

P P SAVANI UNIVERSITY

Seventh Semester of B. Arch. Examination

December 2021

SAAR4210 Architecture Research Methods

23.12.2021, Wednesday

Time: 09:00 a.m. To 12:00p.m.

Maximum Marks: 100

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures/sketches wherever required.
4. Use of scientific calculator is allowed.

Q - 1 True or False

[20]

- (i) Architectural research is the search for new knowledge and new ideas about the built environment.
- (ii) Research can be conducted in a variety of sub disciplines, including building technology, environment-behavior studies, history of architecture and computing technology.
- (iii) In each area of architectural research, certain presuppositions and fundamental beliefs guide and determine the appropriate focus and method of inquiry, as well as the significance and merit of each research project.
- (iv) While the parameters of these research approaches vary, there are some common characteristics among them.
- (v) Architectural research efforts are those that have clearly identifiable goals at the outset of the research, where the project is directed to respond to a question
- (vi) SAS is a general-purpose statistical package with a basic programming capability utilizing scores of statistical and mathematical functions in numerous "modules"
- (vii) Quantitative & Qualitative Data means the same.
- (viii) Primary and secondary data means the same.
- (ix) Surveys are composed of carefully crafted questions on a topic or issue for the purpose of revealing information about community residents or services they utilize.
- (x) Focus group are a qualitative research method designed to learn more about how people think, feel, or make decisions (attitudes, perceptions, opinions, experiences) through focused discussions.
- (xi) The purpose of research is to discover answers to questions through the application of scientific procedures.
- (xii) There are 0 sub types of research.
- (xiii) Experimental approach is characterized by much greater control over the research environment and in this case some variables are manipulated to observe their effect on other variables.
- (xiv) The term 'simulation' in the context of business and social sciences applications refers to "the operation of a numerical model that represents the structure of a dynamic process.
- (xv) Research inculcates scientific and inductive thinking and it promotes the development of logical habits of thinking and organization.
- (xvii) Research in social sciences is concerned both with knowledge for its own sake and

- with knowledge for what it can contribute to practical concerns.
- (xviii) Research is equally important for social scientists in studying social relationships and in seeking answers to various social problems.
- (xix) Research methods may be understood as all those methods/techniques that are used for conduction of research. Research methods or techniques, thus, refer to the methods the researchers
- (xx) Research methods refer to the behavior and instruments used in selecting and constructing research technique.
- Q - 2 (a) What is hypothesis? [05]
 Q - 2 (b) What is primary data? [05]
- OR**
- Q - 2 (a) What is secondary data? [05]
 Q - 2 (b) What do you understand by survey? [05]
- Q - 3 (a) What are the different types of survey? [05]
 Q - 3 (b) Write the format in which a proposal is formulated. [05]
- Q - 4 (a) Explain quantitative research. [05]
 Q - 4 (b) Explain qualitative research. [05]
- Q - 5 (a) What is data? [05]
 Q - 5 (b) What are the different types of data? [05]
- Q - 6 What types of data are important in architecture research? [10]
- Attempt any 3**
- Q - 7 (a) Explain in your own words the importance of research. [10]
 Q - 7 (b) How is the relation of architecture & research? [10]
 Q - 7 (c) Prepare a detailed proposal of any research topic in the format. [10]
 Q - 7 (d) Explain & justify the reasons of selecting a research topic. [10]
