

7. In which stage of does George Polya, a problem solver think about the different strategies of problem solving?
  - a. Understanding problem
  - b. Thinking of a plan
  - c. Carrying out plan
  - d. Looking back
8. Set of tasks that student can do with help of more knowledgeable others minus set of tasks that can do himself/herself is known as
  - a. Zone of proximal development
  - b. Zone of actual development
  - c. Central zone of development
  - d. Zone of problem
9. According to Skemp's theory, which one of the followings is not the factor affecting in learning mathematics?
  - a. Social factor
  - b. Schema
  - c. Emotion
  - d. Concept formation
10. According to Bruner, which one of the followings is the first phase of learning?
  - a. Symbolic
  - b. Enactive
  - c. Iconic
  - d. Acquiring mode

**Mid-West University**  
**Examinations Management Office**  
Surkhet, Nepal

**End Semester Examination-2081**

Level: M.Ed. / I Semester

Time: 3.00 hrs

FM: 60

PM: 30

**Sub: Foundations of Math Education (MATH 513)**

*Candidates are required to give their answers in their own words as far as practicable.*

Attempt All the Questions:

**Group "B"**

**6×5 = 30**

1. How do you differentiate fallibilist philosophy from absolutist philosophy in Mathematics?
2. Write your short reflection on Piaget's theory of learning and mention its five implications in teaching learning mathematics in basic level.
3. Introduce briefly the individualized instructional model. Give any five practical suggestions to implement it Nepali classrooms consisting more than fifty students.

**Or**

Elaborate the stages of expository model to make it effective in teaching mathematics.

4. Compare and contrast between media and technology with suitable examples.
5. Write a short note on spiritual, moral, social, and cultural issues concerning mathematics education.
6. Describe briefly the critical mathematics education.

**Or**

Describe the challenges of using multimedia and internet in teaching and learning mathematics in school level.

**Group "C"**

**2×10 = 20**

7. Write your critical reflection on the Skemp's theory of learning. Write its implication on teaching mathematics at basic level in Nepali classroom.
8. Select any one topic from grade Ten mathematics suitable for the problem solving strategy. Write teaching learning activities to teach the selected topic using this strategy.

**Or**

Illustrate the different foundations of Mathematics education.

**THE END**