



Aldel Education Trust's


**St. John College of Engineering & Management, Palghar**  
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NAAC Accredited with Grade 'A' (2017-2022)



**Department of Civil Engineering**  
**Sample Question Paper for Architectural planning and Design of Building**

**Q1. Solve all questions mandatory**

**2marks each**

- 1 The perspective of all horizontal lines inclined at \_\_\_\_\_ degree to the picture plane converge to a distance points on the horizontal line.
  - (a) 30
  - (b) 45
  - (c) 60
  - (d) 90
- 2 \_\_\_\_\_ is nothing, but the movement.
  - a) Circulation
  - b) Privacy
  - c) Grouping
  - d) Ventilation
- 3 What is the general application of the line shown below?  

  - a) Hidden edges
  - b) Extension
  - c) Cutting planes
  - d) Projection
- 4 In perspective drawings this is placed between the observer and the object
  - a) Vanishing point
  - b) Station point
  - c) Ground line
  - d) Picture plane
- 5 In perspective projection the projectors are \_\_\_\_\_ to each other and \_\_\_\_\_ to picture plane.
  - a) Parallel , perpendicular
  - b) Not parallel , inclined
  - c) Parallel , inclined
  - d) Not parallel , perpendicular
- 6 Identify the one which does not fall under list of Principles of Town Planning \*
  - (a) Housing
  - (b) Zoning
  - (c) Green belt
  - (d) Beauty

- 7 For LEED certification, the credits points required to gain silver certification is .
- (A) 40-49
  - (B) 60-79
  - (C) 50-59
  - (D) 80 points and above.
- 8 According to building by-laws the minimum height of parapet wall for a residential building should be \_\_\_\_ m.
- (A) 1
  - (B) 1.05
  - (C) 1.1
  - (D) 1.2
- 9 The minimum and maximum number of steps in one flight should be \_\_\_\_ & \_\_\_\_ NOS respectively.
- a) 9,12
  - b) 10,11
  - c) 9,11
  - d) 10,12
- 10 A \_\_\_\_\_ is a set of rules that specify the standards for constructed objects such as buildings and non-building structures.
- a) Building code
  - b) Building bye-laws
  - c) IS code
  - d) Procedure
- 11 Which is not a type of building?
- a) Educational Building
  - b) Mercantile Building
  - c) Institutional Building
  - d) Domestic building
- 12 The angle of the thatched roof slope should
- a) Less than 30 Degree
  - b) Parallel to floor
  - c) Right angled
  - d) Greater than 30 Degree
- 13 Which of the following elements should be used optimum to make a green building?
- a) Agni
  - b) Jal
  - c) Prithvi
  - d) All of the above
- 14 Which of the following is not an environment benefit for a green building?
- a) To reduce use of water
  - b) Reduce solid waste
  - c) Decrease air quality
  - d) None of the above
- 15 The ratio of the total floor area inclusive of all the floors to the area of the plot on which building stands is known as \_\_\_\_\_.
- (A) Setback area

- (B) Plot area
- (C) Floor area
- (D) Built-up area

16 The term \_\_\_\_\_ is used to mean the external views as seen from certain rooms of the building.

- (A) Aspect
- (B) Prospect
- (C) Elegance
- (D) Roominess

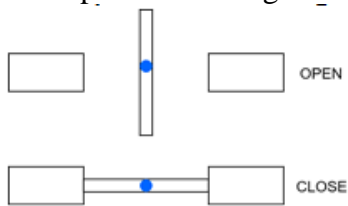
17 Which of the following green rating systems are currently working in India?

- a) LEED
- b) GRIHA
- c) Both A and B
- d) None of the above

18 The figure below represents a:

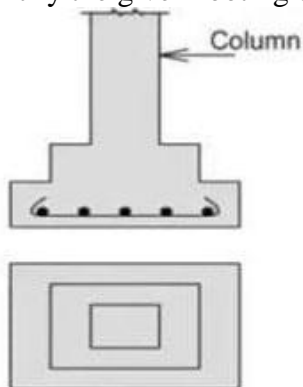
- (A) Dog-legged stairs
- (B) Turning stairs
- (C) Spiral stair
- (D) Well stairs

19 The representative figure below shows the mechanism of a \_\_\_\_\_ door



- (A) Rotating
- (B) Swing
- (C) Spinning
- (D) Sliding

20 Identify the given footing below.



- (A) Simple pad footing
- (B) Stepped footing
- (C) Strip footing
- (D) Stepped pad footing

**Q 2. Solve any ONE questions mandatory**

**1x20= 20M**

It is proposed to a construct of a residential bungalow RCC framed structure on a plot of 30mx33m with floor to floor height 3 m. Following are the requirements.

- Living Room
- Bedroom
- Master bedroom
- Kitchen
- WC/Bath

Draw the following with suitable scale

- A. Develop Plan:- 10M
- B. Elevation:- 10M

**OR**

It is proposed to a construct of a residential bungalow Load bearing structure on a plot of 30mx33m with floor to floor height 3 m. Following are the requirements.

- Living Room
- Bedroom
- Master bedroom
- Kitchen
- WC/Bath

Draw the following with suitable scale

- C. Develop Plan:- 10M
- D. Elevation:- 10M

**Q 3. Attempt any FOUR**

**4x5=20M**

- 1 Draw the SITE PLAN for the building, You have proposed on Q. No. 02
- 2 Raw a detail of one footing, You have proposed on Q. No. 02
- 3 Write a short note on a principle of town Planning.
- 4 Explain any two types of staircase with sketch.
- 5 What is Architectural Composition? Explain its Principle.

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