

PhD ADMISSION TEST 2020

Architecture

Q. 1.: Match the terminologies of Group I with their corresponding meanings in Group II

Group I

P. Antarala

Q. Mandapa

R. Gopuram

S. Prasada

Group II

1. Antechamber

2. Palace hall

3. Womb chamber

4. Gateway

5. Pillared sanctuary

a. P-3, Q-2, R-4, S-5

b. P-1, Q-5, R-4, S-2

c. P-5, Q-3, R-1, S-2

d. P-1, Q-2, R-3, S-5

2. a Gurudwara is planned with

a. with a statue of Guru Nanak Dev in the centre

b. With a statue of Guru Gobind Singh in centre

c. with a *Khanda* in the centre

d. none of these

3. Match the correct pair in Group 1 with Group 2

Group 1

P. Sun-Temple Konark

Q. Vimana

R. Shikhara

S. Panch-Rathas

Group 2

1. Dravidian Style

2. Nagara Style

3. Kalinga Style

4. Pallava Style

a. P2, Q1, R4, S3

b. P4, Q2, R3, S4

c. P3, Q1, R2, S4

d. P2, Q3, R1, S2

4. The orientation of a mosque is governed by direction of:

a. Mihrab

b. Mimbar

c. Qibla

d. Iwan

5. Window installed on the slopes roofs are known as

a. Bay Window

b. Dormer Window

c. Gable Window

d. Clear storey Window

6. What is the group of materials that are hard and brittle, but they are electricity insulators?:

a. Metals

b. Polymers

c. Ceramics

d. Composites

7. The test conducted to determine the consistency and workability of the concrete mix is;

a. Slump Test

b. Compression Test

c. Core Test

d. All of the above

8. Bottle Trap are used in buildings to drain:

- a Water Closet b Wash Basin
- c Bath Tub d All of the above

9. Tensile Fabric is used for

- a. Hosing b. Beadings
- c. Structural covering d. Robes

10. Pick the right sequence of introduction of luminaires in buildings..

- a. LED
- b. CFL
- c. Florescent Tube
- d. Incandescent Bulb

- a. e f g h b. h g e f
- c. h g f e d. f g h e

11: Match the locations in Group I with the corresponding traps in Group II

- | | |
|--------------------------|----------------|
| Group I | Group II |
| P. Inspection chamber | 1. M-Trap |
| Q. Wash basin | 2. Gully Trap |
| R. Bathing space | 3. S-Trap |
| S. European water closet | 4. Bottle Trap |
| | 5. Floor Trap |

- a. P-2, Q-1, R-4, S-2 b. P-4, Q-5, R-2, S-3
- c. P-2, Q-4, R-5, S-3 d. P-2, Q-3, R-4, S-1

12.: Match the building construction components in Group I with their application areas in Group II

- | | |
|-------------------|--------------------|
| Group I | Group II |
| P. Bracket Plate | 1. Steel Column |
| Q. Kick Plate | 2. Curtain Wall |
| R. Pressure Plate | 3. Rolling Shutter |
| S. Base Plate | 4. Stone Wall |
| | 5. Toilet Door |

- a. P-2, Q-3, R-4, S-1 b. P-2, Q-5, R-1, S-4
- c. P-2, Q-5, R-3, S-1 d. P-3, Q-5, R-2, S-1

13. In structural failure punching may occur at

- a. beams b. Slab
- c. Column d. at all the places

14. Sagging may occur at

- a. beams b. foundation
- c. Column d. at all the places

15. Anti-termite treatment are done at

- a. Foundation level
- b. Foundation and Ground Floor level
- c. Foundation, Floor and Roof level
- d. only at Roof and Floor level

16. Corrected Effective Temperature is an index which combines the effect of

- P. Climatic zone
- Q. Temperature
- R. Wind velocity
- S. Vegetation
- T. Humidity
- U. Solar radiation

- a. P, Q, R, S
- b. Q, R, T, U
- c. Q, S, T, U
- d. Q, R, U, P

17. As per the Noise Pollution (Regulation & Control) Rules 2000, in the residential areas, during daytime, the maximum limit of permissible noise in db is:

- a. 75
- b. 65
- c. 55
- d. 50

18. The Kyoto Protocol addresses the issues of?

- a. Water Harvesting
- b. Greenhouse Gases
- c. Climate Change
- d. Deforestation

19.: ECBC stands for

- a) Electrical Conduit in Building Construction
- b) Energy Conservation Building Code
- c) Electrical Credit in Building Code
- d) Energy Credit in Building Construction

20. 'Water harvesting' has emerged as a sensible method of meeting the water manner and is now being applied in most cities to raise the groundwater levels. Water harvesting is the:

- a. Collection of water from river
- b. Collection of rainwater in storage tanks or putting back into the soil to recharge groundwater
- c. Harvesting of water from tube-wells
- d. Harvesting water from surface sources like ponds

Q.21. In the field of visual arts, space is viewed as a design element. Which of the following principles utilize space as an element

- a. Proximity
- b. Enclosure
- c. Both of above
- d. None

22.. Statement 1- Obstructions in the pathway should be easy to detect, and if possible, should be placed along one continuous line.

Statement 2- All types of signs should be visible, clear, simple, easy to read and understand, and properly lit at night.

