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**PD-38**

**Total No. of Pages : 12**

**Ph.D. Entrance Examination, 2025**

**Sub: Architecture Engg.**

**Sub. Code : 69597**

**Day and Date : Wednesday, 10-09-2025**

**Total Marks : 100**

**Time : 10.00 a.m. to 12.00 noon**

**Instructions:**

1. All questions are compulsory.
2. Each question carries 2 marks.
3. Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
4. Use black ball point pen only for marking the circle. Do not make any stray mark on the OMR Answer Sheet.
5. Follow the instructions given on OMR Sheet.
6. Rough work shall be done on the sheet provided at the end of question paper.
7. Only non programmable calculators are allowed.

**Section I**

1. ....of research is to find out the truth which is hidden and which has not been discovered as yet.  

A. Problem statement	B. Objectives
C. Aim	D. Research methodology
2. Gathering knowledge for knowledge's sake is termed.....  

A. Pure research	B. Fundamental research
C. Descriptive research	D. Applied research
3. To examine whether there is a relationship between two or more aspects of situation or phenomenon is .....  

A. Observation	B. Direct observation
C. Mapping	D. Correlational research

4. References are not required when the applied knowledge is a part of a common professional base and can be turned as .....
- A. Bibliography                                      B. Citation  
C. Knowledge                                         D. General knowledge
5. .... is any list of references at the end of a text, whether cited or not. It includes texts you referred, but your own additional background reading.
- A. Citation    B. references  
C. Bibliography                                        D. Appendix
6. From the following which is not the step of writing report.
- A. Rewriting and polishing  
B. Preparation of final outline  
C. Preparation of bibliography  
D. Literature review
7. Formulating the research problem relate to
- A. States of nature and relationship between variables.  
B. Relationship between variables and method of research  
C. Hypothesis and scope  
D. Scope and limitations
8. .... is the arrangement of conditions for collection and analysis of data in a manner that aims to combine relevance to the research purpose with economy in procedure.
- A. Research design  
B. Research methodology  
C. Data analysis and collection  
D. Formulating problem statement

9. Professor Fisher has enumerated principle of experimental design that is .....
  - A. Principle of data analysis
  - B. Principle of conclusions
  - C. Principle of randomization
  - D. Principle of sampling
10. The search for knowledge through an objective and systematic method of finding a solution to a problem is .....
  - A. Problem statement
  - B. Testing hypothesis
  - C. Research
  - D. Search
11. .... provide the most up-to date information while reviewing literature.
  - A. Books
  - B. Magazines
  - C. Articles
  - D. Journa
12. ....occurs when a person neglects to cite their resources or misquotes their sources or unintentionally paraphrases a source by using similar words, groups of words and sentence structure without attribution.
  - A. Accidental plagiarism
  - B. Mosaic plagiarism
  - C. Innocent plagiarism
  - D. Plagiarism
13. Primary data can be collected either through ..... or through .....
  - A. Secondary, tertiary
  - B. Experiment, survey
  - C. Research design, problem statement
  - D. search, literature review
14. Good research is .....
  - A. systematic
  - B. logical
  - C. empirical
  - D. all of the above

15. A research design appropriate for a particular research problem involves .....

- A. Availability and skills of researcher
- B. Objective of the problem
- C. Nature of the problem
- D. All above

16. Characteristic of a good sample design as .....

- A. Sample design must result in true sampling
- B. Sample should be such that the results of the sample study can be applied specifically only
- C. Sample design must be such so that systematic bias can be controlled in a better way
- D. Sample design must be not viable in the context of funds available

17. .... approach of inquiry is carried out in quantitative research.

- A. Observatory
- B. Explanatory
- C. Structured
- D. Unstructured

18. A research report should .....

- A. Show originality
- B. Attempt to solve some intellectual problem
- C. Contribute to the solution of a problem
- D. All of the above

19. Surveys are conducted in case of .....

- A. Experimental research
- B. Correlational research
- C. Descriptive research
- D. Pure research

20. Daily life research consists of .....
- A. Systematic, controlled and empirical data
  - B. Controlled and empirical data
  - C. Observation, classification and interpretation of data
  - D. Random and uncontrolled data.
21. .... is a movement from the known to unknown.
- A. Research Methodology
  - B. Research
  - C. Literature review
  - D. Research design
22. Research is a original contribution to the existing stock of knowledge making for its .....
- A. Testing
  - B. Understanding
  - C. Advancement
  - D. Truth
23. .... are needed to ensure the moral rights of author.
- A. Proofs
  - B. Justifications
  - C. References
  - D. Research methods
24. .... can be referred to as the main source of up-to-date news about the latest events related to the research area.
- A. Journals
  - B. Internet
  - C. News papers
  - D. Books
25. .... is carried out to determine the feasibility of research.
- A. Research methodology
  - B. Pilot study
  - C. Direct observation
  - D. Case study

