

# Online Subjective Examination a Student Perspective

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Online education has become an integral part today mostly due to the COVID-19 scenario. Teaching, learning and evaluating are the main component of online education system. In examination online education also place very vital role. If considering the online option of exam mostly objective (MCQ) based has high priority compare to subjective form of exam due to lot of limitations during conduction of online subjective exams. As researches educationist pay more attention on subjective examination for overall evaluation of student. Present work tries to get students perspective on subjective examination through a survey conducted on graduate and post graduate level student on Marathawada region.

**Keywords:** Online Subjective Examination, Question Answering System, MOOC, Online Examination, Natural Language Processing.

## **1 Introduction**

Examination is a very crucial part of any type of teaching learning process. Due to Covid-19 pandemic the teaching globally moved and relied on online methods of teaching and learning. In same way examination also became online. The examination majorly adopted the pattern of objective base approach i.e. MCQ, True or False, Fill in the blanks, Match the following as still conduction of online subjective exam faces many hurdles. If we consider the pedagogy of examination or advice of educationalist or experts they give more stress on having subjective examination where define, explain, Describe, Discuss elaborate etc. type of questionnaires” are considered. As this expert believe that such subjective exams really test the level of understanding and abilities of expression, ability of applying approach, ability of problem solving method etc. Bloom’s Taxonomy which is widely adapted through the globe for getting better way of exploring the level of concerned topic. It also provides equal importance to analysis, synthesis, evaluation and application. This paper tries to get the opinion of the second importance stakeholder of education system i.e. Student perspective their opinion of having subjective examination in online scenario.

## **2 Examination**

Exams are one of the important ways to determine a person's ability. Exams can assess candidates' subject understanding and its abilities to use in real world applications. As a result, authoring bodies, governing the education implement a systematic procedure to achieve the desired results, which is known as the Choice Question, True False Question, Matching Question, Short Answer Question, Long Answer Question, Essays Writing, and Mix Exam, practical exams and viva also. Due to the pandemic situation the studying and learning process now also it includes online course content, web-based learning is also known as online learning or e-learning, the web allows for email discussion forums, video conferencing, and live lectures (video-streaming), static pages such as printed course materials, may also be available in web-based courses and blended learning is getting more encouragement both from academicians and students [2]. The main goal of the web-based online examination system is to thoroughly evaluate the student through a fully automated system that not only saves time but also provides fast and accurate results. They can create papers based on their experience from any location using the internet and time, and there is no need to use extraneous materials such as paper, pen, and so on. The online examination system assists students by providing a quick and easy way to appear for the test. In general online education courses use an objective-based answering system that is simple to evaluate and maintain when compared to university-level courses that must test a student's concept level and in a traditional education system, the importance of subjective or descriptive examination cannot be overstated [3].

Examinations are important aspect of an education system. COVID-19 has again raised the importance of online education, distance education and has taken a now a frame work for example:

## **3 MOOC**

Massive open online courses (MOOCs) have notoriously low completion rates, identifying student patterns associated with course completion may aid in the development of interventions to improve retention and learning outcomes in MOOCs [4]. Massive Open Online Courses (MOOCs) stay unrestricted virtual courses accessible on behalf of anybody to register, lots of people universally allow MOOCs to pick up for a diversity of details, containing: profession progress, shifting professions, institution provisions, additional wisdom, lifetime education, commercial eLearning & training, and

further, MOOCs need naturally changed the method the world acquires, there are different types of MOOC platforms available today worldwide [5].

### **3.1 SWAYAM (India)**

Study Webs of Active Learning for Young Aspiring Minds abbreviated as SWAYAM, it is a programmed originated by Government of India and designed towards reach the three basic philosophies of Learning Strategy viz., access equity and quality, the impartial of this struggle remains near income the greatest instruction knowledge properties to all containing the greatest underprivileged SWAYAM pursues to connection the digital division aimed at learners who must previously continue untouched in the digital revolution then must not stood intelligent to connection the conventional of the information economy, this exists complete concluded a strategy that facilitates presenting of altogether the courses [5].

### **3.2 Coursera**

Respectively course arranged in Coursera remains instructed as flavors of best teacher can be enjoyed since the world's finest institutions and informative experts provide world class, professional as well as job oriented courses. Courses include detailed video talks, auto-graded and peer-reviewed projects, besides community discussion gatherings, and at successful completion electronic Course Certificate is issued [5].

### **3.3 MIT Courseware**

MIT Open Course Ware (MIT OCW) is an activity of the Massachusetts Organized of Innovation (MIT) to distribute all of the instructive materials from its undergrad- and graduate-level courses online, unreservedly and transparently accessible to anybody, anyplace. MIT Open Course Ware (OCW) is free, open, openly-licensed computerized collection of high-quality instructing and learning materials, displayed in an effortlessly available organize, browse through, download and utilize materials from more than 2,500 MIT on-campus courses and supplemental assets, all accessible be near than Imaginative Commons permit for open sharing. All such courses and the assessment by conducting objective test after each unit as well as a final test on the whole course, it is also objective, these is a need of online subjective examination.

## **4 Online Examinations**

Many teachers prefer to administer online examinations for courses that are suitable for online testing, such as programming languages, this method can be used to assess student achievement and assist teachers in assigning fair grades, however due to insufficient network security, students could communicate with one another via the network without the teacher's permission [6]. A Multiple Choice Questions (MCQ) based examination framework is used in the online examination arrangement; it makes it simple to use the environment for both test-conductors and understudies attending examinations [7]. Online testing systems are extremely convenient and quick; the online examination system serves three functions, 1) allowing online examination takers from different locations to take the exam at the same time via the online examination website, 2) enable entrance, result checking, and admission status on the websites with careful planning and proper coding, 3) to integrate a database with the program, allowing administrators to easily add questions and create entrance examinations [8].

