

# Walchand College of Engineering, Sangli



## Department of Information Technology

Academic Year: 2017 - 2018

**Project Title: - Question Paper Quality Checking  
Tool based on Bloom's Taxonomy**

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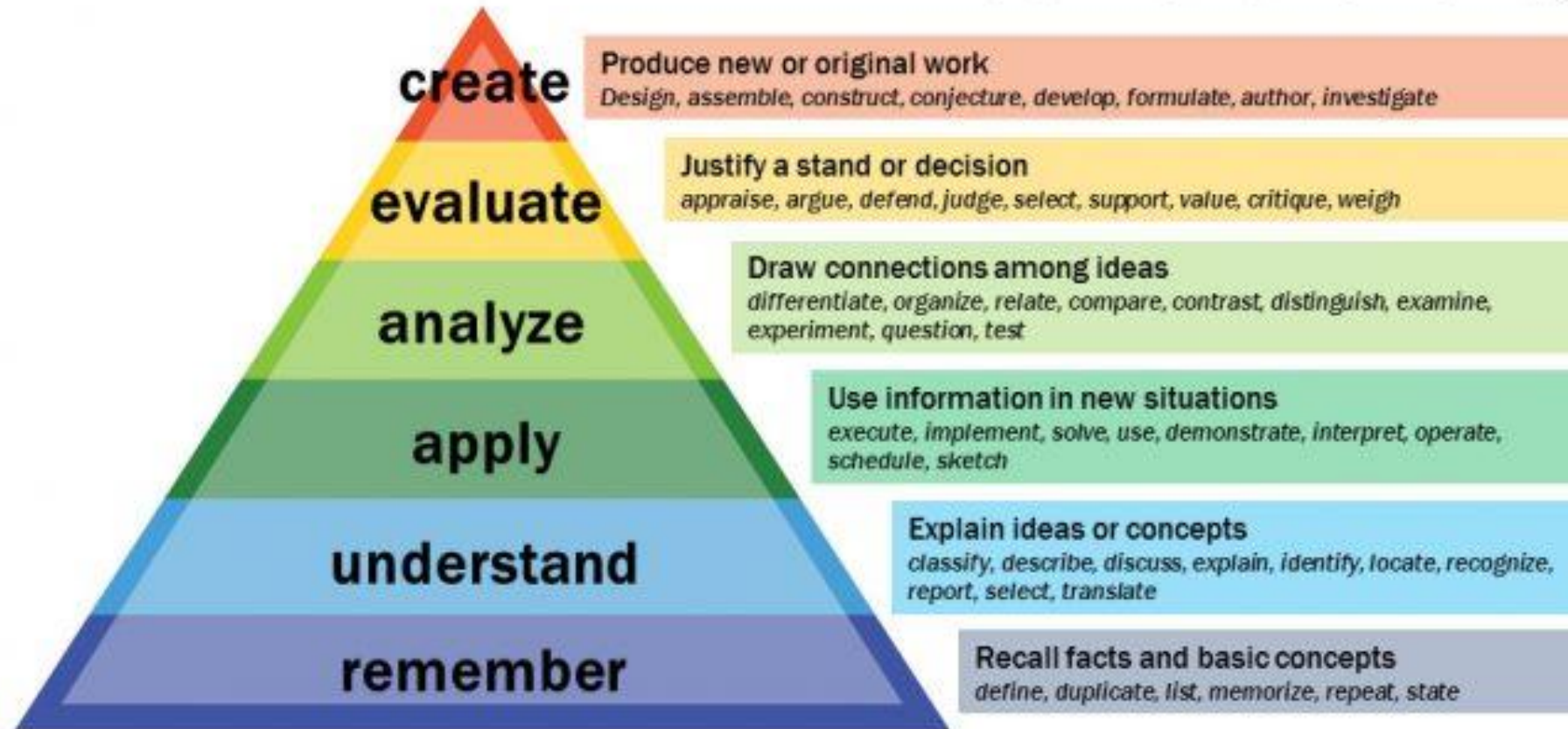
## Introduction:

- Written examination is the most common approach used by any higher education institutions for students' assessment.
- Teacher may sometime face the challenge in analysing whether their examinations question comply within the requirements of the Bloom's taxonomy.
- The hierarchical model of Bloom's are widely used in education fields for constructing questions to ensure balancing and student correct assessment.
- The aim of this project is to propose a rule based approach in determining Bloom's taxonomy cognitive levels of examination questions through natural language processing.

## Objectives:

- To study the question quality using various literature survey.
- To propose a rule based approach in determining the Bloom's taxonomy cognitive level of examination question through **Natural language processing (NLP)**.
- To maintain the question database and give the quality grading to users.
- To check the quality of question paper by parsing the question paper and using **Blooms Taxonomy**.

