

National Testing Agency

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Creative Problem Solving Innovation and Meaningful R and D

Group Number :	1
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Creative Problem Solving Innovation and Meaningful R and D

Section Id :	27253912
Section Number :	1
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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 :	27253912
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 2725391101 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The steps involved in the process of creative problem solving include the following

- I. Identify apparent problem
- II. Define the real problem
- III. Create alternate solutions
- IV. Seek and analyze the causes
- V. Select the best option
- VI. Implement
- VII. Plan a course of action

The correct sequence of these steps is

1. I – II – IV – III – V – VI – VII
2. I – IV – II – III – V – VII – VI
3. II – I – III – IV – V – VI – VII
4. II – I – IV – III – V – VI – VII

Options :

2725394401. 1
2725394402. 2
2725394403. 3
2725394404. 4

Question Number : 2 Question Id : 2725391102 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is a technique of generating ideas?

1. Evaluation matrix
2. Highlighting
3. Must versus needs
4. SCAMPER

Options :

2725394405. 1
2725394406. 2
2725394407. 3
2725394408. 4

Question Number : 3 Question Id : 2725391103 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Brain storming involves:

1. Generation of ideas
2. Generation of ideas without evaluation
3. Selection of ideas
4. Selection of ideas without evaluation

Options :

2725394409. 1

2725394410. 2

2725394411. 3

2725394412. 4

Question Number : 4 Question Id : 2725391104 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is a Focusing technique?

1. ALUo
2. Attribute listing
3. Forced fitting
4. Imagery trek

Options :

2725394413. 1

2725394414. 2

2725394415. 3

2725394416. 4

Question Number : 5 Question Id : 2725391105 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In SCAMPER technique, M refers to:

1. Minimize
2. Magnify
3. Modify
4. All of the above

Options :

2725394417. 1

2725394418. 2

2725394419. 3

2725394420. 4

Question Number : 6 Question Id : 2725391106 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Innovation can be in terms of:

1. Process
2. Product
3. Service
4. All of the above

Options :

2725394421. 1

2725394422. 2

2725394423. 3

Question Number : 7 Question Id : 2725391107 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sixth generation innovation model is:

1. Market pull model
2. Network innovation model
3. Open innovation model
4. Technology push model

Options :

2725394425. 1
2725394426. 2
2725394427. 3
2725394428. 4

Question Number : 8 Question Id : 2725391108 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The stages in the process of innovation involve the following:

- I. Advocacy and screening
- II. Idea generation and mobilization
- III. Experimentation
- IV. Commercialization
- V. Diffusion and implementation

The correct sequence of these stages is:

1. I – II – III – IV – V
2. II – I – III – IV – V
3. III – II – I – V – IV
4. I – III – II – V – IV

Options :

2725394429. 1
2725394430. 2
2725394431. 3
2725394432. 4

Question Number : 9 Question Id : 2725391109 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Prototype is developed at the stage of:

1. Advocacy and screening
2. Commercialization
3. Experimentation
4. Diffusion and implementation

Options :

2725394433. 1
2725394434. 2
2725394435. 3
2725394436. 4

Question Number : 10 Question Id : 2725391110 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Design thinking involves the stages of:

- i. Define
- ii. Discover
- iii. Evaluate
- iv. Create

The correct sequence of these stages is:

1. II – I – IV – III
2. I – II – IV – III
3. I – II – III – IV
4. II – I – III – IV

Options :

2725394437. 1
2725394438. 2
2725394439. 3
2725394440. 4

Question Number : 11 Question Id : 2725391111 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For gaining insight into customer's needs and experience, the techniques used include:

1. Empathy maps
2. Journey maps
3. Drafting personas
4. All of the above

Options :

2725394441. 1
2725394442. 2
2725394443. 3

Question Number : 12 Question Id : 2725391112 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Procedure for conflicts resolution , decisions making etc. are finalized at:

1. Forming stage
2. Norming stage
3. Performing stage
4. Storming stage

Options :

