

National Testing Agency

Question Paper Name :	Research in Technical Education 30 Sep 2020 Shift 2
Subject Name :	Research in Technical Education
Creation Date :	2020-09-30 18:37:39
Duration :	180
Number of Questions :	100
Total Marks :	100
Display Marks:	Yes

Research in Technical Education

Group Number :	1
Group Id :	899514208
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Research in Technical Education

Section Id :	899514288
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100

Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	899514333
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 89951417699 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which one of the following statements describes the characteristics of research?

1. research is systematic
2. research makes use of both inductive and deductive reasoning
3. research is cyclic
4. research is systematic and uses a scientific method of inquiry

Options :

89951469198. 1
89951469199. 2
89951469200. 3
89951469201. 4

Question Number : 2 Question Id : 89951417700 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which one of the following is 'NOT' an example of research?

1. a study on the effect of the level of aspiration on the achievement of technician students
2. preparation of a project report for establishing a National Institute of Technical Teacher Training in a country
3. a survey of the job requirements of instruments engineering technicians in a country
4. development of learning modules on construction management and testing their effectiveness in regard to achievement and attitudes of civil engineering students

Options :

89951469202. 1

89951469203. 2

89951469204. 3

89951469205. 4

Question Number : 3 Question Id : 89951417701 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 :

89951469206. 1

89951469207. 2

89951469208. 3

89951469209. 4

Question Number : 4 Question Id : 89951417702 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

A researcher went through the following steps in conducting a study:

- i Formulation of the problem;
- ii. Review of literature;
- iii. Describing methodology of research;
- iv. Collection of data;
- v. Analysis of results;
- vi. Stating hypotheses;
- vii. Interpretation of results;
- viii. Writing research report.

Which one of the following sequences should have been the preferred order of conducting the above steps?

- 1. i, vi, ii, iii, iv, v, vii, viii
- 2. i, ii, vi, iii, iv, v, vii, viii
- 3. i, vi, iii, iv, ii, v, vii, viii
- 4. i, vi, iii, ii, iv, v, vii, viii

Options :

89951469210. 1

89951469211. 2

89951469212. 3

89951469213. 4

Question Number : 5 Question Id : 89951417703 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Experimental research aims at determining

1. the current status of processes, opinion etc.
2. relationship between two or more two variables
3. tentative cause and effect relationships
4. true cause and effect relationships

Options :

89951469214. 1

89951469215. 2

89951469216. 3

89951469217. 4

Question Number : 6 Question Id : 89951417704 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements will NOT be of interest to the researcher when reading through literature on the research problem?

1. the results obtained by other researchers
2. the length of the written article or report
3. the methodologies employed in existing studies
4. the bias introduced by the author

Options :

89951469218. 1

89951469219. 2

89951469220. 3

89951469221. 4

Question Number : 7 Question Id : 89951417705 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following sources is LEAST likely to contain information of a primary nature?

1. a university handbook
2. a research report
3. a conference paper
4. a journal article

Options :

89951469222. 1

89951469223. 2

89951469224. 3

89951469225. 4

Question Number : 8 Question Id : 89951417706 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In commencing the search for literature, the researcher should approach the task

1. randomly, so as to be open to new ideas
2. systematically, so as to be thorough in coverage
3. cautiously, so as to limit the quantity of literature
4. spontaneously, so as to be aware of creative approaches

Options :

89951469226. 1

89951469227. 2

89951469228. 3

89951469229. 4

Question Number : 9 Question Id : 89951417707 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements best describes an Abstract?

1. an alphabetical cross reference of terms
2. an abridged dissertation
3. a summary of a written work
4. an index to terms used in a work

Options :

89951469230. 1

89951469231. 2

89951469232. 3

89951469233. 4

Question Number : 10 Question Id : 89951417708 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Journals are the best means for accessing current research findings because they

1. publish empirical studies
2. have a monopoly on current literature
3. relate to research in one discipline
4. are published periodically

Options :

89951469234. 1

89951469235. 2

89951469236. 3

89951469237. 4

Question Number : 11 Question Id : 89951417709 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Having decided on a research problem, the most logical first step in the search for literature is

1. to locate secondary sources
2. to compile a list of key words
3. to obtain preliminary sources
4. to locate primary sources

Options :

89951469238. 1

89951469239. 2

89951469240. 3

89951469241. 4

Question Number : 12 Question Id : 89951417710 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The reading technique that would be employed to gain an overview of an article or report is