Table 1 shows difference between paper-pen exam and online exam

Paper-Pen Exam	Online Exam
Huge organizational cost	Useful basic result cost
Geographical restriction	Broad capacity
Critical turnaround time	Real time analytical reports
Inspect a number of invigilator to control cheating	AI based proctoring innovation to anticipate online cheating

## 5 Subjective Examination

- It is recommended as at higher level of education [University level] critical thinking, problem solving becomes must.
- Subjective exam help to develop writing skills of a student which he tries to express about a concept (developing, professional knowledge).
- Expressing a concept requires depth knowledge about a topic. Thus it tests the deeper knowledge of the candidate [1].

All over the global researchers, educationist demands for online subjective examination this paper taken into account the perspective of student towards online subjective examination.

## 6 Method

A Google form for collecting the survey for understanding the perspective of the main stakeholder i.e. student and research scholars on subjective examination at a graduate and post graduate level are obtained. Survey it has also include student name, class, degree fill up the in Google form. The study use 4 point Likert scale survey.

## 7 Collections

The forms were distributed among 183 student of conduct of graduate and post graduate level.

Snapshot 1. Student Survey Form

**Review on Subjective Question Answering**

Subjective Question Mean? 1) One word answer 2) One sentence answer 3) Lengthy answer ( Definition, Explain, What, How, etc) type of question.

**Name \***  
Short answer text

**Class \***  
Short answer text

**Degree \***  
Short answer text

1) Do you agree to have subjective exam

Yes

No

2) If yes What level of importance

Necessary

Very necessary

The image shows a screenshot of a survey form with 11 questions. Each question is followed by four radio button options: Disagree, Agree, Neutral, and Fully Agree. The questions are:

- 3) Do you think instructor give high grades in subjective test.
- 4) Do you think you can score more grade in subjective test
- 5) Do you like to use critical thinking skills
- 6) Do you like problem solving question
- 7) Written test show the instructor what you know
- 8) Do you think your handwriting is bad, or clumsy
- 9) Do you think you are a slow writer
- 10) Multiple Choice tests are too easy
- 11) It is easy to guess multiple choice answers

The question typically tried to raise the importance of subjective exam, the question were also posed to provide their own insight about such exams. Along with that we tried to see how exam and its correlation about writing style, speed is judged by the student's themselves. The analysis of the survey is discussed below in section 8.

## 8 Analysis & Result

The taking after area contains the result comes about of the study survey and the descriptive statistics of the information (see Table 2). Table 2:- the result from the survey (Fully agree = 4, Neutral = 3, Agree = 2 and Disagree = 1) [9].

Survey on subjective examination perspective show that 80% student has agreed for subjective examination while 20% disagree. The survey has also highlighted importance of subjective examination on objective examination by students. Thus the survey has clearly shown that major of students have interests on subjective examination.

**Table 2.** Survey result

<b>S.No.</b>	<b>Question</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
1	Do you agree to have subjective exam	79.8%	0	0	20.2%
2	If yes What level of Importance	76%	0	0	24%
3	Do you think instructor give high grades in subjective test?	3.8%	32.8%	43.7%	19.7%
4	Do you think you can score more grade in subjective test	8.7%	25.7%	52.5%	13.1%
5	Do you like to use critical thinking skills	13.7%	28.4%	52.5%	5.5%
6	Do you like problem solving question	17.5%	13.7%	50.3%	18.6%
7	Written test show the instructor what you know	8.7%	24%	45.4%	21.9%
8	Do you think your handwriting is bad, or clumsy	3.3%	16.4%	26.2%	54.1%
9	Do you think you are a slow writer	6%	14.2%	32.2%	47.5%
10	Multiple Choice tests are too easy	16.9%	24%	29.5%	29.5%
11	It is easy to guess multiple choice answers	10.9%	19.7%	37.2%	32.2%

## 9 Conclusion

In this paper we discuss about education system and online examination system patterns. We have conducted conduct survey on aspect subjective examination by graduate and post graduate level students. The analysis had a main focus to understand the importance of subjective examination with the perspective of students. As online examination has become most efficient, affordable medium for teaching learning process during the covid-19 pandemic. In any teaching learning process examination is the most important component. In online education tools or platforms used mainly support objective examination and in such cases subjective examination is generally ignored due various constraints. Still researchers and educationist pay more focus on subjective examination for overall performance evaluation of a candidate. Students are also the key stakeholders in education system, and their views also are as important as others. So we have taken survey of students to check whether students also give same weightage to subjective examination. The analysis shows that 80 % of students showed interest on subjective examination, which is very good mark in any system to flourish. On the same hand the next step will be making online subjective examination conduction and evaluation more flexible , simple and automated even with all its major constraints or hurdles while development of such systems.

## Acknowledgment

Authors would like to acknowledge and thanks to ChatrapatiShahuMaharaj Research Training & Human Development Institute (SARTHI), Pune they awarded fellowship, CSRI DST Major Project sanctioned No.SR/CSRI/71/2015 (G), and also thanks to Computational and Psycholinguistic Research Lab Facility supporting to this work and Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India.

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