- 2725394445. 1
- 2725394446. 2
- 2725394447. 3
- 2725394448. 4

Question Number : 13 Question Id : 2725391113 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Members of team vie for positions at:

1. Forming stage
2. Norming stage
3. Performing stage
4. Storming stage

Options :

- 2725394449. 1
- 2725394450. 2
- 2725394451. 3
- 2725394452. 4

Question Number : 14 Question Id : 2725391114 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

While selecting members of a team, it should be seen that members are:

1. Creative
2. Knowledgeable
3. Optimistic
4. All of the above

Options :

- 2725394453. 1
- 2725394454. 2

2725394455. 3

2725394456. 4

Question Number : 15 Question Id : 2725391115 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Tasks should be assigned to members according to their:

1. Age
2. Capability
3. Communication skills
4. Position

Options :

2725394457. 1

2725394458. 2

2725394459. 3

2725394460. 4

Question Number : 16 Question Id : 2725391116 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Leader can motivate and inspire team members only when he / she:

1. Recognize individuality
2. Praise the members
3. Walk the talk
4. All of the above

Options :

2725394461. 1

2725394462. 2

2725394463. 3

2725394464. 4

Question Number : 17 Question Id : 2725391117 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 on industrial training
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 :

2725394465. 1

2725394466. 2

2725394467. 3

2725394468. 4

Question Number : 18 Question Id : 2725391118 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A study on the Impact of TEQIP on Technical education System is an example of:

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

Options :

2725394469. 1

2725394470. 2

2725394471. 3

2725394472. 4

Question Number : 19 Question Id : 2725391119 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following research studies can be classified as action research?

1. determining employers' perception of preferred work experience for new employees
2. effect of positive and negative reinforcement on the learning of pigeons
3. effect of introducing the use of objective tests on the motivation of students in a classroom by a class teacher
4. relationship between high school grades and achievement by technician students in technician courses

Options :

2725394473. 1

2725394474. 2

2725394475. 3

2725394476. 4

Question Number : 20 Question Id : 2725391120 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 :

- 2725394477. 1
- 2725394478. 2
- 2725394479. 3
- 2725394480. 4

Question Number : 21 Question Id : 2725391121 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The step 'Describe Methodology of Research' includes:

1. selecting research design, administering instruments, and the procedure for conducting research
2. generating hypotheses, selecting research design, selecting sample, and the procedure for conducting research
3. selecting research design, selecting sample, selecting instruments, selecting methods of analysis to be used and the procedure for conducting research
4. defining variables in the problems, selecting sample, selecting instruments, and the procedure of conducting research

Options :

- 2725394481. 1
- 2725394482. 2
- 2725394483. 3
- 2725394484. 4

Question Number : 22 Question Id : 2725391122 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Basic research is conducted to :

1. generate new knowledge
2. facilitate decisions making
3. test a theory in the field
4. development of instructional material

Options :

- 2725394485. 1
- 2725394486. 2
- 2725394487. 3
- 2725394488. 4

Question Number : 23 Question Id : 2725391123 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

One of the objectives of a study on Effect of Blended Learning on Achievement in Power Systems can be:

1. To study the differences in the achievement in Power Systems of students taught through lecture method and blended learning
2. There is significant difference in the achievement in Power Systems of students taught through lecture method and blended learning
3. There is no significant difference in the achievement in Power Systems of students taught through lecture method and blended learning
4. There is significant difference in the achievement in Power Systems of boys and girls taught through lecture method and blended learning

Options :

2725394489. 1

2725394490. 2

2725394491. 3

2725394492. 4

Question Number : 24 Question Id : 2725391124 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the review of related literature is inconclusive, the hypothesis to be preferred is:

1. Null hypothesis
2. Directional hypothesis
3. Non-directional hypothesis
4. Both (1) & (2)

Options :

2725394493. 1

2725394494. 2

2725394495. 3

2725394496. 4

Question Number : 25 Question Id : 2725391125 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Prediction studies aim at:

1. Predicting predictor variable on the basis of criterion variable
2. Predicting criterion variable on the basis of predictor variable
3. Both (1) & (2)
4. Neither (1) nor (2)

Options :

2725394497. 1
2725394498. 2
2725394499. 3
2725394500. 4

Question Number : 26 Question Id : 2725391126 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the first step in conducting a relationship study?