1. skimming
2. scanning
3. pre-reading
4. key-reading

Options :

89951469242. 1

89951469243. 2

89951469244. 3

89951469245. 4

Question Number : 13 Question Id : 89951417711 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

By collating information before commencing the writing of the literature review, the researcher can ensure that the:

1. information is written on the note cards
2. coding system can be interpreted
3. information is relevant to the research problem
4. direct quotations have been written accurately

Options :

- 89951469246. 1
- 89951469247. 2
- 89951469248. 3
- 89951469249. 4

Question Number : 14 Question Id : 89951417712 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is the source of problem situations in educational research?

1. A critical survey of literature
2. Interaction with others during seminars/conferences
3. Personal practical experience
4. All of the above

Options :

- 89951469250. 1
- 89951469251. 2
- 89951469252. 3
- 89951469253. 4

Question Number : 15 Question Id : 89951417713 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following explains 'researcher's capabilities and limitations' as the criterion in the selection of a research problem?

1. Answers may not be forthcoming if the researcher does not know the dimensions or parameters of the problem
2. A researcher's experience will determine the scope of the study as overly ambitious projects rarely get completed
3. Even though a problem may be extremely valuable, if the researcher is unenthusiastic the quality of the research may suffer
4. Little is gained by duplicating an existing study, research findings need to expand knowledge

Options :

89951469254. 1

89951469255. 2

89951469256. 3

89951469257. 4

Question Number : 16 Question Id : 89951417714 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following problem situations poses a specific rather than a general research problem?

1. How will education affect teachers?
2. How relevant are core subjects in various courses?
3. How important is the role of principals in technician education?
4. How do two instructional methods differ in arc welding classes?

Options :

89951469258. 1
89951469259. 2
89951469260. 3
89951469261. 4

Question Number : 17 Question Id : 89951417715 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

In educational research, a research variable is a:

1. characteristic which can be measured
2. characteristic which can be quantified
3. particular characteristic which all members of a set possess
4. particular characteristic which specific members of a set possess

Options :

89951469262. 1
89951469263. 2
89951469264. 3
89951469265. 4

Question Number : 18 Question Id : 89951417716 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which one of the following variables is NOT a discrete variable?

1. Age
2. Gender
3. Marital Status
4. Place of Residence

Options :

89951469266. 1
89951469267. 2

89951469268. 3

89951469269. 4

Question Number : 19 Question Id : 89951417717 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following studies is 'NOT' an example of descriptive research?

1. a study on the learning styles of technician students for designing appropriate instructional strategies
2. a study describing the utilization of equipment and space in a polytechnic
3. a study of the practices followed for appraising and recruiting staff in technical institutions
4. a study describing the self-concept of students and the prediction of their performance

Options :

89951469270. 1

89951469271. 2

89951469272. 3

89951469273. 4

Question Number : 20 Question Id : 89951417718 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Case Study method of research is useful in

1. exercising control on variables that interfere with those to be studied
2. generating hypotheses, explaining problems and relationships in a situation
3. deriving generalizations
4. making a comparative study of the conditions existing in different situations

Options :

- 89951469274. 1
- 89951469275. 2
- 89951469276. 3
- 89951469277. 4

Question Number : 21 Question Id : 89951417719 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The first step in planning a case study is

1. selecting the unit of study
2. identifying the sources from where data are to be obtained
3. formulating objectives of the study
4. constructing observational schedules

Options :

- 89951469278. 1
- 89951469279. 2
- 89951469280. 3
- 89951469281. 4

Question Number : 22 Question Id : 89951417720 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Census carried out every ten years is an example of

1. case study research
2. action research
3. sample survey
4. population survey

Options :

- 89951469282. 1

89951469283. 2

89951469284. 3

89951469285. 4

Question Number : 23 Question Id : 89951417721 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Developing classification system for analysis is required in

1. case study research
2. content analysis research
3. sample survey
4. population survey

Options :

89951469286. 1

89951469287. 2

89951469288. 3

89951469289. 4

Question Number : 24 Question Id : 89951417722 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Correlation refers to:

1. the casual relationship between two variables
2. the association between two variables
3. the proportion of variance that two variables share
4. a statistical method that can only be used with a correlation research design

Options :

89951469290. 1

89951469291. 2

89951469292. 3

89951469293. 4

Question Number : 25 Question Id : 89951417723 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is an example of a correlational study?

