20 Most Important

Math Pedagogy Questions for CTET 2018

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PEDAGOGY OF MATHEMATICS

1. As per the vision statement of NCF 2005, school mathematics takes place in a situation where
   A. Students are forced to learn all concepts by daily practice
   B. Teacher is an active narrator only
   C. Mathematics is part of children's life experience
   D. Memorize formulae only

2. "Mathematics helps to develops qualities of cleanliness, punctuality, honesty, self-confidence" this statement related to which type of mathematical values.
   A. Moral values
   B. Social values
   C. Cultural values
   D. Disciplinary values only

3. "Mathematics is the mirror of civilization" this statement corresponds to which value of mathematics?
   A. Social   B. Cultural
   C. Disciplinary   D. None of these

4. In RCEM system, four objectives are classified in the form of:
   A. 5 mental abilities
   B. 4 mental abilities
   C. 17 mental abilities
   D. 3 mental abilities

5. A teacher in class 7th provided each child with a centimeter grid paper and a pair of scissors. She wanted to teach them to explore how two dimensions shapes can be folded into three dimensional objects. Which of the following concepts are the students exploring:
   A. Reflection   B. Decimals
   C. Rotation   D. All of these

6. Which of the following statements proves mathematics to be a logical and scientific subject?
   A. The philosophy of mathematics is concerned with the role of language and logic in proofs.
   B. The language and tools of mathematics are used by other scientist especially. physicists and computer scientists.
   C. Like other scientific subjects, mathematics requires evidences to prove the claims.
   D. All of the above.

7. Who said, "Mathematics is the study of abstract system built of abstract elements. These elements are not described in concrete fashion."
   A. Einstein
   B. Marshall. H. Stone
   C. Bertrand Russell
   D. Locke

8. What kind of problems can a mathematics teacher face while teaching the mathematics subject?
   A. Although mathematics carries great importance in the curriculum, certain students find it as an uninteresting subject
   B. Mathematics is a kind of subject which requires a great deal of teaching preparation, lack of which can lead to a failure.
   C. Both (a) and (b)
   D. None of these

9. NCERT text books on Mathematics are written keeping in mind the recommendations of
   A. National curriculum framework 2005
   B. Syllabus provided by CBSE in 2006
   C. National policy on education1986
   D. National policy on education1968

10. Match List-1 with List- 2 and select the correct answer using the codes given below the lists.

List-1	List-2
P- Deductive method	1.B.F Skinner
Q- Inductive method	2.Aristotle
R- Project method	3.David Hume
s- Auto-instructional teaching	4.William Heard Kilpatrick

   A. P-3; Q-2; R-4; S-1
   B. P-2; Q-3; R-4; S-1
   C. P-4; Q-3; R-2; S-1
   D. P-2; Q-4; R-1; S-3

11. The importance of mathematics at primary level is
   A. cultural   B. mental
   C. practical   D. religious

12. Kumar belongs to a very poor and conservative family, what teacher can do to help him?
   A. A special school and classes may be opened for him
   B. Special training may be given to the teacher
   C. He should be treated as a normal pupil
   D. He should be sympathized

13. Following ICT tool can be effectively used for exploratory tasks in geometry class
    A. Geo-gebra software
    B. Calculator
    C. Video links
    D. Cartoon strip software

14. The most common way of proving in geometry is
    A. Inductive method
    B. Deductive method
    C. Proof by contradiction
    D. Proof by counterexamples

15. One of the major reasons for errors in mathematics is due to
    A. Hierarchical nature of the subject
    B. Absenteeism of students
    C. Lack of teaching resources
    D. Prior notion

16. Heuristic method was propounded by
    A. A. W.Young   B. H.E Armstrong
    C. Jojeph landon   D. Stevenson

17. When the students of the class are divided into some homogeneous groups, it is called _____
    A. Class teaching
    B. Group tutorial teaching
    C. Individual tutorial teaching
    D. Informal teaching

18. **Directions:** Answer the following questions by selecting the **most appropriate** option.
    Meaning of the word 'Heurisco' is___
    A. To discover   B. To learn
    C. To think   D. To know

19. **Directions:** Answer the following questions by selecting the **most appropriate** option.
    The step of lecture method is___
    A. Planning
    B. Presentation
    C. Receiving
    D. All of the above

20. Teacher conducted an oral assessment in class and found that Harish can speak definition of all type of numbers - odd, even, prime and composite accurately but not able to identify the numbers accurately, when given a set of numbers. Teacher reports that Harish
    A. has good memory, but lacks practice.
    B. has good memory, but lacks concentration.
    C. has good memory, but lacks conceptual understanding
    D. has good memory, but lacks analytical ability

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