1. Selecting the subjects for the study
2. Selecting developing measuring instruments
3. Identifying the variables whose relationship is to be studied
4. Collecting and analysing data pertaining to the relations to be studied

Options :

2725394501. 1
2725394502. 2
2725394503. 3
2725394504. 4

Question Number : 27 Question Id : 2725391127 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If two variables are highly correlated, it means:

1. that they always go together
2. high value on one variable leads to high value on other variable
3. that there are no other variables responsible for the relationship
4. that change in one variable is accompanied by predictable change in the other variable

Options :

2725394505. 1
2725394506. 2
2725394507. 3
2725394508. 4

Question Number : 28 Question Id : 2725391128 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Determining the relationship between two or more variables occurs in:

1. Survey
2. Action
3. Correlation research
4. Naturalistic Observation

Options :

- 2725394509. 1
- 2725394510. 2
- 2725394511. 3
- 2725394512. 4

Question Number : 29 Question Id : 2725391129 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 :

- 2725394513. 1
- 2725394514. 2
- 2725394515. 3
- 2725394516. 4

Question Number : 30 Question Id : 2725391130 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Determining the quality of question papers w.r.t to their validity is an example of:

1. case study research
2. content analysis research
3. correlation research
4. survey research

Options :

- 2725394517. 1
- 2725394518. 2
- 2725394519. 3
- 2725394520. 4

Question Number : 31 Question Id : 2725391131 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 :

2725394521. 1

2725394522. 2

2725394523. 3

2725394524. 4

Question Number : 32 Question Id : 2725391132 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 :

2725394525. 1

2725394526. 2

2725394527. 3

2725394528. 4

Question Number : 33 Question Id : 2725391133 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 technician institutions
4. a study describing the self-concept of students and the prediction of their performance

Options :

2725394529. 1

2725394530. 2

2725394531. 3

2725394532. 4

Question Number : 34 Question Id : 2725391134 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT true as a requirement in selecting the research problem?

Research problem should:

1. Be written in question form OR statement form
2. Avoid dichotomous questions.
3. Be stated as value judgements.
4. Imply possibilities for empirical testing.

Options :

2725394533. 1

2725394534. 2

2725394535. 3

2725394536. 4

Question Number : 35 Question Id : 2725391135 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following criteria does NOT complete the statement? The hypothesis should:

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 :

2725394537. 1

2725394538. 2

2725394539. 3

2725394540. 4

Question Number : 36 Question Id : 2725391136 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 :

2725394541. 1

2725394542. 2

2725394543. 3

2725394544. 4

Question Number : 37 Question Id : 2725391137 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 :

- 2725394545. 1
- 2725394546. 2
- 2725394547. 3
- 2725394548. 4

Question Number : 38 Question Id : 2725391138 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 :

- 2725394549. 1
- 2725394550. 2
- 2725394551. 3
- 2725394552. 4

Question Number : 39 Question Id : 2725391139 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

By using a coding system on note cards, a researcher can:

1. collate references on similar topics
2. order the note cards into a sequence
3. cross-reference the note cards with original sources
4. indicate the type of information contained on each card

Options :

- 2725394553. 1
- 2725394554. 2
- 2725394555. 3
- 2725394556. 4

Question Number : 40 Question Id : 2725391140 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The reading technique that would be employed to locate terms and references in an index or thesaurus is:

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

Options :

- 2725394557. 1
- 2725394558. 2
- 2725394559. 3
- 2725394560. 4

Question Number : 41 Question Id : 2725391141 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Reviews in journals may provide the researcher with an appraisal of:

1. new publications
2. current unpublished research
3. other journal's contents
4. the journal's content

Options :

- 2725394561. 1
- 2725394562. 2
- 2725394563. 3
- 2725394564. 4

Question Number : 42 Question Id : 2725391142 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements best describes an Annotated Bibliography?

