UNIVERSITY OF EDUCATION
"UExam" Semester-IV, 2019
MA Special Education Session:2017-19
Course Code: SPED4141 (Physically Challenged Children)
Subject: Teaching of Mathematics to PCC

No.- 07

Roll No. (in fig.)_____

Roll No. (in words)_____

Candidate's Signature.

Signature of Addl. Supdt.

SECTION: I (MCQ's)

Time Allowed: 20 Minutes **Max. Marks: 18**

NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover carries zero mark. Cutting and Overwriting is not allowed.

Q1.

- Methods for quality math instruction include using visuals, making connections, using formative assessments, and teaching strategic thinking.
  a. Making connections b. Using formative assessments c. Using visuals d. All
- Math deals with:
  a. Subjectivity b. Objectivity c. Problem solving d. None
- Arithmetic, algebra, geometry, and calculus are branches of:
  a. Mathematics b. Physics c. Engineering d. Numeric
- Which method is not for teaching of mathematics:
  a. Lecture b. Rote memorization c. Both A & B d. None
- Drawing ----------is the process of evaluating information and making appropriate judgments:
  a. Analytical Conclusion b. logical conclusions c. All d. None
- The student has the ability to transfer their knowledge into new situations and apply it to new contexts:
  a. Procedural Understanding b. Theoretical Understanding
  c. Conceptual Understanding d. None
- For children to succeed in mathematics, a number of brain functions need to work together:
  a. Cognitive Theory b. Learning Theory c. Both A & B d. None
- Inductive approach is advocated by:
  a. Pestalaozzi b. Francis Bacon c. Both a & b d. None
- Mathematics is the ----------activity which consists in carrying out constructs one after the other:
  a. Mental b. Practical c. Social d. Economic
- Inductive approach proceeds from:
  a. Concrete instance to abstract rules b. Known to unknown c. Simple to complex d. All
- Square of an odd number is:
  a. Even b. Odd c. Doubled d. None
- $3^2 =$:
  a. 33 b. 6 c. 9 d. 5
- Deductive approach proceeds form:
  a. Simple to Complex b. Concrete to Abstract c. Known to unknown d. Unknown to Known
- Learning by doing:
  a. Deductive Method b. Inductive Method c. Laboratory method d. Drill Method
- Human intellectual development progresses through four sequential stages.
  a. Jean Piaget b. Skinner c. Vygostky d. Romberg
- Measuring tools such as:
  a. Both B& D b. Ruler c. Only D d. Protractors
- Mathematics problems have---------right answer:
  a. More than one b. Only one c. Both B & D d. Three
- Mathematics is the ---------- and key to all sciences:
  a. Art b. Method c. Aid d. Gateway

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Time Allowed: 100 Minutes. **Max. Marks: 42**

Section II (Short Answer)

3x6 = 18

Q.2- Write short answers of the following.

i. Enlist 5 methods of teaching mathematics.
ii. Define mathematics.
iii. Discuss Procedural understanding of mathematical connections.
iv. What is meant by mathematical communication? Give two examples.
v. Differentiate inductive and deductive approaches of teaching mathematics.
vi. How teaching learning aids of teaching mathematics are important for achievements?

Section III (Essay Type)

6x4 = 24

Answer the following Questions

Q.3:- Discuss criteria for successful problem solving in mathematics at elementary level.
Q.4:- Give brief explanation about stages of Jean Piaget's cognitive theory in perspective of mathematics.
Q.5:- How does use of technology in teaching mathematics affect learning mathematics?
Q.6:- Explain sequence of elementary mathematics curriculum in detail.