

**BACHELOR OF EDUCATION
THIRD SEMESTER [REPEAT]
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 × 20 = 20

- The cyclic method was introduced by:
a. Brahmagupta
b. Bhaskara
c. AryaBhata
d. None of the above
- According to Hogben, "Mathematics is the mirror of civilization" this statements corresponds to which value of mathematics?
a. Practical
b. Cultural
c. Disciplinary
d. None of the above
- Select the related number from the given alternatives
8:32::6:?
a. 31
b. 22
c. 18
d. 24
- The correlation of mathematics with other subjects helps in:
a. Making Mathematics more difficult
b. Isolating concepts
c. Showing interdependence of knowledge.
d. Reducing its importance
- Which of the following subjects , mathematics is highly correlated-
a. Zoology
b. Botany
c. Physics
d. None of these
- Which one is a twin prime?
a. 23, 29
b. 31, 37
c. 41, 43
d. 47, 53
- The application objective in Mathematics teaching refers to:
a. Learning formulas by heart
b. Using learned concepts in real situations
c. Drawing shapes
d. Writing definitions
- Achievement test are.....
a. Test of minimum performance
b. Test of maximum performance
c. Test of average performance
d. None of the above

9. The most possible guessing is -
- In matching type terms
 - In multiple choice terms
 - In true- false terms
 - None of these
10. Evaluation is closely related with:
- Content
 - Evaluation strategies
 - Objectives
 - Process of learning
11. Characteristic of a good text-book is that it is:
- Comprehensive
 - Formed by teacher
 - In simple and clear language
 - None of these
12. The most effective teaching aid -
- Non projected
 - Direct experience
 - Projected
 - None of these
13. The minute hand of a clock is 10 cm. How does it tip move in 20 minutes?
- $10\pi/3$ cm
 - $20\pi/3$ cm
 - $30\pi/3$ cm
 - $40\pi/3$ cm
14. When 60 is subtracted from 60% of a number, the result is 60. The number is
- 120
 - 150
 - 180
 - 200
15. A revolving line starts from OX and traces an angle of 520° . In which quadrant will it lie?
- First
 - Second
 - Third
 - Fourth
16. What is the third proportional of 16 and 24?
- 20
 - 18
 - 36
 - 40
17. What will be written in the form of p/q of 18.484848.....
- $462/25$
 - $610/33$
 - $200/11$
 - $609/33$
18. Mode is the value which occurs?
- least
 - most frequently
 - randomly
 - None
19. The difference between compound interest and simple interest of Rs. 1500 in two years at the rate of 10% interest is-
- Rs 15
 - Rs 20
 - Rs 25
 - Rs 30

20. If the sum of any three consecutive odd natural numbers is 147, then the middle number will be-

a. 47

b. 48

c. 49

d. 51

(Descriptive)

Time : 2 Hr. 30 Mins.

Marks : 50

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

1. Write a lesson plan on any topic of mathematics indicating the class for which the lesson is planned. 10
2. Describe the aims of teaching mathematics at secondary level. 10
3. Discuss the importance of any two values of teaching mathematics. 10
4. What do you mean by correlation of mathematics with other subjects? Explain with examples on correlation of mathematics with history. 10
5. Explain the important features of analytic and synthetic method for teaching mathematics. 10
Write the demerits in respect of both the methods.
6. Describe the major steps required in problem solving method for transacting a topic. 10
7. Discuss the various types of questions useful in quantitative evaluation. 10
8. What is the need of diagnostic test in mathematics? Explain with an example how will you design it to perform in the classroom along with the remedial measures? 10

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