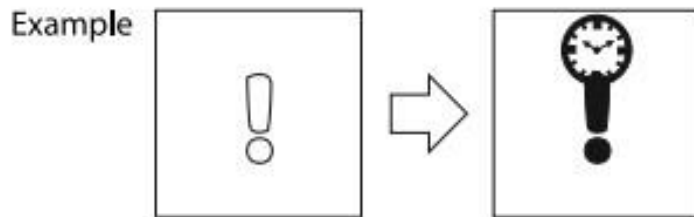
B. West Bengal

C. Assam

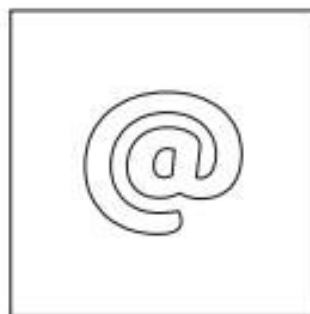
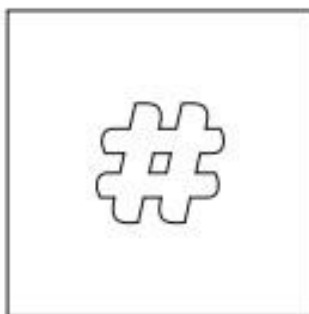
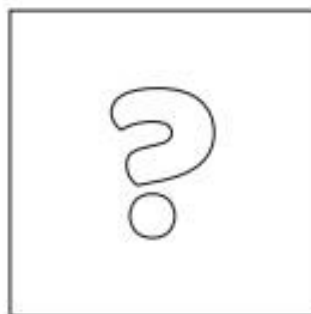
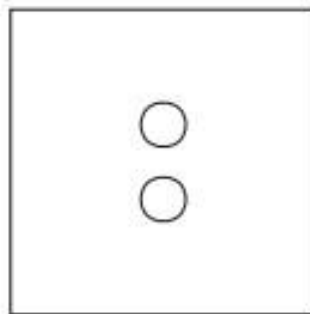
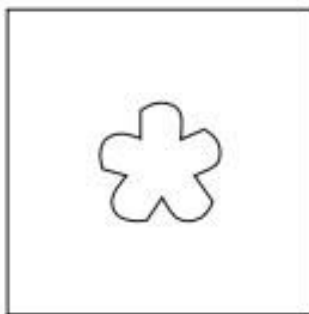
D. Jammu and Kashmir

## Section 2

41. Convert 5 punctuation marks given below into a realistic object using pencil  
(10 Marks)



Illustrate your answers on the figures given below within given square frame



**42.** Modify the chair given below considering the requirements of different users as mentioned below? (20 Marks)

A. A six year old child

B. A designer

C. A visually impaired person



Draw the modified chair and explain with three points why your design is relevant for the user?

**Space for sketch and design justification 1**

**Space for sketch and design justification 2**

**Space for sketch and design justification 3**

43. Below is the incomplete picture. Complete the picture (Usage of colors mandatory) and build a relevant story on the next page (30 Marks)



**Space to write the story**