1. Comparing the performance of two groups of students on their problem solving skills
2. Relating the performance of students in the English language with their performance in mathematics
3. Comparing the facilities, in respect of equipment and space provided for different technical institutions in a state.
4. Describing the learning environment of different classes in an institute

Options :

89951469294. 1

89951469295. 2

89951469296. 3

89951469297. 4

Question Number : 26 Question Id : 89951417724 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

For a perfect positive correlation, the value of “r” is

1. - 1.0
2. + 1.0
3. 0
4. 0.3

Options :

89951469298. 1
89951469299. 2
89951469300. 3
89951469301. 4

Question Number : 27 Question Id : 89951417725 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following values for a correlation coefficient, indicate greater relationship between two variables?

1. +0.30
2. +0.60
3. -0.80
4. 0.00

Options :

89951469302. 1
89951469303. 2
89951469304. 3
89951469305. 4

Question Number : 28 Question Id : 89951417726 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is the main limitation of Ex-Post-Facto research?

1. Cause cannot be manipulated
2. Directional hypotheses cannot be tested
3. It does not permit study of control groups
4. It is more time consuming than other method or research

Options :

89951469306. 1
89951469307. 2
89951469308. 3
89951469309. 4

Question Number : 29 Question Id : 89951417727 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Ex-Post-Facto research means the research which is carried out:

1. after the incident
2. along with happening of the incident
3. keeping in mind the possibilities of the incident
4. prior to the incident

Options :

89951469310. 1
89951469311. 2
89951469312. 3
89951469313. 4

Question Number : 30 Question Id : 89951417728 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT an example of Ex-Post-Facto research problem?

1. Determining the factors that led to low skills of engineering graduates in engineering drawing
2. Determining the factors associated with low motivation/burn-out of technical teachers
3. Determining the appropriateness of method of instruction
4. Identifying possible determinants of the road accidents

Options :

- 89951469314. 1
- 89951469315. 2
- 89951469316. 3
- 89951469317. 4

Question Number : 31 Question Id : 89951417729 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following needs to be considered while stating problems in an Ex-Post-Facto research study?

1. Stating the problem in the form of an objective when it is not possible to predict the difference between the defined and the comparison groups
2. Write as many alternative hypotheses as possible
3. Both (a) and (b)
4. Neither (a) nor (b)

Options :

- 89951469318. 1
- 89951469319. 2
- 89951469320. 3
- 89951469321. 4

Question Number : 32 Question Id : 89951417730 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is true in case of Ex-Post-Facto Research?

1. Explanation of interaction is most effective with this method
2. Historical data are used to identify potential cause-and-effect relationships
3. The researcher manipulates one or more variables
4. The researcher can control for the effect of extraneous variables

Options :

- 89951469322. 1
- 89951469323. 2
- 89951469324. 3
- 89951469325. 4

Question Number : 33 Question Id : 89951417731 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following describes 'Any variable on which the measure is taken in order to determine whether the experimental condition has had an effect?'

- 1. dependent variable
- 2. extraneous variable
- 3. independent variable
- 4. none of the above

Options :

- 89951469326. 1
- 89951469327. 2
- 89951469328. 3
- 89951469329. 4

Question Number : 34 Question Id : 89951417732 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following statements does NOT apply to experimental research?

- 1. it is a mean by which cause-and-effect relationships are established
- 2. it may take place in a classroom as well as in a laboratory
- 3. it employs ex-post-facto procedures
- 4. it makes multi variable comparisons possible

Options :

- 89951469330. 1
- 89951469331. 2
- 89951469332. 3
- 89951469333. 4

Question Number : 35 Question Id : 89951417733 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Internal validity refers to:

- 1. an inadequate description of the variables within the experiment
- 2. controlling factors affecting the generalizability of the experiment
- 3. controlling variables that cause contamination within the experiment
- 4. the effect of maturation on the experiment

Options :

- 89951469334. 1
- 89951469335. 2
- 89951469336. 3
- 89951469337. 4

Question Number : 36 Question Id : 89951417734 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Testing is most likely to negatively affect internal validity when the:

- 1. information tested is attitudinal in nature
- 2. instrument is unreliable
- 3. participants are very low scorers
- 4. time between pre-test and post-test is short

Options :

89951469338. 1
89951469339. 2
89951469340. 3
89951469341. 4

Question Number : 37 Question Id : 89951417735 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 program. 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 :

89951469342. 1
89951469343. 2
89951469344. 3
89951469345. 4

Question Number : 38 Question Id : 89951417736 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is characteristic of action research?

