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Research in Technical Education

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Research in Technical Education 1

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Sub-Section Id :	864351824
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 86435115311 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The purpose of research in education is:

1. To generate new knowledge
2. To solve problems in the field
3. To evaluate the education policies, programmes, products etc.
4. All of the above

Options :

- 86435151799. 1
- 86435151800. 2
- 86435151801. 3
- 86435151802. 4

Question Number : 2 Question Id : 86435115312 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In case you are interested in determining the relevance and appropriateness of the given books (four) for your students, you will prefer undertaking:

1. Case study research
2. Content analysis research
3. Survey research
4. Follow-up study

Options :

- 86435151803. 1
- 86435151804. 2
- 86435151805. 3
- 86435151806. 4

Question Number : 3 Question Id : 86435115313 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Arrange the steps in undertaking research given below in the correct sequence:

- A. Selecting and defining a problem
- B. Collection and analysis of data
- C. Review of related literature
- D. Selecting research design and describing procedure

Choose the **correct** answer from the options given below

- 1. A, B, C, D
- 2. A, C, B, D
- 3. A, C, D, B
- 4. C, A, B, D

Options :

- 86435151807. 1
- 86435151808. 2
- 86435151809. 3
- 86435151810. 4

Question Number : 4 Question Id : 86435115314 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The purpose of action research is to:

1. Generate new knowledge
2. Find solution to a classroom problem faced by a teacher
3. Generalize the findings of basic research in the field
4. Evaluate a programme

Options :

86435151811. 1

86435151812. 2

86435151813. 3

86435151814. 4

Question Number : 5 Question Id : 86435115315 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is a type of research, based on classification of research, on the basis of method?

1. Descriptive research
2. Action research
3. Applied research
4. Basic research

Options :

86435151815. 1

86435151816. 2

86435151817. 3

86435151818. 4

Question Number : 6 Question Id : 86435115316 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you want to develop a new theory in your subject, you will undertake:

1. Action research
2. Applied research
3. Basic research
4. Evaluation research

Options :

- 86435151819. 1
- 86435151820. 2
- 86435151821. 3
- 86435151822. 4

Question Number : 7 Question Id : 86435115317 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If a researcher is interested in determining the relationship between JEE and performance in a four year degree programme in engineering, he will undertake:

1. Correlation research
2. Descriptive research
3. Experimental research
4. *Ex-post facto* research

Options :

- 86435151823. 1
- 86435151824. 2
- 86435151825. 3
- 86435151826. 4

Question Number : 8 Question Id : 86435115318 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the researcher is interested in studying the readiness of technical institutions for implementing the recommendations of New Education Policy regarding introduction of multidisciplinary studies, the type of research preferred will be:

1. Correlation research
2. Descriptive research
3. Experimental research
4. *Ex-post facto* research

Options :

- 86435151827. 1
- 86435151828. 2
- 86435151829. 3
- 86435151830. 4

Question Number : 9 Question Id : 86435115319 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you are interested in identifying the strategies adopted by an institution to develop virtual laboratories, you will prefer to undertake

1. Case study research
2. Content analysis research
3. Survey research
4. Tracer study

Options :

- 86435151831. 1
- 86435151832. 2
- 86435151833. 3
- 86435151834. 4

Question Number : 10 Question Id : 86435115320 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you are interested in studying the effect of structured industrial training on the practical skills and attitude towards practical work of third year students of industrial electronics, you will undertake:

1. Case study
2. Content analysis research
3. Experimental research
4. Survey study

Options :

- 86435151835. 1
- 86435151836. 2
- 86435151837. 3
- 86435151838. 4

Question Number : 11 Question Id : 86435115321 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In which of the following studies, *Ex-post facto* research will be preferred?

1. Determining the relevance of curricula of various courses.
2. Studying the effect of remedial instruction on achievement in Applied Physics.
3. Studying the effect of medium of instruction and type of school attended on the performance of students at degree level.
4. Predicting the success of students at degree level on the basis of performance in entrance examination.

Options :

- 86435151839. 1
- 86435151840. 2
- 86435151841. 3
- 86435151842. 4

Question Number : 12 Question Id : 86435115322 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is an example of descriptive research?

1. Effect of soft skill training on the employability skills of students.
2. Extent of implementation of TQM in industry in Faridabad.
3. Effect of parental education on the performance of students in Board examination.
4. Strategies adopted by Reliance in increasing the market share.

Options :

- 86435151843. 1
- 86435151844. 2
- 86435151845. 3
- 86435151846. 4

Question Number : 13 Question Id : 86435115323 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following research objectives CANNOT be a part of a descriptive study?

