

PHD ENTRANCE EXAMINATION – JULY 2019

MARKS: 1.25 each question

TIME ALLOWED: 45-minutes

1. In a Colour Wheel, Red and Blue colours are
 - (A) Tertiary
 - (B) Complementary
 - (C) Secondary
 - (D) Primary
2. Bamboo is a type of
 - (A) Shrub
 - (B) Timber
 - (C) Evergreen tree
 - (D) Perennial grass
3. In a bird's eye perspective view of a cuboid, the maximum number of vanishing points is
 - (A) 1
 - (B) 2
 - (C) 3
 - (D) 6
4. The compressive strength of M-25 concrete is
 - (A) 25 kg/sqm
 - (B) 25 N/sqmm
 - (C) 250 N/sqmm
 - (D) 2.5 N/sqmm
5. 'Sight Distance' is considered in the design of
 - (A) Road intersection
 - (B) Fenestration
 - (C) Open kitchen
 - (D) Auditorium
6. According to the UN, one of the components for measuring 'inclusive growth' is
 - (A) Economic well-being
 - (B) Physical infrastructure
 - (C) Education
 - (D) Life expectancy
7. Tuscan and Composite orders are associated with
 - (A) Greek Architecture
 - (B) Islamic Architecture
 - (C) Byzantine Architecture
 - (D) Roman Architecture
8. The concepts of 'serial vision', 'punctuation' and 'closure' were proposed by
 - (A) Le Corbusier
 - (B) Louis Kahn
 - (C) Gordon Cullen
 - (D) Kevin Lynch

9. Which of the following processes is NOT used for corrosion resistance of cast iron?
- (A) Painting
 - (B) Epoxy coating
 - (C) Quenching
 - (D) Galvanizing
10. The unit of measuring sound absorption in a room is
- (A) Sabin
 - (B) Phon
 - (C) Decibel
 - (D) Hertz
11. In Geographic Information System. DEM represents information on
- (A) vegetation cover
 - (B) soil type
 - (C) water table
 - (D) topography
12. ArchiCAD, Auto Desk Revit, Digital Project Designer (CATIA) and Vector Works Architect are examples of
- (A) Statistical Analysis software
 - (B) GIS software
 - (C) BIM software
 - (D) Image processing software
13. Mushroom Column' is a typical feature of
- (A) Pantheon, Rome
 - (B) Parthenon, Athens
 - (C) Chrysler Building, New York
 - (D) Johnson Wax Building, Racine
14. The concept of 'Dry Garden' is associated with
- (A) Japanese Garden
 - (B) Chinese Garden
 - (C) Mughal Garden
 - (D) Egyptian Garden
15. The components measuring Human Development Index (HDI) of a nation are
- (A) Life expectancy, Education and Per Capita Income
 - (B) Life expectancy, Economy and Housing
 - (C) Health, Development and Per Capita Income
 - (D) Housing, Health and Hygiene
16. In CMYK colour model, 'K' represents the colour
- (A) White
 - (B) Black
 - (C) Blue
 - (D) Green
17. Segregation at source' is a concept associated with
- (A) Solid waste management
 - (B) Disaster management
 - (C) Traffic management
 - (D) Water management

18. 'Volume Zero' is a film based on the architectural works of
(A) Peter Eisenman
(B) Charles Correa
(C) Daniel Libeskind
(D) Roger Angers
19. Walls with high thermal inertia are suitable in which type of climate?
(A) Hot-dry
(B) Hot-humid
(C) Temperate
(D) Cold
20. The ratio of town area to agricultural land area as suggested by Sir Ebenezer Howard in 'Green City' is
(A) 1:20
(B) 1:15
(C) 1:10
(D) 1:5
21. 'Demolition Contract' for a building is awarded to the
(A) Lowest Bidder
(B) Highest Bidder
(C) Second Lowest Bidder
(D) Second Highest Bidder
22. Cohort in Urban Planning refers to
(A) Age and Sex classification of Population
(B) Contour level in slope analysis
(C) Land use classification of public and semi-public spaces
(D) Soil layer classification
23. The pavement and buildings in cities affect the local climate by
(A) Decreasing the temperature
(B) Increasing the precipitation
(C) Increasing the temperature
(D) Decreasing the precipitation
24. _____ is not significant in selecting the type of elevator to be used?
(A) Power used to operate the elevator
(B) Height of the building
(C) Speed of the elevator
(D) Number of building occupants
25. The architect who is instrumental in the design of the capital city of Delhi is
(A) Edwin Lutyens
(B) Le Corbusier
(C) Louis Khan
(D) Charles Correa
26. Awarded annually since 1979, which of these is a top prize in the field of architecture?
(A) Aga Khan Prize
(B) Croix De Guerre
(C) Pulitzer Prize
(D) Pritzker Prize

27. Who conceptualized the 'City Beautiful Movement'?
- (A) Frank Gehry
 - (B) William Van Alen
 - (C) Daniel Burnham
 - (D) Robert Owen
28. Angles measured clockwise from any meridian, usually north, is called:
- (A) Plotting
 - (B) Azimuths
 - (C) Altitude
 - (D) Solid angle
29. In what type of development do builders build on previously developed land?
- (A) Orangefield
 - (B) Brownfield
 - (C) Greenfield
 - (D) Whitefield
30. Identify the combination of colors, which does not fall under category of Tertiary color.
- (A) yellow-orange,
 - (B) red-orange,
 - (C) red-purple,
 - (D) yellow – red
31. The property of concrete measured by Slump test is
- (A) Durability
 - (B) Hardness
 - (C) Strength
 - (D) Workability
32. Horizontal member of a shutter that subdivides a window is termed as
- (A) Mullion
 - (B) Transom
 - (C) Reveal
 - (D) Purlin
33. The slab simply supported on all its edges with a ratio of longer side to shorter side greater or equal to 2 is designed as
- (A) One way slab
 - (B) Two way slab
 - (C) Flat slab
 - (D) Coffered slab
34. The botanical name of the Neem Tree is
- (A) Melia Azedrach
 - (B) Acacia Arabica
 - (C) Acacia Auriculiformis
 - (D) Azadirachta indica
35. The following is the variety of an Evergreen Tree
- (A) Amaltas (Cassia fistula)
 - (B) Gulmohar (Delonix regia)
 - (C) Mango (Mangifera indica)
 - (D) Kachnar (Bauhinea variegata)

36. It is a pipe which receives discharge of any fixture except water closets and conveys it to the soil pipe
- (A) Waste pipe
 - (B) Wet vent
 - (C) Soil pipe
 - (D) Individual vent
37. A valve used on pipe lines to prevent backflow of water
- (A) Gate valve
 - (B) Check valve
 - (C) Angel valve
 - (D) Globe valve
38. Huge monoliths square on plan and tapering at the summit, erected in the Egyptian Architecture are known as
- (A) Pyramid
 - (B) Sarcophagus
 - (C) Obelisk
 - (D) Pyramidion
39. Dandaka form of settlement layout is basically a
- (A) Grid iron pattern
 - (B) Ring radial pattern
 - (C) Radial pattern
 - (D) Informal pattern
40. Darker region in shadow with well-defined outline is called
- (A) umbra
 - (B) penumbra
 - (C) screen
 - (D) source

ANSWER SHEET PhD ARCHITECTURE – JULY 2019

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