



Memorandum

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/II) Degree Examination – May 2024
IV Semester

Class : II B.Ed.
School Subject : Mathematics and English

Time : 3 Hours
Max. Marks : 100

Class : II B.Ed. Special Education
Specialization : Visual Impairment and Mathematics / Hearing Impairment and Mathematics

22BEDM14 / 22BDSM14 School Subject I: Professionalising Mathematics Education

Course Outcomes:

- CO1: Acquire skills in analyzing the content
- CO2: Critically analyze the quality of textbook
- CO3: Develop knowledge about e-content preparation
- CO4: Develop research attitude among students
- CO5: Organize co-curricular activities in mathematics

Part A
Choose the Correct Answer

10 x 1 = 10

1. Content analysis has been an examination of
a. Printed Text b. Images c. Videos d. All the above **CO1 K2**
2. 'Cryptology' concept is given in _____ standard.
a. VII b. VIII c. IX d. X **CO1 K2**
3. According to Vogel's spot checklist of textbooks, the statement 'The photographic reproductions are large and clear' comes under the _____ section.
a. appearance b. illustration c. readability d. organization **CO2 K3**
4. A good mathematics textbook at the primary level should have
a. everyday life-related mathematical concepts b. simple exercises for practice
c. colourful illustrations d. lot of worked out examples **CO2 K3**
5. _____ is a form of E-content.
a. Instagram Post b. PPT c. YouTube Video d. All the above **CO3 K1**
6. _____ is not an advantage of E-content usage.
a. Cost effectiveness b. No need of technical knowledge
c. User friendly d. No worry about distance **CO3 K2**
7. Research carried out to solve the immediate problem is called
a. Applied research b. Action research
c. Institutional research d. Educational research **CO4 K2**
8. A researcher studies the effect of Multimedia Package on Learning Mathematics among high school students. In this study, 'Multimedia Package' is functioning as _____ variable.
a. Dependent b. Extraneous c. Independent d. Moderator **CO4 K3**
9. Co-curricular activities has to be organised in schools for
a. the overall development of students b. creating interest in subjects
c. maintaining the standard of the institution d. giving relaxation for students **CO5 K2**
10. _____ is not the purpose of Mathematics Club.
a. Develop mathematical expression among students
b. Develop interest among students in the subject
c. Promote gifted children's learning only
d. Organise programmes by subject experts **CO5 K2**

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Point out the steps in conducting content analysis. **CO1 K4**
(or)
- 11.b. Outline the need and types of content analysis. **CO1 K4**
- 12.a. Express the role of textbooks in the teaching learning process of mathematics. **CO2 K2**
(or)
- 12.b. State the importance of textbook in mathematics. **CO2 K5**
- 13.a. Give the meaning and importance in e-content development. **CO3 K2**
(or)
- 13.b. Justify the need for e-content development in teaching of mathematics. **CO3 K6**
- 14.a. Describe the characteristics of research. **CO4 K2**
(or)
- 14.b. Bring out the relationship between independent and dependent variables. **CO4 K3**
- 15.a. Justify the role of co-curricular activities in students life. **CO5 K6**
(or)
- 15.b. List the challenges of co-curricular activities. **CO5 K2**

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Appraise the content of VIII mathematics textbook of Tamilnadu State Board. **CO1 K5**
(or)
- 16.b. Generalize content analysis with its advantages and disadvantages. **CO1 K6**
- 17.a. Elaborate the use of textbook outside the classroom. **CO2 K3**
(or)
- 17.b. Summarize the qualities of a good textbook in mathematics. **CO2 K5**
- 18.a. Compile the phases of e-content development. **CO3 K6**
(or)
- 18.b. Prepare a Script for e-content on any topic in mathematics. **CO3 K4**
- 19.a. Critically analyse the difference between the various types of hypothesis. **CO4 K5**
(or)
- 19.b. Discuss the various types of research. **CO4 K6**
- 20.a. Prepare the steps involved in conducting mathematics club activities. **CO5 K4**
(or)
- 20.b. Field trips are necessary in the life of every school student – Justify. **CO5 K6**
