



CHANDIGARH COLLEGE OF ARCHITECTURE
M. ARCHITECTURE ADMISSION TEST- 2023
SET-1

Name.....

Time: 1 Hour

Registration No.

Marks: 30 Marks

Note: All questions are compulsory. All questions carry equal marks i.e. 1 mark each.

1. The correct sequence of the following Construction Project Development stages, as per the National Building Code of India 2016 is _____.
 - (P) Resource Planning
 - (Q) Project Inception
 - (R) Commissioning and Handing over
 - (S) Tendering
 - (T) Site Survey and Soil Investigation
 - (U) Selection of Construction Methodology
 - a. P-Q-R-T-U-S
 - b. T-Q-R-U-S-P
 - c. Q-T-U-P-S-R
 - d. Q-T-P-S-U-R

2. The major advantage of a GIS is that it allows to
 - a. Identify the spatial relationships between map features.
 - b. Store a map in any conventional sense.
 - c. Store a particular image or view of a geographic data.
 - d. Get the information about the earth surface.

3. The keyboard shortcut for the Plot command is
 - a. Shift + P
 - b. Ctrl+ Shift + P
 - c. P
 - d. Ctrl + P

4. When a GIS dataset for a given project is constantly revised, accessed, and manipulated by multiple users the best practice approach for storing the data is:
- Shape files
 - Personal Geodatabase
 - KML files
 - Enterprise Geodatabase

5. Match the temples in Group I with their style of Architecture in Group II

Group I		Group II	
P	Badami Cave Temples	1	Pandya style
Q	Kalugumalai Temple Complex	2	Chola style
R	Airavatesvara Temple	3	Chalukya style
S	Chennakeshava Temple	4	Vijayanagara style
		5	Hoysala style

- P-3 Q-1 R-2 S-5
- P-3 Q-4 R-2 S-1
- P-2 Q-1 R-3 S-5
- P-5 Q-1 R-4 S-2

6. Which of the following is a green building material?

- FaL-G blocks
- Steel
- Cement
- None of the above

8. Geothermal energy is extracted from

- Sun
- Earth
- Sea
- None of the Above

9. Which of the following factors helps in reducing landscape water demand?

- Minimizing lawn area
- Use of native & adapted species for landscaping
- Use of efficient irrigation technologies
- All of the above

10. Plant which is suitable as a central specimen in Garden
- Bougainvillea
 - Banyan tree
 - Christmas tree
 - Rain tree
11. What is a scientific name of Apple?
- Malus domestica
 - Mangifera Helianthus
 - Brassica Mangifera oleracea
 - Solanum indica
12. AutoCAD environment settings can be seen by the command
- OSNAP
 - DDRMODES
 - STATUS
 - SNAP
13. Using the AutoSum button will replace in the selected cell with
- the sum of values in the cell's column
 - a formula which will add values in the range Excel guesses you want to add
 - the sum of the cell's row unless you change the range
 - None of the Above
14. How does GIS differ from surveying and mapping?
- By introducing Attribute descriptions
 - By introducing Spatial analysis
 - By introducing Location determination
 - By introducing temporal information
15. Responsibilities that does not fall under the 12th schedule of 74th Constitutional Amendment Act of municipal services planning is/ are _____
- Urban planning including town planning
 - Minor irrigation and watershed development
 - Vital statistics including registration of births and deaths
 - Water supply for domestic, industrial and commercial purposes

16. Match the States in Group I with the corresponding Vernacular Building Typologies in Group II

Group I		Group II	
(P)	Kerala	(1)	<i>Moring</i>
(Q)	Jharkhand	(2)	<i>Pol</i>
(R)	Nagaland	(3)	<i>Dhunkuria</i>
(S)	Gujarat	(4)	<i>Nalukettu</i>
		(5)	<i>Ghotul</i>

- P-4, Q-5, R-3, S-2
- P-5, Q-1, R-2, S-4
- P-5, Q-3, R-1, S-4
- P-4, Q-3, R-1, S-2

17. Match the type of plans with the most appropriate plan periods and choose the correct answer:

Type of Plans	Plan period
P. Perspective Plan	I. 20 – 30 years
Q. Master Plan	II. 1 year
R. Annual Plan	III. 5 – 20 years
S. Local Area Plan	IV. 20 years

- P-I; Q-III; R-II; S-IV
- P-I; Q-IV; R-II; S-III
- P-IV; Q-III; R-II; S-I
- P-IV; Q-I; R-II; S-III

18. Match the Houses in Group-I with their Architects in Group-II

Group-I	Group-II
P Villa Müller, Prague	1 Frank Gehry
Q Farnsworth House, Illinois	2 Frank Lloyd Wright
R Schröder House, Utrecht	3 Adolf Loos
S Dancing House, Prague	4 Mies van der Rohe
	5 Gerrit Rietveld

- P-5, Q-2, R-4, S-1
- P-3, Q-4, R-5, S-1
- P-3, Q-2, R-5, S-4
- P-5, Q-4, R-2, S-3

19. As per urban design principles proposed by Gordon Cullen, Rashtrapati Bhavan, New Delhi, is an example of

- Serial Vision
- Pinpointing
- Occupied territory
- Here and there

20. A waste water pipe connecting two inspection chambers (IC) is laid at a slope of 1:200. The Invert Level of the starting IC is -450 mm. The Invert level of the second pit at a distance of 40 m from the first IC is

- 650mm
- 200mm
- 250mm
- 550mm

21. The concentric circles in a sun-path diagram represent _____.

- Altitude angle
- Azimuth angle
- Day of the year
- Hour of the day

22. The main cable of a suspension bridge supports the deck with hangars. These hangars are equidistant along the length of the bridge and represent a uniformly distributed load. Assuming the cable to be weightless as compared to the applied loading, the best approximation of the shape that the cable takes for this loading is _____.

- Catenary curve
- Circular arc

- c. Parabolic curve
- d. Hyperbolic curve

23. Coefficient of Performance (COP) for heat pump is used to calculate

- a. the number of air changes
- b. the Energy Efficiency Ratio
- c. the Energy Select Sector index
- d. the Indoor Air Quality index

24. The Golden Ratio refers to _____.

- a. $1:\sqrt{2}$
- b. $2:(1 + \sqrt{5})$
- c. 1:1
- d. 16:9

25. The Following are pillars of Sustainable Development

- a. Social and Economy
- b. Environment and Society
- c. Environment, Social and Economy
- d. None of the above

26. Which of the following can be considered as pervious area?

- a. A swimming pool
- b. Lawn and Natural water body
- c. Interlocked concrete pavers with sand bed
- d. None of the Above

27. Which among the following acronyms represents a thermal comfort index?

- a. PMV
- b. NDVI
- c. DEM
- d. PCA

28. As per 'National Building Code of India' 2005, the country is divided in _____ climatic zones.

- a. Five
- b. Four
- c. Six
- d. Nine

29. Which of the following sites were added to Ramsar List in the year 2020?

- a. Ashtamudi Wetland
- b. Chilika Lake
- c. Lonar Lake
- d. None of the above

30. As per the Solid Waste Management Rules 2016, which among the following are 'Duties of waste generators'?

- a. Segregate and store waste generated in four separate streams namely, combustible, non-combustible, organic and domestic hazardous waste
- b. Compost horticulture waste and garden waste separately within own premises
- c. All waste generator shall pay user fee for solid waste management
- d. None of the above

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