

**BACHELOR OF EDUCATION
THIRD SEMESTER
TEACHING OF MATHEMATICS
BED – 302A**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

(Objective)

Marks: 20

Choose the correct answer from the following:

$1 \times 20 = 20$

- The nature of mathematics is
 - Ornamental
 - Logical
 - Difficult
 - Not for common
- Who said that "Mathematics is a way to settle in the mind of children a habit of reasoning"
 - Hogben
 - Locke
 - Galileo
 - None of the above
- The method in which the generalization or rule is formulated by the child and the child remembers with ease is
 - Analytic
 - Inductive
 - Synthetic
 - Deductive
- A unit plan should
 - Be flexible
 - Consist of familiar topics
 - Provide a variety
 - All the above
- The more comprehensive plan is
 - Resource plan
 - Unit Plan
 - Lesson plan
 - All the above
- Which of the following subject is highly correlated to mathematics?
 - Chemistry
 - Botany
 - Physics
 - Zoology
- Existing patten of examination mainly measures the objective of which domain of behavior?
 - Affective
 - Cognitive
 - Psychomotor
 - None the above
- Achievement test are _____
 - Test of minimum performance
 - Test of maximum performance
 - Test of average performance
 - None of the above
- If the sum of two numbers is zero, one number, to another is called _____
 - Multiplicative inverse
 - Multiplicative identity
 - Additive inverse
 - Additive identity
- The decimal function of $1/9$ is

- a. 0.11
c. 0.111....
- b. 0.111
d. 0.101
11. The word diagnosis is originally related to
a. Social Science
c. Medical Science
- b. Economics theory
d. Statistic Theory
12. A student is very weak in mathematics, what is the reason behind?
a. Teacher
c. Parents
- b. Student itself
d. Peers
13. Which of the following is not true for the construction of achievement test?
a. Reliability
c. Validity
- b. Evaluation
d. Objectivity
14. First step in the process of problem solving is
a. Formulation of hypothesis
c. Drawing conclusion
- b. Selection and formulation of problem
d. Presentation of the problem
15. The method which involves placing together things that are apart and proceeding from known to unknown is
a. Analytic method
c. Deductive method
- b. Inductive method
d. Synthetic method
16. Which of the following statement is incorrect
a. Mathematics provide a definite way of thinking
c. Mathematics doesn't generate logical attitude
- b. Mathematics is an exact science
d. Mathematics is related to human life.
17. Written techniques involves the following test
a. Easy type test/ examination
c. Short answer type test
- b. Objective type test
d. All of the above
18. Which of the following is the limitation of unit plan?
a. It is psychologically sound approach for effective teaching learning process.
c. Overburdening of teacher with written work
- b. Flexible to deal with a wide range of learning situation
d. Provides opportunity to the teacher to do experiments
19. An irrational number can be stated as
a. Terminating and non-repeating decimal
c. Non-terminating and non-repeating decimal
- b. Non-terminating and repeating decimal
d. None of these
20. The square root of 1.44 is
a. 1.02
c. 1.21
- b. 1.20
d. 1.12

(Descriptive)

Time : 2 Hr. 30 Mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Describe the unique nature of mathematics in the light of its basic features. | 10 |
| 2. Explain to justify the need and importance of mathematics in school curriculum in the context of values the Mathematics. | 10 |
| 3. Give two distinctions between general objectives and specific objectives. By selecting a particular topic write three specific objectives in behavioral terms. | 10 |
| 4. What are the important features of analytic and synthetic method for teaching mathematics? Identify a topic which demands the use of analytic method for teaching mathematics. Give reasons of your answer. | 10 |
| 5. Write a lesson plan on any topic of mathematics indicating the class for which the lesson is planned. | 10 |
| 6. Do you consider problem solving is an important approach for teaching mathematics? Describe the necessary steps required in problem solving method. | 10 |
| 7. Prepare a learning activity to transact the topic "Angle some property" through inductive method? | 10 |
| 8. Discuss the various types of questions useful in quantitative evaluation. | 10 |

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