1. a list of references extracted from a bibliography
2. a reference to publications from a clearinghouse
3. a reference to bibliographies held at an institution
4. a list of references with notes about each reference

Options :

- 2725394565. 1
- 2725394566. 2
- 2725394567. 3
- 2725394568. 4

Question Number : 43 Question Id : 2725391143 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following information sources would provide you with definitions of education terms?

1. an education index
2. an education dictionary
3. an education thesaurus
4. an education encyclopaedia

Options :

- 2725394569. 1
- 2725394570. 2
- 2725394571. 3
- 2725394572. 4

Question Number : 44 Question Id : 2725391144 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following best describes a secondary source of literature?

- 1.Thesis
- 2.Dissertation
- 3.Journal article
- 4.Book

Options :

- 2725394573. 1
- 2725394574. 2
- 2725394575. 3
- 2725394576. 4

Question Number : 45 Question Id : 2725391145 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A primary source of information is one that reports:

1. a quasi-experimental research design
2. a first-hand description of research
3. a direct comparison of research
4. a critical evaluation of research

Options :

- 2725394577. 1
- 2725394578. 2
- 2725394579. 3
- 2725394580. 4

Question Number : 46 Question Id : 2725391146 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The general purpose of the review of literature is:

1. to clarify or discuss contradictory findings
2. to determine areas of bias in existing research
3. to search for research questions and hypotheses
4. to provide background to the research being conducted

Options :

2725394581. 1

2725394582. 2

2725394583. 3

2725394584. 4

Question Number : 47 Question Id : 2725391147 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. +.40
2. +0.60
3. -0.80
4. -0.70

Options :

2725394585. 1

2725394586. 2

2725394587. 3

2725394588. 4

Question Number : 48 Question Id : 2725391148 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is NOT an advantage of ex-post facto research?

1. To establish cause-and-effect relationship between independent and dependent variables
2. To identify several possible causes for a certain phenomenon.
3. To generate a large body of information about the phenomena being studied.
4. To generate new hypotheses.

Options :

2725394589. 1

2725394590. 2

2725394591. 3

2725394592. 4

Question Number : 49 Question Id : 2725391149 Question Type : MCQ Option Shuffling : No Is Question

Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following makes ex-post facto research different from experimental research?

1. Scales of measurement used for measuring variables.
2. Size of sample selected for comparison.
3. Type of relations established.
4. Types of statistical techniques used.

Options :

2725394593. 1

2725394594. 2

2725394595. 3

2725394596. 4

Question Number : 50 Question Id : 2725391150 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Ex-Post Facto research study would be preferred over an experimental method where it is NOT possible to:

1. Make use of computers
2. Manipulate the variables
3. Randomize while sampling
4. Use standardized tests

Options :

2725394597. 1

2725394598. 2

2725394599. 3

2725394600. 4

Question Number : 51 Question Id : 2725391151 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 :

2725394601. 1

2725394602. 2

2725394603. 3

2725394604. 4

Question Number : 52 Question Id : 2725391152 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 (1) and (2).
4. Neither (1) nor (2).

Options :

- 2725394605. 1
- 2725394606. 2
- 2725394607. 3
- 2725394608. 4

Question Number : 53 Question Id : 2725391153 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the technique used to develop a prediction of criterion behaviour from a combination of Predictive measures?

1. Multiple regression
2. Differential analysis
3. Simple correlation
4. Partial Correlation

Options :

- 2725394609. 1
- 2725394610. 2
- 2725394611. 3
- 2725394612. 4

Question Number : 54 Question Id : 2725391154 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 :

- 2725394613. 1
- 2725394614. 2
- 2725394615. 3
- 2725394616. 4

Question Number : 55 Question Id : 2725391155 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 :

2725394617. 1

2725394618. 2

2725394619. 3

2725394620. 4

Question Number : 56 Question Id : 2725391156 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is 'NOT' necessary when conducting an interview for the purpose of collecting data?