1. To study the extent of implementation of TQM in industry in Faridabad.
2. To ascertain the qualification and experience of teachers working at different levels in technical institutions in the state of Maharashtra.
3. To study the correlation among need achievement, mechanical aptitude and performance in four years degree programme.
4. To study the employment pattern of graduates from diploma institutions in the state of Kerala.

Options :

- 86435151847. 1
- 86435151848. 2
- 86435151849. 3
- 86435151850. 4

Question Number : 14 Question Id : 86435115324 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The hypothesis "There exists significant difference in the achievement in the course on software development of boys and girls taught through active learning strategies and lecture method" is appropriate for a:

1. Case study
2. Experimental study
3. Survey study
4. Correlation study

Options :

- 86435151851. 1
- 86435151852. 2
- 86435151853. 3
- 86435151854. 4

Question Number : 15 Question Id : 86435115325 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Predicting success in the course on the basis of scores obtained in the entrance examination is an example of:

1. Survey research
2. Correlation research
3. Ex-post facto research
4. Experimental research

Options :

- 86435151855. 1
- 86435151856. 2
- 86435151857. 3

86435151858. 4

Question Number : 16 Question Id : 86435115326 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In a prediction study, the data on the criterion variable can be collected:

1. Simultaneously with the predictor variable
2. Before collecting data on the predictor variable
3. After collecting data on the predictor variable
4. At any time

Options :

- 86435151859. 1
- 86435151860. 2
- 86435151861. 3
- 86435151862. 4

Question Number : 17 Question Id : 86435115327 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is an example of directional hypothesis?

1. Teachers with induction training programme are significantly more effective in teaching than the teachers without an induction training programme.
2. Autonomous institutions provide significantly greater autonomy to students than the non-autonomous institutions.
3. Female students show significantly higher academic achievement in external examinations than the male students.
4. All of the above.

Options :

- 86435151863. 1
- 86435151864. 2
- 86435151865. 3

86435151866. 4

Question Number : 18 Question Id : 86435115328 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following studies is an example of *Ex-post facto* research?

1. Effect of socio-economic-status on the performance of students in vocational programmes
2. Effect of direct instructional time on performance
3. Effect of the frequency of testing on the performance of students
4. Effect of learning through programmed instruction on performance

Options :

- 86435151867. 1
- 86435151868. 2
- 86435151869. 3
- 86435151870. 4

Question Number : 19 Question Id : 86435115329 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The purpose of review of related literature is to:

1. Formulate hypotheses for the study
2. Identify the gaps in existing research
3. Define the research problem
4. All of the above

Options :

- 86435151871. 1
- 86435151872. 2
- 86435151873. 3
- 86435151874. 4

Question Number : 20 Question Id : 86435115330 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

While undertaking the review of related literature, the researcher should first refer to:

1. Index of current journals
2. Journals
3. Theses
4. Review of reports

Options :

- 86435151875. 1
- 86435151876. 2
- 86435151877. 3
- 86435151878. 4

Question Number : 21 Question Id : 86435115331 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

As per APA style, which of the following is the correct reference for a journal article?

1. S.K. Dwivedi, and Y. P. Singh, (2012). Impact of Pre- service Teacher Education Training on Attitude towards Teaching of Prospective Teachers. Mangalmay Journal of Education and Pedagogy Vol. 3, No. 1, 15-21.
2. Dwivedi, S.K. and Singh, Y. P. (2012). Impact of Pre- service Teacher Education Training on Attitude towards Teaching of Prospective Teachers. *Mangalmay Journal of Education and Pedagogy* 3(1), 15-21.
3. Dwivedi, S.K. and Singh, Y. P. (2012). Impact of Pre- service Teacher Education Training on Attitude towards Teaching of Prospective Teachers. Mangalmay Journal of Education and Pedagogy 3(1), 2012. 15-21
4. S.K. Dwivedi, and Y. P. Singh, (2012). Impact of Pre- service Teacher Education Training on Attitude towards Teaching of Prospective Teachers. Mangalmay Journal of Education and Pedagogy Vol. 3, No. 1, 2012.

Options :

- 86435151879. 1
- 86435151880. 2
- 86435151881. 3
- 86435151882. 4

Question Number : 22 Question Id : 86435115332 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is a correct reference for an edited book cited in research work as per APA style?

1. Kesharwani, P. (Ed.) (2020). *Nanotechnology based approaches for tuberculosis treatment*. Academic Press.
2. P. Kesharwani (Ed.). (2020). *Nanotechnology based approaches for tuberculosis treatment*. Academic Press.
3. Kesharwani, P. (Ed.). *Nanotechnology based approaches for tuberculosis treatment*. Academic Press.(2020).
4. P. Kesharwani, (2020). *Nanotechnology based approaches for tuberculosis treatment*. Academic Press.