1. Variables are tightly controlled
2. Results are generalizable
3. Results demonstrate cause-and-effect relationships
4. Data are usually qualitative

Options :

89951469346. 1

89951469347. 2

89951469348. 3

89951469349. 4

Question Number : 39 Question Id : 89951417737 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following is NOT a characteristic of Action Research?

1. It makes rigorous use of the scientific method
2. It employs the use of formative evaluation
3. The members involved in conducting the research are also responsible for implementation
4. The study relates to a specific situation

Options :

89951469350. 1

89951469351. 2

89951469352. 3

89951469353. 4

Question Number : 40 Question Id : 89951417738 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following indicates the purpose of Action Research?

1. Arriving at generalizations
2. Comparing the effectiveness of alternative approaches to conducting a process component of a system
3. Solving local problems
4. Testing hypotheses

Options :

89951469354. 1

89951469355. 2

89951469356. 3

89951469357. 4

Question Number : 41 Question Id : 89951417739 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Many universities do not allow action research studies to satisfy dissertation requirements, most likely, because:

1. findings are not immediately useful
2. results are not of broad relevance
3. Both (a) and (b)
4. Neither (a) nor (b)

Options :

89951469358. 1

89951469359. 2

89951469360. 3

89951469361. 4

Question Number : 42 Question Id : 89951417740 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In which of the following research methods is the researcher involved in the acts under study that he/she causes changes and monitor the outcomes?

1. Survey Research
2. Historical Research
3. Case Study
4. Action Research

Options :

89951469362. 1

89951469363. 2

89951469364. 3

89951469365. 4

Question Number : 43 Question Id : 89951417741 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A statistical measure based upon the entire population is called parameter, while measure based upon a sample is known as

1. Inference
2. Statistics
3. Sample Parameter
4. None of the above

Options :

89951469366. 1

89951469367. 2

89951469368. 3

89951469369. 4

Question Number : 44 Question Id : 89951417742 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following sampling methods is based on probability?

1. Quota Sampling
2. Stratified Sampling
3. Judgemental Sampling
4. Convenience Sampling

Options :

89951469370. 1

89951469371. 2

89951469372. 3

89951469373. 4

Question Number : 45 Question Id : 89951417743 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which technique is generally followed when the population is infinite?

1. Systematic sampling
2. Purposive sampling
3. Area sampling
4. Convenience sampling

Options :

89951469374. 1

89951469375. 2

89951469376. 3

89951469377. 4

Question Number : 46 Question Id : 89951417744 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Suppose you want to investigate the skill efficiency of technical graduates in India, which of the following would you follow

1. Area Sampling
2. Quota Sampling
3. Convenience Sampling
4. Multistage Sampling

Options :

89951469378. 1

89951469379. 2

89951469380. 3

89951469381. 4

Question Number : 47 Question Id : 89951417745 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following need NOT be considered when determining the size of the sample?

1. The nature of interacting variables
2. The homogeneity of the population
3. the cost allocated to the research study
4. the degree of accuracy with which the sample will reflect the population

Options :

89951469382. 1

89951469383. 2

89951469384. 3

89951469385. 4

Question Number : 48 Question Id : 89951417746 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements best describes a stratified random sample? A sample drawn:

1. independently and systematically from each stratum of the population
2. purposively and systematically from a stratum of the population
3. purposively and randomly from a stratum of the population.
4. independently and randomly from each stratum of the population

Options :

89951469386. 1

89951469387. 2

89951469388. 3

89951469389. 4

Question Number : 49 Question Id : 89951417747 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A good measuring instrument should be

1. reliable
2. valid
3. feasible
4. all of the above

Options :

89951469390. 1

89951469391. 2

89951469392. 3

89951469393. 4

Question Number : 50 Question Id : 89951417748 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The steps in developing a questionnaire include the following:

- i. Writing questions
- ii. Editing the questions
- iii. Assembling the questionnaire
- iv. Arriving at content of questionnaire
- v. Try out the questionnaire
- vi. Expert Validation
- vii. Finalization of the questionnaire

