# STUDENT'S PERCEPTION OF DIGITAL ASSESSMENT SYSTEM OF COMMERCE PROGRAM

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#### Abstract

The use of computer-assisted assessment (CAA) is growing for many purposes. Although computer-based assessments are growing in use, there is a lack of research on the expectations of students of online evaluation in general and classified areas in online assessment systems. The research sought to explore the expectations in graduates about the use of CAA and to examine the ability to use student input invalidating the test. Participants were students of TMV, commerce. Participants reported on the electronic assessment system's efficacy. Descriptive analysis of the questionnaire showed that a randomized question order, item analysis of the questions were the most prominent features of the online evaluation system. Computer friendly youngsters embrace these schemes.

**Keywords:** Computer-assisted assessment (CAA), Online Examination, Assessment, digital assessment system, and ICT

### **Hypothesis:-**

- 1) Online Examination is better than a pen and pencil system of examination.
- 2) Online Examination is more systematic.

## **Objectives:-**

- To understand the Online Examination System.
- To note the viewpoints of Students regarding the online examination system.
- To understand the ease of operating online examinations.

#### **Introduction:**

An E-Exam (e-exam) is a timed, supervised, summative evaluation carried out using a standardized operating system running each candidate's own computer. Such tests have advantages over paper-based tests and may include new multimedia, simulation, and software test items that give greater validity to professional work practices. E-Exams fall into the e-Assessment category, where students demonstrate their academic achievement using computers. Within this wide spectrum, e-Exams form a distinct use of technology where a computer called 'bring your own device '(BYOD) is started (booted) from a USB flash drive.

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Electronic examinations offer advantages such as ease of marking, reduced need to read illegible handwriting, time and raw material savings, and reduced overhead logistics costs.

Digital Examination Program is a technology-driven way to simplify examination practices such as identifying test habits with query banks, determining inquiry timer, objective / subjective questions lines, the paperless output of examinations via machine or mobile devices.

The system's aim is to establish an Online Assessment System, which is used to assess the students 'domain knowledge, and employees with regard to the specific technology. Time-consuming process and error-prone due to human limitations is the manual procedure used for conducting the examination.

It is named electronic assessment performing tests and checking on the Web. The best part of online testing is that the examiner may start the check from anywhere using a tablet or a Computer.

As it is easy to access at any time, the internet-based review method is becoming popular. The digital assessment tool used for student identification, document management, and evaluation, as well as for exam performance.

Digital Test requires e-examination. Already a day of internet testing, taken in various ways, such as webbased, mobile-based, even takes as a LAN / center-based test. The teacher will build their question bank in online analysis and use the question bank query to produce test as appropriate — study video as well in several online test apps providing an alternative to share study material.

We also get the following future by electronic exam software:

- The teacher can do detailed analysis such as subject matter wise, lesson wise, examination wise, problem wise, etc.
- A teacher can take the mock test when they need online testing to take time-bound testing or timer-bound testing as well as when questioning the need for wise timer bound.

## Background:-

In recent years, developments in ICT have led to an increase in the range of Internet tools that can be used for learning and research. Some have achieved widespread adoption (e.g., the simplicity with which email was adopted); some either seem to prefer limited uses or are less common than one might have expected at first (e.g., video conferencing). Machine-assisted assessment is one technology that is becoming more popular. The word machine-assisted evaluation may include some form of computer use in the assessment of person expertise, skills, and abilities. Computer Assisted Assessment (CAA) includes a variety of tasks, including the collection, labeling, and review of all or part of the student evaluation process utilizing stand-alone or networked devices and related technologies. Earlier research has shown a number of reasons for incorporating CAA in a course, sometimes culminating in the use of CAA as a combination of factors (Bull & McKenna, 2001).

Some of the main reasons cited are

- > Expanding the range of knowledge assessed;
- Increasing feedback to students and lecturers;
- > Extending the range of assessment methods;
- Increasing objectivity and consistency;
- Reducing marking loads; and

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> Supporting administrative efficiency;

# Purpose of the Study:-

The use of computer-based measurement has increased significantly over the last decade (Stephens & Mascia, 1997). Still today, little has been written on the opinions of students on computer-based assessment, In particular, the TRIAD system based on more complex interactions (Mackenzie, 1997). Since some of the published works deal with the prevalence of computer anxiety among students, the use of computers for evaluation was open to question

Given the history of CAA, we were interested in examining the impact on the learning process of incorporating CAA and further exploring students 'interpretation. The aim of the research was to obtain an understanding of students 'views of the use of CAA and to examine the opportunities for student input while validating the evaluation.

# Significance of the Study:-

There are many reasons why the use of computer-based assessment is increasing. Examples include education entrance exams, military training exams, and professional group certification exams. Although the use of computer-based examinations is increasing, there is not enough research on the perceptions of students about online evaluation in general and on categorized fields of online evaluation systems. Such research would provide detailed information on which parts of the online assessment systems are important, or which parts of the systems should be developed or revised for better results.

#### **Research Methodology:**

• Questionnaire Method for collecting data from the sample selected

### **Measures:-**

All the constructs were measured by adapting previously published scales. The questionnaire was in two segments. Segment A captured information about the respondents, such as information regarding - Gender, Age, and nature of using the internet.

Segment B captured information on independent variable: — Overall framework and operation levels of the system are clear and smooth, — Overall configuration color and background is normal harmonious for the system, — Overall screen layout and window design of the system is appropriate, Log-in interface is clear and easy to operate, Register interface is clear and easy to operate, It is easy to take an online exam, Ease of use and comfortable, Seeing left time makes me progress better, Assessment of Online Exam is fair, Cheating is difficult, It helps me to better understand my growth and improvements in the course by using the system, It helps me to learn this course by using this system, Better than paper-and-pencil form, Is Online Exam more systematic?