## Section II

26. ....are major and minor routes of circulation which people use to move about.
- A. Roads
  - B. Paths
  - C. Routes
  - D. Roadways
27. .... is Physical extent of city and also describes in terms of its
- A. Size, number of inhabitants
  - B. Shape, square kilometres
  - C. Size, pattern
  - D. Density, texture
28. Planning authority should submit the ..... to the state government for sanction within a period of ..... from the date of publication of the notice in the official Gazette.
- A. Interim development plan, Sixty days
  - B. Draft development plan, Twelve months
  - C. Comprehensive development plan, Three years
  - D. Strategic plan, Two years
29. Proposed the logic of linear utility lines should be the basis of all city layout.
- A. Soriya Mata
  - B. Le Corbusier
  - C. F.L. wright
  - D. C.A. Doxiadis
30. The main characteristics of the PPP model is .....
- A. Long term service provisions
  - B. The transfer of risks to private sector
  - C. Different forms of long-term contracts draw up between legal entities and public authorities
  - D. All of the above

31. Which of the following is a key characteristic of a hurricane?
- A. High seismic activity
  - B. Volcanic eruptions.
  - C. High wind speeds and heavy rainfall
  - D. Toxic gas release
32. Functional, economic, social, political and ethnic are the .....of conservation
- A. Ethics
  - B. Emotional values
  - C. Cultural values
  - D. Use values
33. Which of the following was a significant influence on the development of Indian temple architecture during the 7<sup>th</sup> to 9<sup>th</sup> centuries
- A. Dravidian architecture
  - B. Buddhist architecture
  - C. Aryan architecture
  - D. Islamic architecture
34. The "intimate" spaces of a city are usually not much greater than .....across; "urbane" space, no greater than about .....
- A. 80 feet, 450 feet
  - B. 90 feet, 460 feet
  - C. 10 feet, 40 feet
  - D. 3 feet, 10feet
35. ....Which represent nature brought into and around the city,
- A. Open spaces
  - B. Formal open spaces
  - C. Recreational open spaces
  - D. Natural open spaces
36. Viability Gap Funding (VGF) is available only .....
- A. if the private company in which 51% shares or more of the subscribed and paid equity are owned and controlled by it.
  - B. If the private company has been selected on the basis of competitive bidding.
  - C. If the private company takes the responsibility of financing, construction and maintenance of the project during the concession period.
  - D. All the above

37. There are numerous determinants which have their origin in humankind's intervention in the natural settlement processes, which shall term ....determinants.  
A. Natural  
B. Man made  
C. Locally effective  
D. Historic
38. Cities and settlements have evolved through three historic eras in which 2nd era recognises as .....  
A. Market places  
B. Centres for service provider  
C. Centres of consumption and knowledge  
D. Centres of industrial production
39. Which of the following would most likely be part of a National Housing Policy focused on sustainability?  
A. High-density development near transportation  
B. Building exclusively suburban homes  
C. Prioritizing luxury apartments  
D. Promoting detached homes in rural areas
40. Chanakya was the author of .....containing discourses on many subjects, inter-alia duties of government, administration, town and country planning and housing.  
A. Manasara  
B. Shilpshastra  
C. Arthashashtra  
D. Vedshashtra
41. Unit of scale .....which is equal to the distance between outstretched hands of a man.  
A. Hasat  
B. Jav  
C. Danda  
D. Angul



42. Renaissance period of Europe corresponds with the ..... in India.
- A. Medieval period                      B. Baroque period  
c. Proto Baroque period              D. Mughal period
43. The horizontal distance from one plot line to another plot line in front of it is known as .....
- A. Road                                      B. Right of way  
C. Carriage way                          D. Building line
44. which type of cement is primarily used for underwater construction due to its resistance to water,
- A. Ordinary Portland cement              B. Rapid hardening cement  
C. Sulphate resisting cement              D. White cement
45. Which factor has the greatest impact on acoustic comfort in indoor spaces .....
- A. indoor air quality  
B. Sound insulation and control of noise from external and internal sources  
C. natural light  
D. thermal insulation
46. Which ruler is associated with the construction of Red Fort in Delhi.
- A. Akbar                                      B. Aurangzeb  
C. Shah Jahan                              D. Jahangir
47. Chandigarh city designed by .....
- A. Lutyens  
B. Le Corbusier  
C. Louis Khan  
D. P.N. Thapar

48. A slum is defined as .....

- A. overcrowded area
- B. Area where basic amenities were lacking
- C. Area with insanitary conditions
- D. All of the above

49. The staggered junctions' roads should be of sufficient distance apart or at least....

- A. 150 m
- B. 90m
- C, 100 m
- D. 120m

50. The Chernobyl disaster is an example of what type of disaster?

- A. Nuclear disaster
- B. Chemical disaster
- C. Geological disaster
- D. Meteorological disaster



**- Rough Work -**

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