# Bloom's Taxonomy



## What is Quality Of Question Paper:

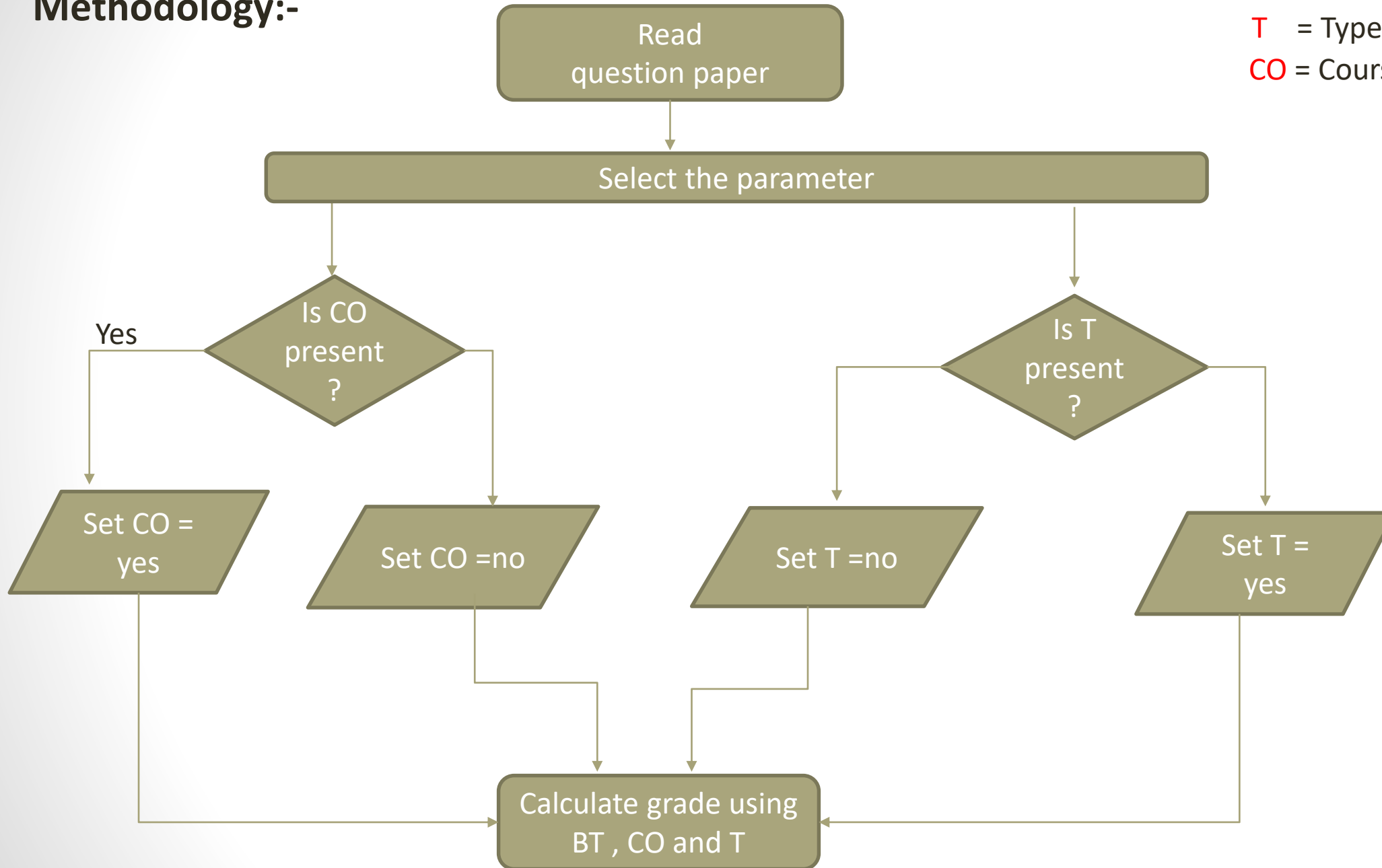
Quality of question paper can be determined by high level of **Bloom's taxonomy** [BT], match with higher level of **course outcomes** [CO] and match with **type of question** [T] set by faculty.