The correct sequence of these steps is

1. iv - i - ii - iii - vi - v - vii
2. i - ii - iii - iv - v - vi - vii
3. iv - iii - ii - i - vii - v - vi
4. i - ii - iii - vii - vi - v - iv

Options :

89951469394. 1

89951469395. 2

89951469396. 3

89951469397. 4

Question Number : 51 Question Id : 89951417749 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following instructional media you use in class:

- i. Power Point Slides,
- ii. You tube Video,
- iii. Animations & simulations,
- iv. Charts,
- v. Laboratory manual,
- vi. Text books,

The above item is an example of

- 1. matching type
- 2. multiple choice type
- 3. multiple response type
- 4. true/false

Options :

89951469398. 1

89951469399. 2

89951469400. 3

89951469401. 4

Question Number : 52 Question Id : 89951417750 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is 'NOT' the principle of designing a questionnaire?

1. pose indirect question
2. use easy language
3. avoid double negatives
4. avoid leading questions

Options :

89951469402. 1

89951469403. 2

89951469404. 3

89951469405. 4

Question Number : 53 Question Id : 89951417751 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Observation schedules can include

1. checklists
2. rating scales
3. frequency/counters
4. all of the above

Options :

89951469406. 1

89951469407. 2

89951469408. 3

89951469409. 4

Question Number : 54 Question Id : 89951417752 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the researcher is interested in answering why and how questions, the preferred measuring instrument will be

1. questionnaire
2. interview schedule
3. observation schedule
4. standardized test

Options :

89951469410. 1

89951469411. 2

89951469412. 3

89951469413. 4

Question Number : 55 Question Id : 89951417753 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

To measure the personality of students of technical institutions, the preferred measuring instrument will be

1. questionnaire
2. interview schedule
3. observation schedule
4. standardized test

Options :

89951469414. 1

89951469415. 2

89951469416. 3

89951469417. 4

Question Number : 56 Question Id : 89951417754 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The purpose of coding data from an interview schedule, questionnaire or observation form is to

1. determine the reliability and validity of the instrument
2. analyze the information presented in the instrument
3. standardize the data from the instrument
4. summarize the information given in the body of the instrument

Options :

- 89951469418. 1
- 89951469419. 2
- 89951469420. 3
- 89951469421. 4

Question Number : 57 Question Id : 89951417755 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following does 'NOT' complete the statement? In order to make use of data collected using scales on a questionnaire, it is important to:

1. tally the responses on a blank questionnaire
2. quantify the scales on each questionnaire item
3. assign low numbers to the low end of the scale
4. use an appropriate statistical technique

Options :

- 89951469422. 1
- 89951469423. 2
- 89951469424. 3
- 89951469425. 4

Question Number : 58 Question Id : 89951417756 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following scales of measurement has an absolute zero?

1. nominal scale
2. ordinal scale
3. interval scale
4. ratio scale

Options :

89951469426. 1

89951469427. 2

89951469428. 3

89951469429. 4

Question Number : 59 Question Id : 89951417757 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following method (s) can be used to summarize the data?

1. grouping/frequency distribution
2. descriptive statistics
3. inferential statistics
4. all of the above

Options :

89951469430. 1

89951469431. 2

89951469432. 3

89951469433. 4

Question Number : 60 Question Id : 89951417758 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is 'NOT' a measure of central tendency?

1. mean
2. median
3. mode
4. range

Options :

89951469434. 1
89951469435. 2
89951469436. 3
89951469437. 4

**Question Number : 61 Question Id : 89951417759 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

Which one of the following is affected by the presence of extreme scores in the distribution?

1. mean
2. median
3. mode
4. none of the above

Options :

89951469438. 1
89951469439. 2
89951469440. 3
89951469441. 4

**Question Number : 62 Question Id : 89951417760 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0**

When the one variable is boys and girls and other is scores on IELTS, the correlation technique used will be

1. chi-square
2. pearson-product moment correlation
3. bi-serial correlation
4. partial correlation

Options :

- 89951469442. 1
- 89951469443. 2
- 89951469444. 3
- 89951469445. 4

Question Number : 63 Question Id : 89951417761 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The fellowships for programme at IITs/NITs to students is provided by

1. All India Institute of Technical Education
2. University Grant Commission
3. Department of Atomic Energy
4. Department of Education

Options :

