

SEAT No. _____

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SARDAR PATEL UNIVERSITY

M.Sc. Forensic Science (Semester –III) Examination

Thursday, 31st December-2020

PS03EFSC21: Teaching and Research Aptitude & Quality Management

TIME-10:00 AM – 12:00 PM

TOTAL MARKS- 70

Q-1(a) Multiple Choice Questions:

(08)

1. Use of telecast materials
A. enhances concentration and learning C. increases retention power
B. reduces the burden of the teacher D. all of the above
2. Maximum participation of students is possible in teaching through
A. lecture method C. textbook method
B. discussion method D. audio-visual aids
3. The data of research is _____
A. Qualitative only C. Both (a) and (b)
B. Quantitative only D. Neither (a) nor (b)
4. Field study is related to
A real life situations C. laboratory situations
B experimental situations D none of the above
5. LIMS, sometimes referred to as a
A. laboratory information system C. Both A & B
B. laboratory management system D. None of the above
6. LIMS also has additional function like,
A. Barcode Handling C. Both A & B
B. Compliance D. None of the above
7. The laboratory shall advise the customer of the arrangement in writing and,
A. Gain the approval of the customer,
B. No requirement of customer approval
C. Laboratory can make change any time
D. Only customer will decide how to perform
8. For any laboratory client can be _____
A. Company C. Both A & B
B. Customer D. None of the above

Q-1(b) Answer True or False:

(16)

1. The student is an Independent variable.
2. Pre-active phase is considering to be of actual teaching phase.
3. If back-benchers are always talking in the classroom a teacher should ask them to sit on the front benches.
4. A teacher in the class should keep the pitch of his voice moderate.
5. Synopsis is the first requirement in the research.
6. The fundamental research sets principle and Action research utilizes those principles.
7. The longitudinal approach of research deals with short-term Research.

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(P.T.O.)

8. The research antagonistic to ex-post facto research is not a experimental studies.
9. The laboratory director must have a minimum of Master degree.
10. The training program must include evaluation of knowledge.
11. In LIMS, 'M' stands for manufacturing.
12. MySQL is a standardized database management system.
13. Quality manager is the responsible person who is familiar with the laboratory's existing quality system.
14. Three copies of the application and quality manual should be submitted to NABL by an applicant laboratory.
15. A laboratory cannot follow National standards in place of International standards by concerning client.
16. Dust electromagnetic interference should be facilitated in the laboratory for monitoring and recording environmental conditions.

Q-2 Answer in Brief: (Any Seven): (14)

- 1) What is Microteaching?
- 2) Define: Validation
- 3) What are the qualities of good researcher? Enlist it.
- 4) What is the importance of research in human life? Explain it.
- 5) What are various steps of doing research? Enlist it.
- 6) What is Reference standards.
- 7) Explain the types of clients.
- 8) What is Internal Audit?
- 9) Who is 'An Expert' in Expert Testimony?

Q-3 Give Basic requirement of Teaching. (08)

OR

Q-3 What are the various characteristics of Teacher? Discuss it. (08)

Q-4 Explain: Characteristics of Research (08)

OR

Q-4 Explain: Fundamental Research/Basic Research (08)

Q-5 What a test report or calibration certificate shall include? (08)

OR +

Q-5 Write a brief note on safety equipment's which are used in laboratories. (08)

Q-6 Describe 'Control of records' in NABL. (08)

OR

Q-6 Explain the following terms: a) Cross examination b) Re-examination (08)