Options :

- 86435151883. 1
- 86435151884. 2
- 86435151885. 3
- 86435151886. 4

Question Number : 23 Question Id : 86435115333 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

While undertaking review of related literature, you want to narrow your search. To do so, you would prefer which one of the following BOOLEAN Algebra operations?

1. AND
2. OR
3. Both AND & NOT
4. Both AND & OR

Options :

- 86435151887. 1
- 86435151888. 2
- 86435151889. 3
- 86435151890. 4

Question Number : 24 Question Id : 86435115334 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following variables is a discrete variable?

1. Type of institution-Government/Government Aided/Self Financed
2. Achievement scores
3. Height
4. Weight

Options :

- 86435151891. 1
- 86435151892. 2
- 86435151893. 3
- 86435151894. 4

Question Number : 25 Question Id : 86435115335 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following questions can be answered through research?

1. What is meant by Autonomy?
2. Is it right to provide sex education in educational institutions?
3. Is it good to hire local staff?
4. Are the institutions of higher learning ready to implement choice based credit system in various programmes?

Options :

- 86435151895. 1
- 86435151896. 2
- 86435151897. 3
- 86435151898. 4

Question Number : 26 Question Id : 86435115336 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following could be the research question for a study "Effect of virtual internship training on creative problem solving and team work capabilities of students"?

1. What is the effect of virtual internship on creative problem solving capability of students?
2. What is the effect of virtual internship training on the teamwork capability?
3. Both (1) and (2)
4. Neither (1) nor (2)

Options :

- 86435151899. 1
- 86435151900. 2
- 86435151901. 3
- 86435151902. 4

Question Number : 27 Question Id : 86435115337 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following statements best describes the function of a research hypothesis?

1. An attempt to summarize the notion behind the research study.
2. An attempt to suggest a possible answer to a problem, based on available facts or information.
3. An attempt to link the research problem with the research question.
4. An attempt to consider the problem in the form of a scientific statement.

Options :

- 86435151903. 1
- 86435151904. 2
- 86435151905. 3
- 86435151906. 4

Question Number : 28 Question Id : 86435115338 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The hypothesis should NOT:

1. Be clearly written as a statement.
2. Be written prior to the collection of data.
3. Include all variables in the problem.
4. Indicate the relationship between variables.

Options :

- 86435151907. 1
- 86435151908. 2
- 86435151909. 3
- 86435151910. 4

Question Number : 29 Question Id : 86435115339 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Identify the independent variable in the following research problem: 'Effect of Problem Based Learning on the motivation and achievement of +2 students in Chemistry'.

1. Achievement
2. Problem based learning
3. Motivation
4. Both (2) & (3)

Options :

- 86435151911. 1
- 86435151912. 2
- 86435151913. 3
- 86435151914. 4

Question Number : 30 Question Id : 86435115340 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the purpose of your research is to study the readiness of students for online learning in the state of UP, you will prefer:

1. Case study method
2. Survey research method
3. Correlation research
4. Experimental research

Options :

- 86435151915. 1
- 86435151916. 2
- 86435151917. 3
- 86435151918. 4

Question Number : 31 Question Id : 86435115341 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the purpose of your research is to establish tentative cause and effect relationship between the type of school a student has attended and the proficiency in oral communication skills, you will use:

1. Correlation research
2. Experimental research
3. *Ex-post facto* research
4. Survey research

Options :

- 86435151919. 1
- 86435151920. 2
- 86435151921. 3
- 86435151922. 4

Question Number : 32 Question Id : 86435115342 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The action research method is depicted as a spiraling process because

1. Action researcher continues to study other topics of interest after the initial study is complete
2. Data collection continues throughout data analysis
3. Process continues even after the data are collected and analyzed, and actions are taken based on findings
4. Results are analyzed and used by other researchers to conduct additional investigations of the topic

Options :

- 86435151923. 1
- 86435151924. 2
- 86435151925. 3
- 86435151926. 4

Question Number : 33 Question Id : 86435115343 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The findings of action research are applicable on the:

1. Sample studied
2. Population
3. Both (1) and (2)
4. Neither (1) nor (2)

Options :

- 86435151927. 1
- 86435151928. 2
- 86435151929. 3
- 86435151930. 4

Question Number : 34 Question Id : 86435115344 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Any variable on which the measure is taken in order to determine whether the experimental condition has an effect is referred to:

1. Dependent variable
2. Extraneous variable
3. Independent variable
4. Control variable

Options :

- 86435151931. 1
- 86435151932. 2
- 86435151933. 3
- 86435151934. 4

Question Number : 35 Question Id : 86435115345 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In an experimental research, subjects are randomly assigned to groups so that:

1. The post test only design can be used
2. Non-equivalent groups are treated in the experiment
3. Minimize history threat to internal validity
4. Equivalent groups are compared on the treatment condition

Options :

86435151935. 1

86435151936. 2

86435151937. 3

86435151938. 4

Question Number : 36 Question Id : 86435115346 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Mr. Sohan's Mathematics class was not chosen to participate in a new computer based programme. His students were furious that they were not selected so they set out to show those researchers that they were better anyway. The results of the study would be confounded by the:

1. Hawthorne effect
2. John Henry effect
3. Placebo effect
4. Researcher effect

Options :

86435151939. 1

86435151940. 2

86435151941. 3

86435151942. 4

Question Number : 37 Question Id : 86435115347 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Internal validity refers to:

1. Controlling factors affecting the generalizability of the experiment
2. Controlling variables that can cause contamination within an experiment
3. Both (1) and (2)
4. Neither(1) Nor (2)

Options :

86435151943. 1

86435151944. 2

86435151945. 3

86435151946. 4

Question Number : 38 Question Id : 86435115348 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following situations signifies the use of Action Research?

A Director of the Technical Education of a State:

1. Needs to assess and compare the utilization of the resources available to technical institutions of different states
2. Needs to know the general profile of teachers working in the technical institutions
3. Is concerned with improving the office administration of his/her Directorate
4. Wants to determine the relationship between parental education and student achievement

Options :

86435151947. 1

86435151948. 2

86435151949. 3

86435151950. 4

Question Number : 39 Question Id : 86435115349 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a characteristic of action research?

1. Variables are tightly controlled
2. Results are generalizable
3. Results demonstrate cause-and-effect relationships
4. Findings are applicable in the context in which research is undertaken

Options :

86435151951. 1

86435151952. 2

86435151953. 3

86435151954. 4

Question Number : 40 Question Id : 86435115350 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If a researcher wants to select a sample of 100 from 1000 and selects every tenth unit, the sampling technique used is:

1. Purposive Sampling
2. Simple random Sampling
3. Systematic Sampling
4. Cluster Sampling

Options :

86435151955. 1

86435151956. 2

86435151957. 3

86435151958. 4

Question Number : 41 Question Id : 86435115351 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the population for a research consists of low, average and high socio-economic status groups, the preferred sampling technique will be:

1. Simple random sampling
2. Stratified sampling
3. Systematic sampling
4. Cluster sampling

Options :

- 86435151959. 1
- 86435151960. 2
- 86435151961. 3
- 86435151962. 4

Question Number : 42 Question Id : 86435115352 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If a researcher has no information about the population and seeks referrals of persons possessing a particular attribute, the sampling technique used is:

1. Volunteer sampling
2. Snowball sampling
3. Quota sampling
4. Purposive sampling

Options :

- 86435151963. 1
- 86435151964. 2
- 86435151965. 3
- 86435151966. 4

Question Number : 43 Question Id : 86435115353 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Minimum sample required for a correlation study is:

1. 5
2. 10
3. 20
4. 30

Options :

- 86435151967. 1
- 86435151968. 2
- 86435151969. 3
- 86435151970. 4

Question Number : 44 Question Id : 86435115354 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the population is unevenly dispersed geographically, the technique of sampling to be preferred is:

1. Cluster sampling
2. Simple random sampling
3. Stratified random sampling
4. Purposive sampling

Options :

- 86435151971. 1
- 86435151972. 2
- 86435151973. 3
- 86435151974. 4

Question Number : 45 Question Id : 86435115355 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you are interested in studying the reasons for students indulgence in drugs, you will prefer to select sample by using the technique of:

1. Cluster sampling
2. Simple random sampling
3. Stratified random sampling
4. Purposive sampling

Options :

- 86435151975. 1
- 86435151976. 2
- 86435151977. 3
- 86435151978. 4

Question Number : 46 Question Id : 86435115356 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The population consists of age groups- <25years, 25-45 years, 45-65 years and the percentage of these groups is 40%, 45% and 15% respectively. In case, you have to select a proportionate sample of 300 from the population of 1000, the number to be selected from each sub group will be:

1. 400, 450 and 150 respectively
2. 135,120 and 45 respectively
3. 120, 135 and 45 respectively
4. 100,100, and 100 respectively

Options :

- 86435151979. 1
- 86435151980. 2
- 86435151981. 3
- 86435151982. 4

Question Number : 47 Question Id : 86435115357 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a probability sampling technique?