1. the interviewer should be alert to expressions and gestures used by the respondent
2. the respondent should be aware of the feelings and attitudes of the interviewer
3. the interviewer must be interested, friendly and informal
4. the respondent must understand and accept the method of recording data

Options :

2725394621. 1

2725394622. 2

2725394623. 3

2725394624. 4

Question Number : 57 Question Id : 2725391157 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following procedures should 'NOT' be adopted when gathering data through observation?

1. establish rapport and make yourself inconspicuous so as not to interfere with the atmosphere
2. make notes on observations as soon as the event is over
3. analyze as much of the data during the observation as possible
4. take notes on individuals and conditions even when using a pre-prepared schedule

Options :

2725394625. 1
2725394626. 2
2725394627. 3
2725394628. 4

Question Number : 58 Question Id : 2725391158 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is 'NOT' an aspect of good practice when mailing surveys to respondents?

1. making a direct reference to confidentiality in the accompanying letter
2. in follow-up letters, suggesting that non-response is normal
3. including a stamped, addressed envelope for the return of the instrument
4. stressing the importance of the survey and the value of the respondent's co-operation

Options :

2725394629. 1
2725394630. 2
2725394631. 3
2725394632. 4

Question Number : 59 Question Id : 2725391159 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 :

2725394633. 1
2725394634. 2
2725394635. 3
2725394636. 4

Question Number : 60 Question Id : 2725391160 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the researcher is interested in determining the trends of enrolment for the last ten years in various disciplines offered by Rajasthan Technical University, the preferred measuring instrument will be:

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

Options :

2725394637. 1
2725394638. 2
2725394639. 3
2725394640. 4

Question Number : 61 Question Id : 2725391161 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 :

2725394641. 1
2725394642. 2
2725394643. 3
2725394644. 4

Question Number : 62 Question Id : 2725391162 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Standardized test provide for:

1. reliability indices
2. validity indices
3. norms
4. all of the above

Options :

2725394645. 1
2725394646. 2
2725394647. 3
2725394648. 4

Question Number : 63 Question Id : 2725391163 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 :

2725394649. 1
2725394650. 2
2725394651. 3
2725394652. 4

Question Number : 64 Question Id : 2725391164 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Interview schedule can be:

1. structured
2. semi-structured
3. unstructured
4. all of the above

Options :

2725394653. 1
2725394654. 2
2725394655. 3
2725394656. 4

Question Number : 65 Question Id : 2725391165 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 :

2725394657. 1
2725394658. 2
2725394659. 3
2725394660. 4

Question Number : 66 Question Id : 2725391166 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Specify the problems faced on account of shortage of faculty in the institution. The Item/question is an example of

1. multiple response type item
2. rating type item
3. ranking type
4. open-ended questions

Options :

2725394661. 1
2725394662. 2
2725394663. 3
2725394664. 4

Question Number : 67 Question Id : 2725391167 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 :

2725394665. 1
2725394666. 2
2725394667. 3
2725394668. 4

Question Number : 68 Question Id : 2725391168 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 these

Options :

2725394669. 1
2725394670. 2
2725394671. 3
2725394672. 4

Question Number : 69 Question Id : 2725391169 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements best defines experimental research?

Research in which:

1. extraneous variables are removed.
2. random samples are mandatory.
3. rival hypotheses are tested.
4. Variable is manipulated and its effect is studied on another variable.

Options :

2725394673. 1
2725394674. 2
2725394675. 3
2725394676. 4

Question Number : 70 Question Id : 2725391170 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 :

2725394677. 1
2725394678. 2
2725394679. 3

Question Number : 71 Question Id : 2725391171 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT one of the conditions that must be met in order to state confidently that the independent variable caused differences between groups in the dependent variable?

