

Qn.Code: MEDC34(1)

**N.V.K.S.D. COLLEGE OF EDUCATION**

(AUTONOMOUS)

**M.Ed. Degree Third Semester Examination, January 2024**

**(For the candidates admitted during the academic year 2022-2023)**

**Specialisation based on Discipline course: ADVANCED  
METHODOLOGY IN SCIENCE EDUCATION**

**Course code: MED3SD003**

**Time: 3 Hours**

**Maximum Marks: 70**

**SECTION A (10 x 1 = 10 marks)**

**Answer ALL the questions by selecting the appropriate answers.**

1. The period commonly known as the 'Scientific Revolution' is
  - a) 10<sup>th</sup> Century
  - b) 16<sup>th</sup> and 17<sup>th</sup> Centuries
  - c) 19<sup>th</sup> Century
  - d) 20<sup>th</sup> Century
2. One of the primary social functions of science is
  - a) Entertainment
  - b) Preserving cultural traditions
  - c) Promoting political ideologies
  - d) Providing objective knowledge about the natural world
3. According to National Education Commission, the primary goal of science education in fostering scientific literacy is
  - a) Memorization of scientific facts
  - b) Restricting access to scientific knowledge
  - c) Encouraging blind acceptance of scientific principles
  - d) Fostering critical thinking and understanding of scientific concepts
4. Simpson's Taxonomy is primarily focused on.
  - a) Cognitive domain
  - b) Affective domain
  - c) Psychomotor domain
  - d) Social domain
5. The correlation pattern that involves connecting various subjects to explore common themes or concepts is
  - a) Subject-centered
  - b) Teacher-initiated
  - c) Learner-initiated
  - d) Integrated
6. The primary purpose of a textbook in education is
  - a) To replace teacher instruction
  - b) To serve as the sole source of information
  - c) To limit student exploration
  - d) To support and enhance classroom learning

7. The primary objective of research in science education is
  - a) To increase textbook sales
  - b) To improve teaching practices and student learning
  - c) To promote a specific political agenda
  - d) To discourage inquiry-based learning
8. The Latin word which is understood as the origin of the word 'plagiarism' is
  - a) Plagiarius b) Plagiurius c) Plugarius d) Plagiarize
9. User Generated Content (UGC) cannot be generally shared through
  - a) Text b) Images c) Video d) Advertisement
10. The tweeter was first invented in
  - a) March 2006 b) March 2007 c) March 2008 d) March 2009

**SECTION B (5 x 3 = 15 marks)**

**Answer all the FIVE questions in about 100 words each.**

11. Write a brief note on scientific literacy.
12. Enumerate the aims of science education with reference to the Indian Education Commission.
13. How do textbooks help a Science teacher?
14. What is plagiarism? Suggest any plagiarism software in research.
15. How are values influencing science education?

**SECTION C (5 x 5 = 25 marks)**

**Answer any FIVE questions in about 200 words each.**

16. Discuss the implication of positivism and constructivism in science education.
17. Describe Bloom's taxonomy on cognitive domain.
18. Mention the principles of curriculum evaluation.
19. Discuss the research methods in science education.
20. How could you ensure internet safety in the classrooms?
21. Illustrate the process skills of science.
22. Elucidate the role and function of National Curriculum Framework 2005.

**SECTION D (2 x 10 = 20 marks)**

**Answer BOTH the questions in about 500 words each.**

23) a) Explain various implications of science education researches on classroom practices.

Or

b) Elaborate on social networking sites in science education

24) a) How does ICT helps in science education?

Or

b) Discuss the curriculum development approaches