1. Quota sampling
2. Systematic sampling
3. Simple random sampling
4. Stratified random sampling

Options :

- 86435151983. 1
- 86435151984. 2
- 86435151985. 3
- 86435151986. 4

Question Number : 48 Question Id : 86435115358 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

A member of the sample is known as a/an:

1. Element
2. Population
3. Sampling unit
4. Sampling frame

Options :

- 86435151987. 1
- 86435151988. 2
- 86435151989. 3
- 86435151990. 4

Question Number : 49 Question Id : 86435115359 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

A smaller proportion of sample will be appropriate when:

1. Population is large
2. Population is heterogeneous
3. Population is large and homogeneous
4. Population is large and heterogeneous

Options :

- 86435151991. 1
- 86435151992. 2
- 86435151993. 3
- 86435151994. 4

Question Number : 50 Question Id : 86435115360 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you are interested in determining adequacy and modernization of laboratories related to Computer Engineering, which of the following would you use?

1. Questionnaire
2. Observation schedule
3. Questionnaire and observation schedule
4. Questionnaire and interview schedule

Options :

- 86435151995. 1
- 86435151996. 2
- 86435151997. 3
- 86435151998. 4

Question Number : 51 Question Id : 86435115361 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you are interested in finding out the type of questions posed and the kind of feedback provided by the teachers, you will prefer a:

1. Questionnaire
2. Observation schedule
3. Structured interview schedule
4. Semi-structured interview schedule

Options :

- 86435151999. 1
- 86435152000. 2
- 86435152001. 3
- 86435152002. 4

Question Number : 52 Question Id : 86435115362 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The question 'How do you evaluate your students in theory'? is an example of:

1. Alternate response type question
2. Broad question
3. Multiple choice question
4. Specific question

Options :

- 86435152003. 1
- 86435152004. 2
- 86435152005. 3
- 86435152006. 4

Question Number : 53 Question Id : 86435115363 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Interview schedule containing all the specific questions to be posed is an example of:

1. Structured interview schedule
2. Semi-structured interview schedule
3. Unstructured interview schedule
4. All of the above

Options :

- 86435152007. 1
- 86435152008. 2
- 86435152009. 3
- 86435152010. 4

Question Number : 54 Question Id : 86435115364 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

To validate the data collected through questionnaires, the researcher can:

1. Take interviews of selected sample
2. Make observations of the ongoing process or resources
3. Both (1) & (2)
4. Neither(1) Nor (2)

Options :

- 86435152011. 1
- 86435152012. 2
- 86435152013. 3
- 86435152014. 4

Question Number : 55 Question Id : 86435115365 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In case, you want to evaluate a MOOC, you will include questions related to:

1. Quality of content
2. Quality of Videos
3. Quality of interaction
4. All of the options

Options :

86435152015. 1

86435152016. 2

86435152017. 3

86435152018. 4

Question Number : 56 Question Id : 86435115366 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The question 'Is evaluation continuous and objective' is incorrect because:

1. Inappropriately worded
2. It includes two aspects
3. Lacks clarity
4. Grammatically incorrect

Options :

86435152019. 1

86435152020. 2

86435152021. 3

86435152022. 4

Question Number : 57 Question Id : 86435115367 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

While using a rating scale, the scale should be:

1. Three point
2. Five point
3. Seven point
4. Any of the options

Options :

- 86435152023. 1
- 86435152024. 2
- 86435152025. 3
- 86435152026. 4

Question Number : 58 Question Id : 86435115368 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If more than one person is involved in collection of data/information through interviews, it is essential that:

1. Purpose be made clear
2. Interview schedule be explained
3. Training be provided
4. All of the above

Options :

- 86435152027. 1
- 86435152028. 2
- 86435152029. 3
- 86435152030. 4

Question Number : 59 Question Id : 86435115369 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The variable Gender provides data on:

1. Nominal scale
2. Ordinal scale
3. Interval scale
4. Ratio scale

Options :

86435152031. 1

86435152032. 2

86435152033. 3

86435152034. 4

Question Number : 60 Question Id : 86435115370 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Scores obtained by students out of 20 in an assignment are on:

1. Nominal scale
2. Ordinal scale
3. Interval scale
4. Ratio scale

Options :

86435152035. 1

86435152036. 2

86435152037. 3

86435152038. 4

Question Number : 61 Question Id : 86435115371 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you rank in order your fifteen students on the basis of how cooperative they are by assigning 'one' to the most cooperative and 'fifteen' to the least cooperative, the data will be available on:

1. Nominal scale
2. Ordinal scale
3. Interval scale
4. Ratio scale

Options :

- 86435152039. 1
- 86435152040. 2
- 86435152041. 3
- 86435152042. 4

Question Number : 62 Question Id : 86435115372 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

While collecting data through structured interview schedule, the researcher should NOT:

1. Use the same wording
2. Pose questions in the same sequence
3. Pose additional probing questions
4. Record answer of the respondent

Options :

- 86435152043. 1
- 86435152044. 2
- 86435152045. 3
- 86435152046. 4

Question Number : 63 Question Id : 86435115373 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

An interviewer should possess which of the following skills?

1. Listening
2. Observation
3. Posing a question
4. All of the above

Options :

- 86435152047. 1
- 86435152048. 2
- 86435152049. 3
- 86435152050. 4

Question Number : 64 Question Id : 86435115374 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The first step in designing a questionnaire/interview schedule is to:

1. State the purpose of the study
2. State the objectives of the study
3. Write the criterion question
4. Write research questions

Options :

- 86435152051. 1
- 86435152052. 2
- 86435152053. 3
- 86435152054. 4

Question Number : 65 Question Id : 86435115375 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Incomplete questionnaires need to be:

1. Completed by the researcher before inclusion in data
2. Excluded from the study
3. Included as such in the study
4. Sent to respondents for completion

Options :

86435152055. 1

86435152056. 2

86435152057. 3

86435152058. 4

Question Number : 66 Question Id : 86435115376 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Memos need to be prepared in case of information collected through:

1. Observation schedules
2. Structured interview schedules
3. Semi-structured interview schedules
4. Questionnaires

Options :

86435152059. 1

86435152060. 2

86435152061. 3

86435152062. 4

Question Number : 67 Question Id : 86435115377 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Try-out/Field Test of a questionnaire is essential to find out its:

1. Validity
2. Reliability
3. Appropriateness
4. All of the above

Options :

86435152063. 1

86435152064. 2

86435152065. 3

86435152066. 4

Question Number : 68 Question Id : 86435115378 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following are the measures of central tendency ?

1. Mean
2. Median
3. Mode
4. All of the above

Options :

86435152067. 1

86435152068. 2

86435152069. 3

86435152070. 4

Question Number : 69 Question Id : 86435115379 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The total area of the normal distribution curve is said to cover approximately:

1. 34% of the cases
2. 68% of the cases
3. 95% of the cases
4. 100% of the cases

Options :

- 86435152071. 1
- 86435152072. 2
- 86435152073. 3
- 86435152074. 4

Question Number : 70 Question Id : 86435115380 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you want to compare the mean performance of students in Electrical, Mechanical and Electronics Engineering Programme, you will prefer to use:

1. Correlation
2. t-Test
3. Analysis of Variance
4. Analysis of Covariance

Options :

- 86435152075. 1
- 86435152076. 2
- 86435152077. 3
- 86435152078. 4

Question Number : 71 Question Id : 86435115381 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you have ranks of ten students for Communication Effectiveness and Interpersonal Relations, you will use:

1. Bi-serial Correlation
2. Chi-square
3. Pearson Product Moment correlation
4. Rank order Correlation

Options :

- 86435152079. 1
- 86435152080. 2
- 86435152081. 3
- 86435152082. 4

Question Number : 72 Question Id : 86435115382 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The most frequently occurring score in a distribution is called:

1. Mean
2. Median
3. Mode
4. Range

Options :

- 86435152083. 1
- 86435152084. 2
- 86435152085. 3
- 86435152086. 4

Question Number : 73 Question Id : 86435115383 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In addition to other components of a proposal, the funding proposal needs to include:

1. Affiliation
2. Brief profile of the researcher/CV
3. Sponsored projects accomplished
4. All of the above

Options :

- 86435152087. 1
- 86435152088. 2
- 86435152089. 3
- 86435152090. 4

Question Number : 74 Question Id : 86435115384 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The primary purpose of inclusion of past research in the proposal is to:

1. Demonstrate your knowledge
2. Identify the gaps in research
3. Support the findings
4. Relate the findings of various studies

Options :

- 86435152091. 1
- 86435152092. 2
- 86435152093. 3
- 86435152094. 4

Question Number : 75 Question Id : 86435115385 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which section of the proposal is likely to include a statement of the problem in the research proposal?

