

APPENDICES

A. Attitude Scale of Constructivist Approach for Pre-Service Science Teachers

Name:

Gender:

Age:

Course:

S.No	TEST ITEMS	STRONGLY AGREE	AGREE	NOT SURE	DISAGREE	STRONGLY DISAGREE
1.	5E model of creating learning situation made your Internship in teaching program very interesting.					
2.	5E model of Constructivist approach helps student to understand the essence of the subject.					
3.	5E model of Constructivist approach enhances student's self-confidence.					
4.	I think 5E model of constructivist approach has no effect on learning science.					
5.	5E model of Constructivist approach gives students feeling of responsibility.					
6.	5E model of Constructivist approach decreases students' interest towards lessons.					
7.	5E model of Constructivist approach facilitates students' learning.					
8.	5E model of Constructivist approach increases the interaction between the teacher and student.					
9.	5E model of Constructivist approach decreases the interaction among students					
10.	5E model of Constructivist approach enables students to relate knowledge with life experiences					
11.	5E model of Constructivist approach assures a learning environment in which all the students are eager to learn.					

12.	Applying the 5E model of constructivist approach in Science lesson, in particular biology and chemistry, is effective for students in attaining knowledge.					
13.	5E model of Constructivist approach gives the student a chance to evaluate themselves.					
14.	Creating constructivist environment is <i>very hard</i> in the Indian schooling context.					
15.	5E model of Constructivist approach is <i>not suitable</i> for the circumstances of our country.					
16.	5E model of Constructivist approach is not appropriate for the present socio-economic level of our country.					
17.	Being a teacher in 5E model of constructivist approach is difficult.					
18.	Incorporating 5E model of constructivist approach is not suitable for crowded classrooms.					
19.	A lesson plan based on 5E Model of constructivist approach is not possible to be completed in the stipulated time of forty minutes of a classroom.					
20.	5E model is a 'difficult-to-apply' approach in the classroom.					
21.	The evaluation of students is troublesome in 5E model of constructivist approach.					

INTERVIEW

B. Interview Schedule for Teacher Trainees to explore the feasibilities and challenges in creating and implementing Learning Situations based on 5E model of Constructive approach of teaching and learning.

Name of the Teacher Trainee:

Course:

Gender:

Age:

Q 1: Hi there! How was your internship program?

Q 2: Could you please tell me about the process skills that were useful to you in creating and implementing the learning situation?

Q 3: Were your learners able to internalize the process skills that you used and were they able to apply them in the classroom situation?

Q 4: Among all the 5Es, which stage was easy to create and execute and which stage was problematic? Explain?

Q 5: What were your experiences with the 'Engage' phase?

Q 6: While executing 'Explore' phase, how did you form groups in the classroom and what were the difficulties you encountered?

Q 7: What, according to you, were the groups learning experiences of the learners/students?

Q 8: During the phase 'Explain' were learners making meaning out of the group discussion. Were they able to explain the concepts in their own words?

Q 9: As a facilitator, did you help learners in clarifying and modifying their understanding of learning aspect?

Q 10: What are the difficulties that you faced during the phase of elaborate? Explain your observation.

Q 11: Were learners able to apply the new concept learnt to real life situation especially in terms of critical and reflective thinking among learners?

Q 12: Could you please highlight the issues that were problematic and the issues that were satisfactory throughout 5E model of learning situation in details!

Q 13: How practical in your opinion is the 5E Model of teaching in the Indian context?

Q 14: Is teaching through 5E effective in all children of all age groups? Why not?