- 89951469446. 1
- 89951469447. 2
- 89951469448. 3
- 89951469449. 4

Question Number : 64 Question Id : 89951417762 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Early career Research award scheme is initiated by

1. Department of Science and Technology
2. Council of Scientific and Industrial Research
3. Department of Atomic Energy
4. Defence Research Development Organisation

Options :

89951469450. 1

89951469451. 2

89951469452. 3

89951469453. 4

Question Number : 65 Question Id : 89951417763 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Scheme for research fellowship in science for meritorious students is initiated by

1. Council of Scientific and Industrial Research
2. University Grant Commission
3. All India Institute of Technical Education
4. Department of Science and Technology

Options :

89951469454. 1

89951469455. 2

89951469456. 3

89951469457. 4

Question Number : 66 Question Id : 89951417764 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The researcher before writing a research report should:

1. know the purpose of the Audience
2. know the background of the Audience
3. know what he/she already knows/does not know
4. All of the above

Options :

89951469458. 1

89951469459. 2

89951469460. 3

89951469461. 4

Question Number : 67 Question Id : 89951417765 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following are NOT the major section of the Report?

1. Appendices
2. Body of the Report
3. Preliminary Materials
4. Reference Materials

Options :

89951469462. 1

89951469463. 2

89951469464. 3

89951469465. 4

Question Number : 68 Question Id : 89951417766 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The Preliminary Section of Research Report does not include:

1. Acknowledgements
2. List of Tables & Graphs
3. Summary of Literature Review
4. Table of Contents

Options :

- 89951469466. 1
- 89951469467. 2
- 89951469468. 3
- 89951469469. 4

Question Number : 69 Question Id : 89951417767 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following sections does not belong to the introductory section of a research report?

1. Definitions of the terms
2. Description of Sample
3. Literature Review
4. Research Questions

Options :

- 89951469470. 1
- 89951469471. 2
- 89951469472. 3
- 89951469473. 4

Question Number : 70 Question Id : 89951417768 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following best describes how Tables and Figures should be arranged in a research report?

1. All Tables and Figures to be placed in the Appendix
2. All Tables and Figures to be integrated into the Presentation and Analysis of data
3. All Tables and Figures to be compiled into one section of the Presentation and Analysis of data
4. All Tables and Figures to be compiled and placed in a separate chapter

Options :

89951469474. 1

89951469475. 2

89951469476. 3

89951469477. 4

Question Number : 71 Question Id : 89951417769 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

A checklist is a valuable instrument in the evaluation of published literature because it:

1. necessitates the evaluation being rigid
2. guides the analysis of the article
3. allows the articles to be compared
4. commits the evaluation criteria to memory

Options :

89951469478. 1

89951469479. 2

89951469480. 3

89951469481. 4

Question Number : 72 Question Id : 89951417770 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following CANNOT be used as a method of evaluation of one's own research?

1. formative evaluation
2. commissioned evaluation
3. co-worker evaluation
4. summative evaluation

Options :

89951469482. 1
89951469483. 2
89951469484. 3
89951469485. 4

Question Number : 73 Question Id : 89951417771 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following activities would 'NOT' be a reliable source of information in the evaluation of a commissioned study?

1. observation of events
2. on-site visits by experts or evaluators
3. interviews with project personnel
4. identification of related reports

Options :

89951469486. 1
89951469487. 2
89951469488. 3
89951469489. 4

Question Number : 74 Question Id : 89951417772 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Which of the following points does 'NOT' need to be considered when developing a plan for evaluating research?

1. select the evaluation methods to be used
2. state the purpose and scope of the evaluation
3. identify the possible outcome of the evaluation
4. establish the operational steps to be followed

Options :

- 89951469490. 1
- 89951469491. 2
- 89951469492. 3
- 89951469493. 4

Question Number : 75 Question Id : 89951417773 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Research that deals with the past events is referred to as:

1. action research
2. evaluation research
3. experimental research
4. historical research

Options :

- 89951469494. 1
- 89951469495. 2
- 89951469496. 3
- 89951469497. 4

Question Number : 76 Question Id : 89951417774 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A study on Technical Education System in the pre-independence era is an example of

1. descriptive research
2. experimental research
3. evaluation research
4. historical research

Options :

89951469498. 1

89951469499. 2

89951469500. 3

89951469501. 4

Question Number : 77 Question Id : 89951417775 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Effect of blended learning on the achievement in Computer Science course is an example of