## Methodology:-

**BT** = Bloom's Taxonomy

**T** = Type of Question

**CO** = Course outcomes

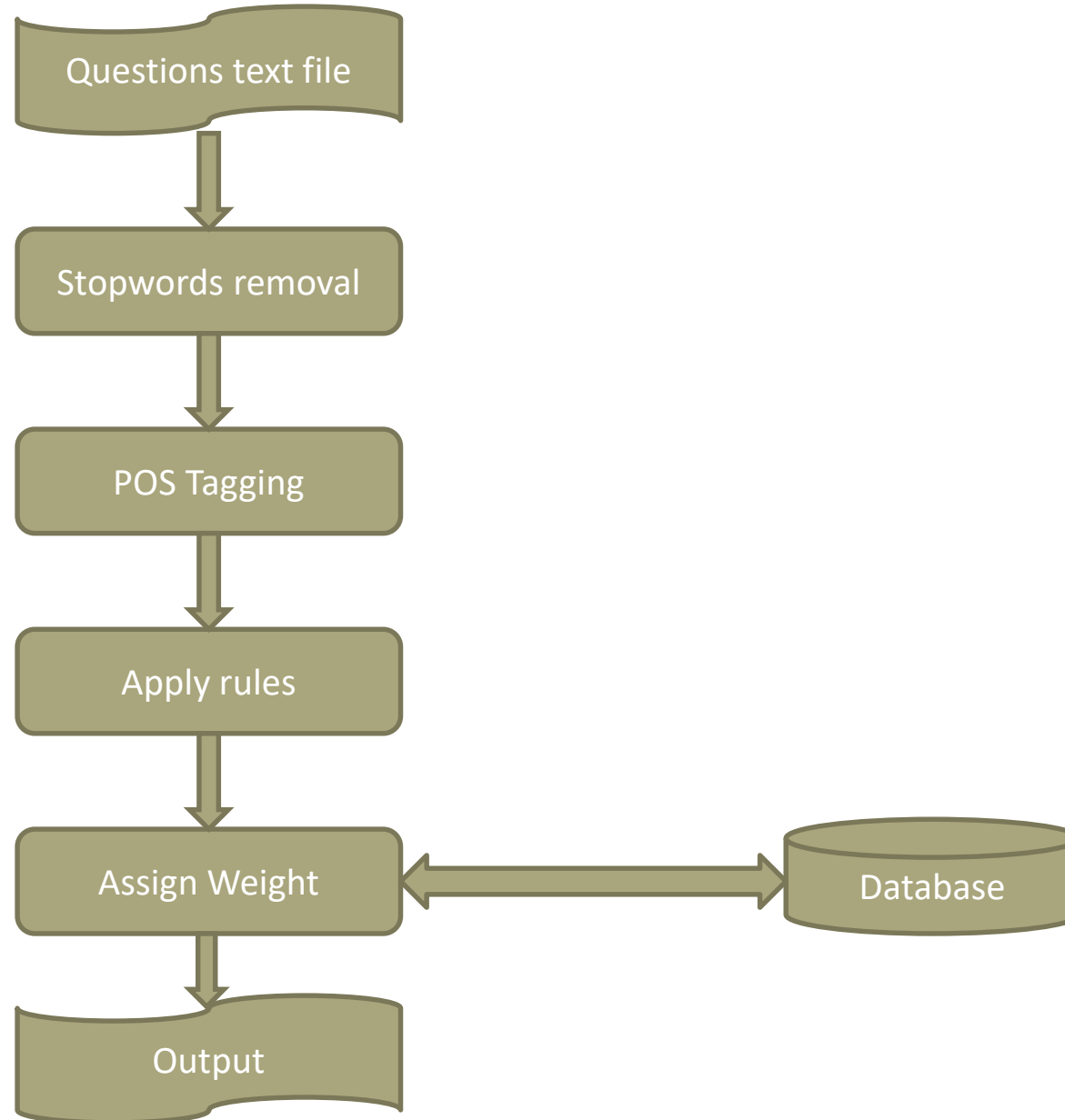


Considered parameters for determining of good question paper:

					Grade
1.	BT = &&	T= &&	CO=	→	A
2.	BT = &&	T= &&	CO!=	→	B
3.	BT= &&	T!= &&	CO=	→	C
4.	BT= &&	T!= &&	CO!=	→	D
5.	BT!= &&	T= &&	CO=	→	E
6.	BT!= &&	T!= &&	CO!=	→	F





## Work flow:



# Working Screenshots:

MainWindow En 11:30 AM



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# Question Paper Quality Checking Tool

Is question type [T] available in question paper ? ☐ Yes ☐ No

Is Course Outcome [CO] available in question paper ? ☐ Yes ☐ No

Number of modules considered for setting the question paper ?

- Developed and maintained by Group no. 12



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Question Paper Report						
	Ques Type	Ques No.	Question	Marks	Verbs	Bloom's Level
1	remembering	1	What are th...	2	N.A,	NA
2	creating	2	Draw and e...	3	elaborate,	Understand...
3	applying	3	Enlist the fi...	4	Enlist,	Rememberi...
4	understand...	4	Justify why...	5	required,	Applying
5	creating	5	Give the ba...	6	Give,follow...	Understand...
6	evaluating	6	Write and e...	7	explain,ope...	Creating
7	remembering	7	What is sys...	3	Explain,	Creating

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**THANK YOU..**