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

Subject: Pedagogy of School Subjects Mathematics

| 1. | Ma | thematics is an example of the following typology. |
|----|-----|--|
| | a. | Hard-pure |
| | b. | Hard-applied |
| | c. | Soft-pure |
| | d. | Soft-applied |
| 2. | Sul | b disciplines as Physics, Chemistry, Geosciences, Life Sciences are some examples of: |
| | a. | Natural Sciences |
| | b. | Social Sciences |
| | c. | Humanities |
| | d. | General Science |
| 3. | Thi | is subject is the study of trade and business activities such as the exchange of goods and |
| | ser | vices from producer to final consumer. |
| | a. | Commerce |
| | b. | Economics |
| | | Geography |
| | | Business studies |
| 4. | | velopment 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. | Ma | thematics should not be taught |
| | a. | J |
| | b. | 3 |
| | c. | to think and reason |
| _ | | to analyse and articulate logically |
| 7. | | no said, "Mathematic is a way to settle in mind a habit of reasoning"? |
| | a) | Locke |
| | b) | Higgins |
| | c) | Robbins |
| | d) | Galileo |
| 8. | Ma | thematics develops the abilities of |

| a) | communication |
|-------|---|
| b) | creativity |
| c) | analysis |
| d) | numerical |
| 9. Wh | nich 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.Ch | oose the correct form of this property 'the addition and multiplication of two real |
| nur | mbers 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.Ma | thematics is the subject which provides an opportunity for the Training of the mind to |
| clo | se thinking, stirring up a sleeping and uninstructed spirit. Identify the value of teaching |
| ma | thematics. |
| a) | Cultural |
| b) | Disciplinary |
| c) | Intellectual |
| d) | Moral |
| | mathematics right is right and wrong is wrong for ever. Which value of teaching |
| ma | thematics do this statement corresponds to? |
| a) | Cultural |
| b) | Moral |
| c) | Intellectual |
| d) | International |
| 13.Th | e settled principles, tenents, working rules or general truths through which teaching |
| bec | comes interesting, easy and effectives are called |
| a) | pedagogy |
| b) | maxims |
| c) | correlation |
| d) | rules |
| 14.Wh | nile teaching counting to the students we should first take the help of concrete objects |
| like | e beads, stones etc and then proceed to digits and numbers. |
| a) | Known to unknown |

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.

b) Concrete to abstractc) General to particular

d) Whole to Part

a) Concentric

| b |) Topical |
|--------------|---|
| C | Spiral Spiral |
| d |) Linear |
| 16 | means the logical and systematic breaking up of the curriculum from the point |
| 0 | view of the pedague for the purpose of its effective transaction. |
| a | Unit plan |
| b | Year plan |
| C | Pedagogical analysis |
| d |) Academic discipline |
| 17.A | n outline of the important points of a lesson arranged in order in which they are to be |
| p: | esented to students by teacher is termed as |
| a | Year Plan |
| b | Unit Plan |
| C | Lesson Plan |
| d | Syllabus |
| 18. V | Thich 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.T | ne complementary written work is |
| a | oral work |
| b | drill work |
| c | review |
| d |) homework |
| 20.T | ne speed and accuracy of mathematics cannot be possible without |
| a | drill work |
| b |) written work |
| C | oral work |
| d | drawing work |
| | Thich of the following statement is true regarding purpose of review in mathematics: |
| | Stimulating interest in study |
| | To fix new learning |
| | To develop habit of precision |
| | To develop social virtue |
| | roblem solving method helps the pupils to: |
| | develop skill of measurement |
| | develop mental and cognitive abilities |
| | develop sense of counting |
| | appreciate the beauty of mathematics |
| | ne Patron of the mathematics club is |
| | Principal |
| | Mathematics Teacher |
| C | Students |

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

30. He was the first to give the world the value of π .

a. Ramanujanb. Euclidc. Pythagorasd. Aryabhatta