1. eliminating plausible alternative explanations for the differences in the dependent variable.
2. establishing a covariation between the independent and dependent variable.
3. establishing a time-order relationship such that the change in the independent variable preceded the change in the dependent variable.
4. establishing that the independent variable is the only factor that could ever cause a change in the dependent variable.

Options :

- 2725394681. 1
- 2725394682. 2
- 2725394683. 3
- 2725394684. 4

Question Number : 72 Question Id : 2725391172 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Mr. Gupta'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 :

- 2725394685. 1
- 2725394686. 2
- 2725394687. 3
- 2725394688. 4

Question Number : 73 Question Id : 2725391173 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Control in experimental research is BEST described as an attempt to:

1. equate the subjects on the treatment variable.
2. increase the generalizability of findings.
3. limit threats to external validity.
4. limit threats to internal validity.

Options :

2725394689. 1
2725394690. 2
2725394691. 3
2725394692. 4

Question Number : 74 Question Id : 2725391174 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The purpose of Action Research in education is to:

1. Contribute to the new knowledge.
2. Develop a new product.
3. Improve the educational/classroom practices.
4. Verify the established theories.

Options :

2725394693. 1
2725394694. 2
2725394695. 3
2725394696. 4

Question Number : 75 Question Id : 2725391175 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 :

2725394697. 1
2725394698. 2
2725394699. 3
2725394700. 4

Question Number : 76 Question Id : 2725391176 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 (1) and (2).
4. Neither (1) nor (2).

Options :

2725394701. 1

2725394702. 2

2725394703. 3

2725394704. 4

Question Number : 77 Question Id : 2725391177 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 :

2725394705. 1

2725394706. 2

2725394707. 3

2725394708. 4

Question Number : 78 Question Id : 2725391178 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 :

2725394709. 1

2725394710. 2

2725394711. 3

2725394712. 4

Question Number : 79 Question Id : 2725391179 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following principles is not applicable to sampling?

1. Sample units must be clearly defined
2. Sample units must be dependent on each other
3. Same units of sample should be used throughout the study
4. Sample units must be chosen in a systematic and objective manner.

Options :

2725394713. 1

2725394714. 2

2725394715. 3

2725394716. 4

Question Number : 80 Question Id : 2725391180 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 Random Sampling
3. Judgemental Sampling
4. Convenience Sampling

Options :

2725394717. 1

2725394718. 2

2725394719. 3

2725394720. 4

Question Number : 81 Question Id : 2725391181 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When a research problem is related to the heterogeneous population, the most suitable sampling method is :

1. Random sampling method
2. Cluster Sampling
3. Stratified Random Sampling
4. Convenience sampling

Options :

2725394721. 1

2725394722. 2

2725394723. 3

2725394724. 4

Question Number : 82 Question Id : 2725391182 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. Snowball sampling
4. Convenience Sampling

Options :

2725394725. 1

2725394726. 2

2725394727. 3

2725394728. 4

Question Number : 83 Question Id : 2725391183 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not an advantage of the simple random sampling technique over other techniques?

1. requires a minimum knowledge of the population
2. is free of errors in classification
3. is appropriate for data analysis which includes inferential statistics
4. Provide homogeneity of subjects used in the sample

Options :

2725394729. 1

2725394730. 2

2725394731. 3

2725394732. 4

Question Number : 84 Question Id : 2725391184 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. independent 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 :

2725394733. 1
2725394734. 2
2725394735. 3
2725394736. 4

Question Number : 85 Question Id : 2725391185 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. interview scale
4. ratio scale

Options :

2725394737. 1
2725394738. 2
2725394739. 3
2725394740. 4

Question Number : 86 Question Id : 2725391186 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the principle of graphic representation?

1. include visually distracting details
2. difficult to read
3. use consistent style
4. need no planning

Options :

2725394741. 1
2725394742. 2
2725394743. 3
2725394744. 4

Question Number : 87 Question Id : 2725391187 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 :

2725394745. 1

2725394746. 2

2725394747. 3

2725394748. 4

Question Number : 88 Question Id : 2725391188 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 the Normal Probability Curve?