1. survey research
2. case study
3. experimental research
4. evaluation research

Options :

89951469502. 1

89951469503. 2

89951469504. 3

89951469505. 4

Question Number : 78 Question Id : 89951417776 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A researcher is interested in studying how IIT Bombay has been successful in forging international collaborations, which of the following methodology of research should be preferred:

1. case study
2. survey study
3. action research
4. evaluation research

Options :

89951469506. 1

89951469507. 2

89951469508. 3

89951469509. 4

Question Number : 79 Question Id : 89951417777 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Comparative study of the teaching effectiveness of trained and untrained teachers working in the polytechnic system is an example of

1. descriptive study
2. evaluation study
3. ex-post facto study
4. correlation study

Options :

89951469510. 1

89951469511. 2

89951469512. 3

89951469513. 4

Question Number : 80 Question Id : 89951417778 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the right reference for the book “Education Research: Quantitative, Qualitative and Mixed Approaches” 3rd edition, Sage Publication Inc., Los Angeles, 2008.

1. Johnson, RB and Christensen, LB. (2008). Education Research: Quantitative , Qualitative and Mixed Approaches 3rd edition. Los Angeles: Sage Publication Inc.
2. Johnson, RB and Christensen, LB. Education Research: Quantitative, Qualitative and Mixed Approaches 3rd edition. Los Angeles: Sage Publication Inc. (2008).
3. Johnson, RB and Christensen, LB. (2008). Education Research: Quantitative , Qualitative and Mixed Approaches 3rd edition. Sage Publication Inc. Los Angeles.
4. Johnson, RB and Christensen, LB. (2008). 3rd edition. Education Research: Quantitative, Qualitative and Mixed Approaches Los Angeles: Sage Publication Inc.

Options :

89951469514. 1

89951469515. 2

89951469516. 3

89951469517. 4

Question Number : 81 Question Id : 89951417779 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following could be the directional hypothesis for a study on Emotional Intelligence of male and female teachers in the technical education system of Punjab?

1. there is no significant difference in the emotional intelligence of male and female teachers in technical education system of Punjab.
2. there is no significant correlation between gender and emotional intelligence of teachers working in technical education system of Punjab
3. female teachers show significantly higher level of emotional intelligence than male teachers in technical education system of Punjab
4. there will be significant difference in the emotional intelligence of male and female teachers in technical education system of Punjab

Options :

89951469518. 1

89951469519. 2

89951469520. 3

89951469521. 4

Question Number : 82 Question Id : 89951417780 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following statement is true?

1. non-directional hypothesis does not indicate direction of relationship or differences while directional hypothesis indicates direction of relationship or differences
2. both directional and non-directional hypotheses state direction of differences
3. both directional and non-directional hypotheses do not state direction of differences
4. non-directional hypothesis indicates direction of relationship or differences, while directional hypothesis does not indicate direction of relationships differences

Options :

89951469522. 1

89951469523. 2

89951469524. 3

89951469525. 4

Question Number : 83 Question Id : 89951417781 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 longitudinal study?

1. trend study
2. cohort study
3. panel study
4. all of the above

Options :

89951469526. 1

89951469527. 2

89951469528. 3

89951469529. 4

Question Number : 84 Question Id : 89951417782 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If as a researcher you are interested in following your students in world of work after their graduation, which of the following method of research would you follow:

1. case study
2. survey study
3. tracer study
4. trend study

Options :

- 89951469530. 1
- 89951469531. 2
- 89951469532. 3
- 89951469533. 4

Question Number : 85 Question Id : 89951417783 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

For a study on 'Degree of utilization of resources in the polytechnic of UP', which one of the following cannot be a research objective.

1. to study the extent of utilization of human resources
2. to study the extent of utilization of physical resources
3. to study the extent of utilization of instructional resources
4. there is no significant differences in the utilization of human resources in the government, government aided and self-finances polytechnics of UP

Options :

- 89951469534. 1
- 89951469535. 2
- 89951469536. 3

89951469537. 4

Question Number : 86 Question Id : 89951417784 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 a case study?