1. Introduction
2. Literature review
3. Proposed methodology
4. References

Options :

- 86435152095. 1
- 86435152096. 2
- 86435152097. 3
- 86435152098. 4

Question Number : 76 Question Id : 86435115386 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is true about the use of language in research reports as per APA guidelines?

1. You should choose accurate and clear words that are free from bias
2. You should avoid labeling people whenever possible
3. You should avoid using the term "subjects" whenever possible
4. All of the above

Options :

- 86435152099. 1
- 86435152100. 2
- 86435152101. 3
- 86435152102. 4

Question Number : 77 Question Id : 86435115387 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is the correct sequence of a normally structured report?

1. Introduction, Methods and Procedure, Analysis of Data and Results, Summary and Conclusions
2. Introduction, Review of related literature, Methods and Procedure, Analysis of Data and Results, Summary and Conclusions
3. Introduction, Review of related literature, Analysis of Data and Results, Summary and Conclusions, References
4. Introduction, Methods and Procedure, Analysis of Data and Results, References

Options :

- 86435152103. 1
- 86435152104. 2
- 86435152105. 3
- 86435152106. 4

Question Number : 78 Question Id : 86435115388 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What is the purpose of the conclusion in a research report?

1. It explains how concepts were operationally defined and measured
2. It contains a useful review of the relevant literature
3. It outlines the methodological procedures that were employed
4. It summarizes the key findings in relation to the research questions

Options :

- 86435152107. 1
- 86435152108. 2
- 86435152109. 3
- 86435152110. 4

Question Number : 79 Question Id : 86435115389 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Evaluation of a thesis can be:

1. Formative
2. Summative
3. Both (1) &(2)
4. Neither (1) Nor (2)

Options :

- 86435152111. 1
- 86435152112. 2
- 86435152113. 3
- 86435152114. 4

Question Number : 80 Question Id : 86435115390 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

As an examiner for a thesis, while you evaluate the chapter on methods and procedure, you will focus on:

1. Appropriateness of research design
2. Adequacy and appropriateness of sample
3. Validity and reliability of measuring tools
4. All of the above

Options :

- 86435152115. 1
- 86435152116. 2
- 86435152117. 3
- 86435152118. 4

Question Number : 81 Question Id : 86435115391 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

While writing findings, you will write the findings:

1. In accordance with the hypotheses of the study
2. In the order in which data was collected
3. In the order in which data was analyzed
4. By presenting the most significant findings first

Options :

86435152119. 1

86435152120. 2

86435152121. 3

86435152122. 4

Question Number : 82 Question Id : 86435115392 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In the thesis, while presenting findings of the study, researcher should:

1. Present findings correctly
2. Interpret the findings correctly
3. Relate the findings with the findings of past studies
4. All of the above

Options :

86435152123. 1

86435152124. 2

86435152125. 3

86435152126. 4

Question Number : 83 Question Id : 86435115393 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you have subject matter expertise, but the project you want to apply requires knowledge of AI which is not available in your institution, what will you do?

1. Do not apply for the project
2. Submit partial proposal
3. Collaborate with the expert from another organization
4. Ask your institution to hire a person with that expertise

Options :

- 86435152127. 1
- 86435152128. 2
- 86435152129. 3
- 86435152130. 4

Question Number : 84 Question Id : 86435115394 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the scores in four year degree programme in mechanical engineering are to be predicted on the basis of mechanical aptitude, joint entrance examination and first year performance, the statistical technique used will be:

1. Multiple regression
2. Pearson Product moment correlation
3. Point bi-serial correlation
4. Chi- square

Options :

- 86435152131. 1
- 86435152132. 2
- 86435152133. 3
- 86435152134. 4

Question Number : 85 Question Id : 86435115395 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If teaching sessions are recorded for newly recruited faculty and then analyzed by experts, the technique used is referred to as:

1. Critical incident
2. Content analysis
3. Observation
4. Sociometric

Options :

- 86435152135. 1
- 86435152136. 2
- 86435152137. 3
- 86435152138. 4

Question Number : 86 Question Id : 86435115396 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the researcher is interested in how Punjab University has given impetus to research, which of the following questions will form part of the semi-structured interview schedule?

1. What strategies were adopted to build research capability among the faculty?
2. How the priority areas of research were identified?
3. Both(1) &(2)
4. Neither(1) nor(2)

Options :

- 86435152139. 1
- 86435152140. 2
- 86435152141. 3
- 86435152142. 4

Question Number : 87 Question Id : 86435115397 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A random sampling technique is used to select a sample that will:

1. Include the correct number of subjects
2. Be stratified
3. Yield generalizable data
4. Yield research findings that are statistically significant

Options :

86435152143. 1

86435152144. 2

86435152145. 3

86435152146. 4

Question Number : 88 Question Id : 86435115398 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

R $O_1 \times O_2$

R $O_3 \quad O_4$

represents:

1. Post test only design
2. One group pre test post test design
3. Pre test post test control group design
4. Post test only control group design

Options :

86435152147. 1

86435152148. 2

86435152149. 3

86435152150. 4

Question Number : 89 Question Id : 86435115399 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following correlation values is greater than the others?

