



Murugan

Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

**Bachelor of Education / B. Ed. Special Education (VI/Hi) Degree Examination - May 2022
IV Semester**

Class: II B. Ed. / II B.Ed. Special Education (VI / HI)

Time : 3 Hours
Max. Marks : 100

18BEDM14 / 18BDSM14 School Subject I: Professionalising Mathematics Education

Course Outcomes:

- CO1: Describe the steps in content analysis
- CO2: Critically analyse the quality of mathematics textbook
- CO3: Develop e-content lesson for any topic
- CO4: Explain the types of research
- CO5: Develop research attitude among students
- CO6: Organize co-curricular activities in mathematics

**Part A
Choose the Correct Answer**

10 x 1 = 10

1. Quantitative content analysis is an approach that aims to CO1 K2
 - a. objectively and systematically measure the content of a text
 - b. reach an interpretive understanding of social action
 - c. engage in a critical dialogue about ethical issues in research
 - d. provide a feminist alternative to 'male-stream' quantitative methods
2. Which of the following statements is true of content analysis? CO1 K4
 - a. It generates rich written descriptions of archival records
 - b. It may be applied to both verbal and nonverbal materials
 - c. Its most common units of analysis are individual people
 - d. It seldom involves quantification
3. The Internal criterion for textbook is CO2 K2
 - a. content accuracy
 - b. binding
 - c. price
 - d. good quality pages
4. The use of text book in a class is CO2 K3
 - a. to delimit what is to be taught
 - b. to explain ideas and concepts
 - c. set new standards
 - d. to achieve learning objectives
5. E- Content Software CO3 K3
 - a. Articulate Story Line
 - b. Adobe page maker
 - c. Reduces the resolution
 - d. None of the above
6. The first phase of E-content development is CO3 K1
 - a. design
 - b. analysis
 - c. development
 - d. implementation
7. A tentative statement about something. CO4 K2
 - a. Hypothesis
 - b. Variable
 - c. Concept
 - d. Data
8. The effectiveness of an experimental variable is examined by comparing it with another variable, known as CO4 K2
 - a. confounding variable
 - b. ordinal variable
 - c. controlled variable
 - d. categorical variable
9. The major purpose of co-curricular activities is to CO6 K3
 - a. help students achieve a well-adjusted personality
 - b. provide relief from the usual classroom routine
 - c. allow students an opportunity to develop in to good citizens
 - d. permit students to have a choice of educational program
10. _____ is not a part of Co-Curricular activity in schools. CO6-K2
 - a. Debate
 - b. Dance and music competitions
 - c. Class Lecture
 - d. Drama

Part B**5 x 6 = 30****Answer ALL questions****Each answer should not exceed 400 words or two pages**

- 11.a. Spell out the meaning and steps involved in content analysis. CO1 K4
(or)
- 11.b. Explain the importance of content analysis. CO1 K4
- 12.a. Give the need and importance of textbook CO2 K4
(or)
- 12.b. Suggest some of the uses of textbook outside the classroom. CO2 K3
- 13.a. Discuss the meaning and importance of e-content development. CO3 K4
(or)
- 13.b. Write a short note on e-content module preparation. CO3 K4
- 14.a. What is hypothesis? Explain the types of hypothesis. CO4 K2
(or)
- 14.b. List out the meaning and characteristics of a research. CO4 K2
- 15.a. Explain about maths club and its functions. CO5 K2
(or)
- 15.b. Construct any three puzzles and riddles. CO5 K6

Part C**5 x 12 = 60****Answer ALL questions****Each answer should not exceed 800 words or four pages**

- 16.a. Analyse Tamil Nadu State Board IX standard mathematics content. CO1 K4
(or)
- 16.b. Critically analyse Tamil Nadu State Board VIII standard mathematics content. CO1 K4
- 17.a. Analyse VI standard mathematics textbook using Vogel's spot checklist. CO2 K4
(or)
- 17.b. Explain the criteria for a good textbook. CO2 K4
- 18.a. Elaborate the phases involved in the e-content development. CO3 K4
(or)
- 18.b. Prepare an e-content lesson for a topic of your own choice. CO3 K6
- 19.a. Describe the major types of educational research. CO4 K2
(or)
- 19.b. Define Variables and explain its various types. CO4 K2
- 20.a. Explain the steps in organizing Co-Curricular activities in mathematics. CO6 K4
(or)
- 20.b. Explain the need and importance of organising field trips and excursions with its merits and demerits. CO6 K4