1. mean, median and mode are at different points
2. it is bilaterally symmetrical
3. it is asymptomatic to x-axis
4. it is uni-modal

Options :

2725394749. 1

2725394750. 2

2725394751. 3

2725394752. 4

Question Number : 89 Question Id : 2725391189 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When the data on two variables are available on nominal scale, the correlation method used will be:

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

Options :

2725394753. 1

2725394754. 2

2725394755. 3

2725394756. 4

Question Number : 90 Question Id : 2725391190 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In case, you are interested in determining the differences in utilization of mobile phones for education purpose in hours per day among students of 6-14 years, 15-25 years, 26 – 40 years and 40 years and above, the statistical technique preferred will be:

1. t-test
2. ANOVA
3. Pearson product moment correlation
4. chi square test

Options :

2725394757. 1

2725394758. 2

2725394759. 3

2725394760. 4

Question Number : 91 Question Id : 2725391191 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Good research proposals will always:

1. Focus on writing researcher's name, qualification, and addresses.
2. focus on writing references in API style.
3. Focus on all possible research that had previously been done on the topic.
4. focus on addressing the research objectives.

Options :

2725394761. 1

2725394762. 2

2725394763. 3

2725394764. 4

Question Number : 92 Question Id : 2725391192 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An Action Research proposal is usually shorter in length than other proposals because:

1. It involves less rigor and refinement.
2. It is not likely to be read by anyone of importance.
3. It needs to be sent by mail to other researchers.
4. It has a smaller audience and no request for funds.

Options :

2725394765. 1

2725394766. 2

2725394767. 3

2725394768. 4

Question Number : 93 Question Id : 2725391193 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A funding request proposal needs to be accurate,' complete and persuasive because:

1. the problem statement in this kind of proposal is difficult to identify.
2. the problem involves specific procedures and instruments.
3. its purpose is to allocate limited financial resources.
4. it justifies the requirements for undertaking the programme.

Options :

- 2725394769. 1
- 2725394770. 2
- 2725394771. 3
- 2725394772. 4

Question Number : 94 Question Id : 2725391194 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The key idea of writing a 'Topic Outline' in the process of preparing a proposal is to:

1. Describe the purpose of the study and type pf proposal needed.
2. Describe the significance of the study.
3. Obtain colleague's feedback about the completed proposal.
4. Revise the proposal based on feedback received.

Options :

- 2725394773. 1
- 2725394774. 2
- 2725394775. 3
- 2725394776. 4

Question Number : 95 Question Id : 2725391195 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which section of the proposal is intended to describe the purpose with a full statement of the research question?

1. Introduction
2. Literature Review
3. References
4. Proposed Methodology

Options :

- 2725394777. 1
- 2725394778. 2
- 2725394779. 3
- 2725394780. 4

Question Number : 96 Question Id : 2725391196 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 in provided by:

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

Options :

- 2725394781. 1
- 2725394782. 2
- 2725394783. 3
- 2725394784. 4

Question Number : 97 Question Id : 2725391197 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Skill and personality development programme centre for SC/ST students is set up by

1. All India Council for Technical Education
2. University Grants Commission
3. Department of Science and Technology
4. Department of Science and Industrial Research

Options :

- 2725394785. 1
- 2725394786. 2
- 2725394787. 3
- 2725394788. 4

Question Number : 98 Question Id : 2725391198 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. what he/she already knows/does not know
4. All of the above

Options :

- 2725394789. 1
- 2725394790. 2
- 2725394791. 3
- 2725394792. 4

Question Number : 99 Question Id : 2725391199 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 :

2725394793. 1

2725394794. 2

2725394795. 3

2725394796. 4

Question Number : 100 Question Id : 2725391200 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 :

2725394797. 1

2725394798. 2

2725394799. 3

2725394800. 4