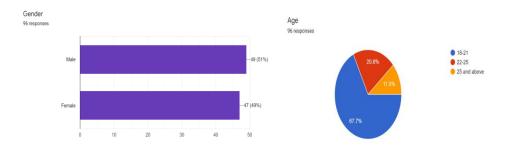
#### Data Analysis:-

Data were analyzed through descriptive statistical methods with mean and standard deviation; thus, it can be concluded that the instrument used in this study was consistent and reliable.

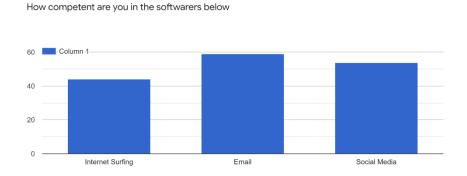
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**Table 1 Demographic Characteristic of Participants** 

Gender	N	%	
Male	49	51%	
Female	47	49%	
Age			
18-21	65	68%	
22-25	20	21%	
25 and Above	11	11%	



The third general question was asked to the student to know the usages of students regarding various software.



Participants were commerce students in the Department of Management, Tilak Maharashtra Vidyapeeth, Pune, who have enrolled in the course Commerce. Ninety-six students filled the questionnaire their demographic characteristics are shown in Table 1.

A questionnaire has been given to students to investigate the students' perceptions of the online assessment. Every instrument used in this analysis is listed below.

This questionnaire was structured to obtain information about the students 'application awareness and previous online assessment experience and their review of specific components such as user interface, learning method results, and use of the website's online evaluation system.

The questions were; Likert five-point scale items from strongly agree, agree, neutral, disagree, to strongly disagree. Reliability refers to the time permanence of the responses. To assess the reliability of this questionnaire, a pilot study with five students randomly selected from the population was undertaken.

## **Interpretation:**

After the Online Examination, the evaluation survey was conducted. From the 96 Commerce students who took the online exam were distributed the paper-based questionnaire. Collated responses, percentages and mean values are calculated.

## Main Findings, Observations, and Conclusion:

Table 2:- Evaluation of User Perception towards Online Assessment

Evaluation of User Perception towards		Agreement of Students					SD
Online Assessment							
	5	4	3	2	1		
1) Overall framework and operation		41	24	09	02	2.29	0.97
levels of the system are clear and							
smooth							
2) Overall configuration color and	18	50	25	02	01	2.09	0.73
background is normal harmonious							
for the system							
3) Overall screen layout and window	15	52	25	04	00	2.19	0.74
design of the system is appropriate							
4) Log-in interface is clear and easy	11	42	21	18	04	2.60	1.05
to operate							
5) Register interface is clear and easy	18	57	16	02	03	2.11	0.84
to operate							
6) It is easy to take an online exam	39	37	17	02	01	1.84	0.86
7) Ease of use and comfortable	22	54	17	03	00	2.01	0.73
8) Seeing left time makes me progress	08	40	28	06	14	2.77	1.17
better							
9) Assessment of Online Exam is fair	09	48	20	10	09	2.55	1.08
10) Cheating is difficult		36	18	14	02	2.27	1.08
11) It helps me to better understand my		56	18	02	01	2.06	0.75
growth and improvements in the							
course by using the system							
12) It helps me to learn this course by		60	19	02	00	2.08	0.66

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using this system							
13) Better than paper-and-pencil form	38	47	09	02	00	1.74	0.71
14) Is Online Exam more systematic?	15	46	13	06	16	2.60	1.30

The objective of this study was to explore the experiences of students on the use of online assessment. Descriptive questionnaire analysis showed that the system's most prominent features were eased to take an online examination, better than paper-pencil exams, and it helps in better learning of the course. Overall, the participants agreed on the online examination system's effectiveness.

#### Findings:-

This section shows the results of the study. Table 2 reports the means, standard deviations, and the application degree of variables. The result of descriptive statistics indicates general agreement of the students on the ease of computer examination system and better than paper pencils the traditional mode of examination.

In conclusion, the two developed hypotheses in this study are supported, as the findings of the statistical analysis indicated significant relationship ease of computer examination system and better than a paperpencil mode of examination.

# **Hypothesis Testing:-**

As per the table No. 2 the results shows that the hypothesis which are drawn are tested with the help of means, standard deviations, and the application degree of variables which shows that the hypothesis are tested and both are accepted.

Thus the hypothesis stands proved.

## **Conclusion:-**

Based on our review and study results, we anticipate that the familiarity of computers and evaluation tools are the most fundamental factors in the perception of online evaluation; in general, higher-level students will adapt most quickly to any new evaluation approach (Watson, 2001) and will quickly develop test-taking strategies benefiting from the new approach. Because students are from the Department of Commerce Education, therefore, in the current investigation, the higher-attaining students probably accommodated faster and thus benefitted more from computer-based assessment. Once the computers are fully familiar to all students, familiarity should become less important. Although students had been trained on how to use the online assessment system before the exam, some felt anxious at the exam. To avoid such problems, students must be comfortable with the online assessment system, and a warm atmosphere should be in the context in which they are taking the exam. The use of electronic assessment requires close collaboration between academic and technological units. Next, it takes extra effort to prepare queries for online environments. Questions will measure the level of information which is expected. Teachers should be instructed on how to administer an online course and ask questions over the Internet.

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Administrative units will embrace such an ecosystem of teaching-learning and plan the framework needed for the program. Ultimately, this type of system of appraisal operates by way of technological devices: machines, network devices, etc. Computers must be sufficiently powerful to run the Web pages, and the server should be stable.

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