Statement 3- A guide strip painted in a contrasting colour should be constructed to guide sightless and partially sighted pedestrians to the location of the curb ramp.

- a. These statements are part of the urban design considerations for designing a barrier free environment.
- b. These statements are part of the architectural design considerations for designing a barrier free environment.
- c. both the above
- d. none

23. Match the Gandhi Memorial with the architect.

P. Charles Correa

x. Raj Ghat Delhi

Q. Habib Rahman

y. Gandhi Ghat Barrackpur

R. Vanu Bhuta

z. Gandhi Smarak Ahmadabad

S. Achyut Kanvinde

T. Joseph Stien

- a. P-x, T-Y, R-Z
- b. Q-x, P-y, R-z
- c. R-x, Q-y, P-z
- d. S-x, Q-y, R-z

24. Identify the correct sequence

- a Master Plan, Zonal Development Plan, Local Area Plan, Sector Plan
- b Sector Plan, Master Plan, Local Area Plan, Zonal Development Plan
- c Sector Plan, Zonal Development Plan, Master Plan, Local Area Plan
- d Master Plan, Local Area Plan, Zonal Development Plan, Sector Plan

25. What is Air Funnel denotes ?

- a. Area Under high air pressure
- b. It reflects the Air Flow Direction
- c. Landing path of Aircraft near aerodrome
- d. Area under special height restriction

26.: Nalanda is located in which state.

- a. Jharkhand
- b. West Bengal
- c. Arunachal Pradesh
- d. Bihar

27.: The traditional Cluster houses of Uttar Pradesh are called as

- a. Chawls
- b. Pole
- c. Katras
- d. Ahata

28. Match the concepts in Group I with the personalities in Group II

Group I

P. Linear City

Q. Radiant City

R. Garden City

S. Arcology

Group II

1. Le Corbusier

2. Paolo Soleri

3. Louis Kahn

4. Soria Y Mata

5. Ebenezer Howard

a. P-4, Q-3, R-5, S-1

b. P-3, Q-1, R-4, S-2

c. P-4, Q-1, R-5, S-2

d. P-1, Q-5, R-2, S-4

29. Before Le Corbusier, the job of planning a new capital city of Chandigarh was first allocated to

a. Albert Mayer

b. Matthew Novicki

c. Both

d. None

30.. GRIHA is a rating for Green Building given by

a. The Energy and Research Institute

b. Development Alternatives

c. Bureau of Energy Efficiency

d. Ministry of Power

31. If in a housing scheme of 10000 sq M, there are 240 Dwelling units, what is the density? per hectare taking household size of 5?

a. 900

b. 1800

c. 1200

d. 3600

32. For a building to function as Intelligent Building, which component is not essential?

a. sensors

b. automation

c. processor

d. none of these

33. Which is not computer software for computer aided design works for architects.

a. ArchiCad

b. Autodesk Revit

c. Scorpio

d. Rhino

34. Which of the following is not a GIS Software?

a. Grasshopper

b. ArcGIS

c. ILWIS

d. Global Mapper

35. Who Planned Bhubaneswar

a. Le Corbusier

b. Louis Kahn

c. C. A. Doxiadis

d. Otto Koenigsberger

36. Match the standard safety colour codes of Group I with their corresponding usage in Group II

Group I

P. Blue

Q. Green

R. Red

S. Yellow

Group II

1. Biodegradable waste

2. Fire protection equipment

3. Recyclable waste

4. Stumbling against hazards

5. Radiation standards

a. P-3, Q-1, R-2, S-4

b. P-3, Q-4, R-5, S-1

c. P-1, Q-3, R-2, S-5

d. P-1, Q-5, R-2, S-4

37. Match the locations in Group I with the corresponding traps in Group II

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S. European water closet

Group II

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2. Gully Trap

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4. Bottle Trap

5. Floor Trap

a. P-2, Q-1, R-4, S-2

b. P-4, Q-5, R-2, S-3

c. P-2, Q-4, R-5, S-3

d. P-2, Q-3, R-4, S-1

38. Match the building construction components in Group I with their application areas in Group II

Group I

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Group II

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3. Rolling Shutter

4. Stone Wall

5. Toilet Door

a. P-2, Q-3, R-4, S-1

b. P-2, Q-5, R-1, S-4

c. P-2, Q-5, R-3, S-1

d. P-3, Q-5, R-2, S-1

39. 'Last Mile Connectivity' is related to

- a Mass Rapid Transit System
- b Interstate Bus Transit
- c Railways
- d All of the above

40. The concept of 'TOD' can be described as

- a Low Development along the Highway
- b High Density Development close to the Airport
- c High Density Development close to the Metro Stations
- d Medium Density Development close to the Traffic Roundabouts

Architecture

PU PhD ADMISSION TEST 2020 Key

Q. No	Answer	Q. No	Answer	Q. No	Answer	Q. No	Answer
1	b	11	c	21	c	31	c
2	d	12	d	22	a	32	d
3	c	13	c	23	c	33	c
4	c	14	a	24	a	34	a
5	b	15	b	25	d	35	d
6	c	16	b	26	d	36	a
7	a	17	c	27	d	37	c
8	b	18	b	28	c	38	d
9	c	19	b	29	c	39	a
10	c	20	b	30	a	40	c