

REV-01  
BED/23/30

BACHELOR OF EDUCATION  
THIRD SEMESTER  
TEACHING OF GENERAL SCIENCE  
BED – 301A

2025/11

**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

- Science is said to be dynamic because:
  - It changes with time and new discoveries
  - It is taught in all schools
  - It has no fixed principles
  - It depends only on observation
- Which of the following is not a characteristic of scientific knowledge?
  - Objectivity
  - Verifiability
  - Dogmatism
  - Predictability
- Science and Social Studies are related because:
  - Science influences technological and societal development
  - Both deal only with natural phenomena
  - Social Studies ignores technology
  - They are completely independent
- The aesthetic value of science lies in.....
  - Observing symmetry and beauty in natural phenomena
  - Memorizing formulas
  - Following rigid methods
  - Avoiding creativity
- The term "scientific attitude" primarily includes.....
  - Faith and obedience
  - Curiosity, open-mindedness, and critical thinking
  - Imitation and repetition
  - Memorization of facts
- Demonstration method suits which kind of learning outcome?
  - Cognitive
  - Affective
  - Psychomotor
  - None
- The term "learning outcome" in a science lesson plan means.....
  - Expected observable student performance
  - Teacher's expectations
  - Marks obtained
  - Activities done

8. The basic philosophy behind project method is.....
- |             |               |
|-------------|---------------|
| a. Idealism | b. Naturalism |
| c. Realism  | d. Pragmatism |
9. The learning process in CAM is based on.....
- |                        |                        |
|------------------------|------------------------|
| a. Inductive reasoning | b. Deductive reasoning |
| c. Memorization        | d. Discussion          |
10. Science differs from other disciplines mainly because it.....
- |   |   |
|---|---|
| a. Emphasizes subjective interpretation | b. Relies on empirical evidence and experimentation |
| c. Encourages blind belief              | d. Focuses on moral development                     |
11. Heuristic method was developed by.....
- |                     |                   |
|---------------------|-------------------|
| a. Richard Schumann | b. John Dewey     |
| c. Pestalozzi       | d. H.E. Armstrong |
12. The tentative nature of science means.....
- |   |  |
|---|--|
| a. Scientific laws change frequently without reason | b. Scientific knowledge is subject to revision |
| c. Science is uncertain and unreliable              | d. Science has no fixed base                   |
13. Presenting a puzzling situation is an important step in.....
- |                                 |                           |
|---------------------------------|---------------------------|
| a. Concept attainment model     | b. Heuristic model        |
| c. Information processing model | d. Inquiry training model |
14. Which of the following teacher behaviours reflect the spirit of ITM?
- |  |                                      |
|--|--------------------------------------|
| a. Providing direct answers                | b. Explaining step-by-step solutions |
| c. Asking probing and clarifying questions | d. Assigning rote problems           |
15. In a brainstorming session, the teacher's role is to.....
- |   |                              |
|---|------------------------------|
| a. Facilitate and encourage free thinking | b. Correct students' grammar |
| c. Deliver content                        | d. Grade responses instantly |
16. The term evaluation in education refers to.....
- |  |   |
|--|---|
| a. Assigning grades only                             | b. Measuring learning outcomes quantitatively |
| c. Judging the overall worth of learning experiences | d. Conducting final examinations              |
17. Which component of a lesson plan specifies "what learners should achieve"?
- |                        |                  |
|------------------------|------------------|
| a. Introduction        | b. Teaching aids |
| c. Learning objectives | d. Evaluation    |
18. The most appropriate evaluation for remedial teaching is.....
- |                          |                         |
|--------------------------|-------------------------|
| a. Diagnostic evaluation | b. Summative evaluation |
| c. Placement evaluation  | d. Grading evaluation   |

19. Demonstration method is based on the principle of.....
- a. Learning by doing
  - b. Learning by seeing
  - c. Learning by reading
  - d. Learning by listening
20. Formative evaluation is primarily used to.....
- a. Grade final performance
  - b. Eliminate weak students
  - c. Certify completion of course
  - d. Monitor progress during instruction

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**( Descriptive )**

Time : 2 Hr. 30 Mins.

Marks : 50

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

- |   |        |
|---|--------|
| 1. Develop a lesson plan on any Science topic of your choice for a 40 minutes class with Class 7 students.  | 10     |
| 2. Elaborate on the Nature and Scope of Science with suitable examples for each point.  | 5+5=10 |
| 3. Explain all the components of the Concept attainment model.  | 10     |
| 4. Elucidate the concept and benefits of Team teaching.   | 5+5=10 |
| 5. Describe the essential components of a Science laboratory and illustrate the basic layout of a Science lab.  | 7+3=10 |
| 6. Mention some guidelines for conducting a good demonstration in the class along with the advantages of using this method.                                 | 5+5=10 |
| 7. Thinking about your journey as a B.Ed student, how has your understanding of effective teaching aids evolved compared to when you were a school student? | 10     |
| 8. "Science is both a blessing and a curse." Discuss this statement with reference to its impact on daily life.   | 10     |

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