1. Why Ankit bunk classes scheduled between 9 to 11.00 AM?
2. How Thapar Institute of Engineering and Technology is able to secure 25th rank in NIRF?
3. How teachers in a particular college are able to motivate students to register for MOOCs?
4. All of the above

Options :

89951469538. 1

89951469539. 2

89951469540. 3

89951469541. 4

Question Number : 87 Question Id : 89951417785 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Ex-Post facto research means

1. cause has already occurred; effect has to be studied
2. effect has occurred, cause to be identified
3. both cause and effect has already occurred
4. establishing true cause and effect relationship

Options :

89951469542. 1

89951469543. 2

89951469544. 3

89951469545. 4

Question Number : 88 Question Id : 89951417786 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one of the following experimental designs is more robust in comparison to others?

1. pre-test- post-test design
2. post-test only design
3. Solomon four group design
4. pre-test- post-test control group design

Options :

89951469546. 1
89951469547. 2
89951469548. 3
89951469549. 4

Question Number : 89 Question Id : 89951417787 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

An experiment in which the extraneous variables are controlled is said to be

1. internally reliable
2. internally valid
3. externally valid
4. externally reliable

Options :

89951469550. 1
89951469551. 2
89951469552. 3
89951469553. 4

Question Number : 90 Question Id : 89951417788 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If students' scores tend to move towards the mean upon testing, it is referred to as

1. experimental mortality
2. statistical regression
3. maturation
4. reactive effect of pretesting

Options :

- 89951469554. 1
- 89951469555. 2
- 89951469556. 3
- 89951469557. 4

Question Number : 91 Question Id : 89951417789 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

OXO describes the

1. one group pre-test post-test design
2. one shot case study
3. pre-test post-test control group design
4. post-test only control group design

Options :

- 89951469558. 1
- 89951469559. 2
- 89951469560. 3
- 89951469561. 4

Question Number : 92 Question Id : 89951417790 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following variables can be manipulated by the researcher?

1. age
2. instructional strategies
3. parental education level
4. socio-economic status

Options :

89951469562. 1

89951469563. 2

89951469564. 3

89951469565. 4

Question Number : 93 Question Id : 89951417791 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If your accessible population consists of boys and girls with various levels of intelligence and mechanical aptitude the sampling technique will be:

1. systemic sampling
2. simple random sampling
3. stratified random sampling
4. quota sampling

Options :

89951469566. 1

89951469567. 2

89951469568. 3

89951469569. 4

Question Number : 94 Question Id : 89951417792 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In order to generate a set of pedagogical techniques to be used in a particular course of study to maximize student achievement, teacher should prefer

1. survey studies
2. case studies
3. experimental studies
4. impact studies

Options :

89951469570. 1

89951469571. 2

89951469572. 3

89951469573. 4

Question Number : 95 Question Id : 89951417793 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the researcher does not have knowledge about the population and he has to depend on the references of individuals, which of the following sampling technique will he use

1. simple random sampling
2. quota sampling
3. volunteer sample
4. snowball sampling

Options :

89951469574. 1

89951469575. 2

89951469576. 3

89951469577. 4

Question Number : 96 Question Id : 89951417794 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

As a researcher, if your hypothesis is 'there is no significant difference in the emotional intelligence of male and female teachers', you will use

1. one tailed test
2. two tailed test
3. correlation technique
4. regression coefficient

Options :

89951469578. 1

89951469579. 2

89951469580. 3

89951469581. 4

Question Number : 97 Question Id : 89951417795 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A pilot 'study is helpful because it

1. permits a preliminary testing of hypothesis
2. provides the researcher with ideas, approaches and clues
3. permits a check of procedures
4. all of the above

Options :

89951469582. 1

89951469583. 2

89951469584. 3

89951469585. 4

Question Number : 98 Question Id : 89951417796 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following factors most often weakens educational research studies?

1. deliberate distortion
2. sampling bias
3. inaccurate statistical analysis
4. inaccurate computer programming

Options :

89951469586. 1

89951469587. 2

89951469588. 3

89951469589. 4

Question Number : 99 Question Id : 89951417797 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If your class test adequately represents the contents of curriculum specified, the test is said to have

1. content validity
2. construct validity
3. face validity
4. concurrent validity

Options :

89951469590. 1

89951469591. 2

89951469592. 3

89951469593. 4

Question Number : 100 Question Id : 89951417798 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The most common difficulty in using attitude scales is that individuals:

1. provide socially acceptable response
2. hide their true response
3. follow a certain pattern in responding to a question
4. lack seriousness

Options :

89951469594. 1

89951469595. 2

89951469596. 3

89951469597. 4