1. -.40
2. -.50
3. .60
4. -.80

Options :

- 86435152151. 1
- 86435152152. 2
- 86435152153. 3
- 86435152154. 4

Question Number : 90 Question Id : 86435115400 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is a directional hypothesis?

1. Students taught through Problem Based learning show significantly higher mean performance than students taught through discussion method.
2. Boys show significantly more readiness for online learning than girls.
3. Both (1) & (2)
4. Neither (1) Nor (2)

Options :

- 86435152155. 1
- 86435152156. 2
- 86435152157. 3
- 86435152158. 4

Question Number : 91 Question Id : 86435115401 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following questions can be answered through case study research?

1. What is the impact of TEQIP III on the technical education system?
2. Why students of Institution A scored more than the students of Institution B?
3. Both (1) & (2)
4. Neither (1) Nor (2)

Options :

- 86435152159. 1
- 86435152160. 2
- 86435152161. 3
- 86435152162. 4

Question Number : 92 Question Id : 86435115402 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Hypothesis should NOT be:

1. Stated in question form
2. Testable
3. Plausible
4. Developed prior to collection of data

Options :

- 86435152163. 1
- 86435152164. 2
- 86435152165. 3
- 86435152166. 4

Question Number : 93 Question Id : 86435115403 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The technique of triangulation in research refers to:

1. Collection of data from various sources
2. Collection of data through variety of tools
3. Collection of data at multiple times
4. Both (1) & (2)

Options :

86435152167. 1

86435152168. 2

86435152169. 3

86435152170. 4

Question Number : 94 Question Id : 86435115404 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In case you are interested in determining the changes in career graph of graduates of 2016 working in industry every three years, you would prefer:

1. Case study
2. Ex-post facto study
3. Experimental study
4. Panel study

Options :

86435152171. 1

86435152172. 2

86435152173. 3

86435152174. 4

Question Number : 95 Question Id : 86435115405 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In case, the past studies provide contradictory findings related to the relationship between teachers effectiveness and achievement of students, which one of the following will be an appropriate hypothesis?

1. There exists significant relationship between the teacher effectiveness and student achievement
2. Higher the teaching effectiveness higher will be the student achievement
3. Higher the teachers effectiveness, lower will be the student achievement
4. There exists no relationship between teachers effectiveness and achievement of students

Options :

- 86435152175. 1
- 86435152176. 2
- 86435152177. 3
- 86435152178. 4

Question Number : 96 Question Id : 86435115406 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In the field of education research, APA stands for:

1. American Physics Association
2. American Psychological Association
3. American Psychiatric Association
4. American Philosophical Association

Options :

- 86435152179. 1
- 86435152180. 2
- 86435152181. 3
- 86435152182. 4

Question Number : 97 Question Id : 86435115407 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Annotated bibliography refers to:

1. References with a brief about the publication
2. List of references
3. List of reference list with review
4. List of references in an alphabetical order

Options :

- 86435152183. 1
- 86435152184. 2
- 86435152185. 3
- 86435152186. 4

Question Number : 98 Question Id : 86435115408 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following can be considered as a longitudinal study?

1. Job profile of graduates from the institute after ten years.
2. Follow-up study of graduates performance in field for ten years.
3. Reactions of graduates towards the curriculum and instructional processes.
4. Leadership style and Emotional Intelligence of graduates working as Managers in Industry.

Options :

- 86435152187. 1
- 86435152188. 2
- 86435152189. 3
- 86435152190. 4

Question Number : 99 Question Id : 86435115409 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If you are interested in studying the effect of positive and negative reinforcement on the motivation and achievement of students, you will manipulate the variable of:

1. Reinforcement
2. Achievement
3. Motivation
4. Instructional strategy

Options :

- 86435152191. 1
- 86435152192. 2
- 86435152193. 3
- 86435152194. 4

Question Number : 100 Question Id : 86435115410 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Internal validity of the experimental study can be increased by:

1. Manipulating the independent variable
2. Studying the effect on dependent variable
3. Controlling extraneous variable
4. Repeating experiment in various settings

Options :

- 86435152195. 1
- 86435152196. 2
- 86435152197. 3
- 86435152198. 4