

B.Ed. (2 years) (CBCS) Semester 2/3

Subject: Pedagogy of School Subjects Mathematics

1. Mathematics is an example of the following typology.
 - a. Hard-pure
 - b. Hard-applied
 - c. Soft-pure
 - d. Soft-applied
2. Sub disciplines as Physics, Chemistry, Geosciences, Life Sciences are some examples of:
 - a. Natural Sciences
 - b. Social Sciences
 - c. Humanities
 - d. General Science
3. This subject is the study of trade and business activities such as the exchange of goods and services from producer to final consumer.
 - a. Commerce
 - b. Economics
 - c. Geography
 - d. Business studies
4. Development of number sense and skills of estimation and approximation should be a part of _____.
 - a. Primary school
 - b. Upper primary school
 - c. Secondary school
 - d. Higher secondary school
5. At the primary level mathematics should not focus on heavily on _____.
 - a. Development of language and symbolic notation
 - b. Helping children make simple comparisons and classifications
 - c. Enabling children to make connections of the subject with everyday understandings.
 - d. Standard algorithms of addition, subtraction, multiplication and division of whole numbers
6. Mathematics should not be taught
 - a. as an isolated subject
 - b. in relation to other subjects
 - c. to think and reason
 - d. to analyse and articulate logically
7. Who said, "Mathematic is a way to settle in mind a habit of reasoning"?
 - a) Locke
 - b) Higgins
 - c) Robbins
 - d) Galileo
8. Mathematics develops the abilities of _____

- a) communication
 - b) creativity
 - c) analysis
 - d) numerical
9. Which of this statement is not true for Mathematics?
- a. All objects, concepts, statements have clear and precise meaning.
 - b. Results in Mathematics are either right or wrong, accepted or rejected.
 - c. Most of the mathematical concepts are without concretization.
 - d. Definitions or a sentence stating a result, are ambiguous in Mathematics
10. Choose the correct form of this property 'the addition and multiplication of two real numbers is independent of the order in which they are combined'
- a. $a + b = b + c$
 - b. $a + b \times c = c + a \times b$
 - c. $a \times c + b = a \times b + c$
 - d. $a - b = b - c$
11. Mathematics is the subject which provides an opportunity for the Training of the mind to close thinking, stirring up a sleeping and uninstructed spirit. Identify the value of teaching mathematics.
- a) Cultural
 - b) Disciplinary
 - c) Intellectual
 - d) Moral
12. In mathematics right is right and wrong is wrong for ever. Which value of teaching mathematics do this statement corresponds to?
- a) Cultural
 - b) Moral
 - c) Intellectual
 - d) International
13. The settled principles, tenets, working rules or general truths through which teaching becomes interesting, easy and effective are called _____.
- a) pedagogy
 - b) maxims
 - c) correlation
 - d) rules
14. While teaching counting to the students we should first take the help of concrete objects like beads, stones etc and then proceed to digits and numbers.
- a) Known to unknown
 - b) Concrete to abstract
 - c) General to particular
 - d) Whole to Part
15. Students ability, creativity, capacity is directed only to a particular topic for longer span of time and these students get concrete and thorough knowledge of topic. This is one of the merits of _____ approach of curriculum construction.
- a) Concentric

- b) Topical
 - c) Spiral
 - d) Linear
16. _____ means the logical and systematic breaking up of the curriculum from the point of view of the pedagogue for the purpose of its effective transaction.
- a) Unit plan
 - b) Year plan
 - c) Pedagogical analysis
 - d) Academic discipline
17. An outline of the important points of a lesson arranged in order in which they are to be presented to students by teacher is termed as _____
- a. Year Plan
 - b. Unit Plan
 - c. Lesson Plan
 - d. Syllabus
18. Which of the following is not true about lesson plans?
- a. It helps in orderly delivery of the content
 - b. It saves from haphazard teaching
 - c. It is developed by the students
 - d. it makes the teacher more confident
19. The complementary written work is _____
- a) oral work
 - b) drill work
 - c) review
 - d) homework
20. The speed and accuracy of mathematics cannot be possible without _____
- a) drill work
 - b) written work
 - c) oral work
 - d) drawing work
21. Which of the following statement is true regarding purpose of review in mathematics:
- a) Stimulating interest in study
 - b) To fix new learning
 - c) To develop habit of precision
 - d) To develop social virtue
22. Problem solving method helps the pupils to:
- a) develop skill of measurement
 - b) develop mental and cognitive abilities
 - c) develop sense of counting
 - d) appreciate the beauty of mathematics
23. The Patron of the mathematics club is _____.
- a. Principal
 - b. Mathematics Teacher
 - c. Students

- d. Club members
24. Textbooks fail to do the following.
- Reconstructing answers when they forget the question
 - Supplementing classwork
 - Developing problem solving attitude among the pupils
 - Reaching accurate conclusion
25. Which of this is not a Virtual Manipulative?
- Algebra Tiles
 - Interactive Tangram
 - Animation
 - GeoGebra
26. This statement is not true for GeoGebra.
- Has an in-built support for animation.
 - Helps to understand the bond between Algebra and Geometry
 - Develops a good vocabulary for pupils
 - Helps to blend dynamic visualization and traditional Calculus class
27. Command over Mathematics, favourable attitude towards Mathematics and providing remedial teaching are the _____ qualities of the mathematics teacher.
- General
 - Specific
 - Professional
 - Individual
28. Attending seminars, workshops, conferences are avenues of _____.
- Cooperative Profession Programme
 - Continuous Promotion Programme
 - Continuous Professional Development
 - Collaborative Professional Programme
29. Which of these is not a contribution of Ramanujan?
- The magic square
 - Elliptic functions
 - The Theory of numbers
 - Solid Geometry
30. He was the first to give the world the value of π .
- Ramanujan
 - Euclid
 - Pythagoras
 - Aryabhatta