



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category A by MHRD, Estd. u/s 3 of UGC Act 1956)
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 - June 2021
IV semester

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

Time : 3 Hours
Max. Mark : 100

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

Course Outcomes:

- CO1: Identify the skills in analyzing the content
CO2: Critically analyze the quality of Textbook
CO3: Develop knowledge about e-content preparation
CO4: Develop research attitude among student
CO5: Organize co-curricular activities in Mathematics

Part A

10 X 1=10

Choose the Correct Answer

- | | | | | | |
|--|--------------------|----------------------------|------------------|-----|----|
| 1. The content analysis is | | | | CO1 | K2 |
| a. An objective | b. a research tool | c. Optional | d. Useless | | |
| 2. Content analysis allows researchers to study | | | | CO1 | K2 |
| a. surveys | b. experiments | c. available recorded data | d. censuses data | | |
| 3. 'Progression' means | | | | CO2 | K1 |
| a. Job | b. Service | c. Duty | d. Work | | |
| 4. The most useful textbook of mathematics | | | | CO2 | K2 |
| a. There are many solved examples | | | | | |
| b. There are sufficient illustrations and more questions for exercise | | | | | |
| c. All the exercise questions are solved | | | | | |
| d. All the above | | | | | |
| 5. A person can enjoy teaching as a profession when he | | | | CO3 | K4 |
| a. has control over students | | | | | |
| b. Commands respect from students | | | | | |
| c. More qualified than his colleagues | | | | | |
| d. very close to higher authorities | | | | | |
| 6. The e-content generation for undergraduate courses has been assigned by the ministry of | | | | CO3 | K1 |
| human resources development to | | | | | |
| a. INFLIBNET | | | | | |
| b. Consortium for Educational Communication | | | | | |
| c. National Knowledge commission | | | | | |
| d. Indra Gandhi National Open university | | | | | |
| 7. Research is | | | | CO4 | K1 |
| a. Moving from a broad area to a narrow and focused area | | | | | |
| b. data gathering | | | | | |
| c. a systematic process of finding the truth | | | | | |
| d. data gathering, processing and analysis | | | | | |
| 8. The result of applied research is | | | | CO4 | K4 |
| a. Discovery | | b. Invention | | | |
| c. Problem solving | | d. Framing new policies | | | |
| 9. Why do we have recreational / leisure activities? | | | | CO5 | K2 |
| a. Because they help your community | | | | | |
| b. Because they are strictly for raising money | | | | | |
| c. Because they are just for fun | | | | | |
| d. They are pointless | | | | | |

10. This offer an excellent bridge between the work of the school and the work of the work outside
 a. Camping b. Field trip c. Outreach program d. None CO5 K2

PART B

5 X 6=30

Answer all questions

Each answer should not exceed 400 words or two pages

- 11.a. Describe the advantage and disadvantage of content analysis. CO1 K3
 (or)
 11.b. Explain the need for 'content analysis'? CO1 K2
- 12.a. List down the criteria for a good text book. CO2 K1
 (or)
 12.b. How do you analyse a text book? CO2 K2
- 13.a. Define 'e-content development'. Write down the characteristics of e-content development. CO3 K2
 (or)
 13.b. Write down the steps for module preparation. CO3 K2
- 14.a. What do you mean by research? Explain the characteristics of research. CO4 K2
 (or)
 14.b. List down the research variables with examples. CO4 K2
- 15.a. Define co-curricular activities. Stress the important and benefits of co-curricular activities. CO6 K3
 (or)
 15.b. Write down the recreational activities with examples. CO6 K2

PART C

5 X 12=60

Answer all questions

Each answer should not exceed 800 words or two pages

- 16.a Define content analysis. Explain in detail steps in content analysis. CO1 K2
 (or)
 16.b. Illuminate the analysis of mathematics content of VI to XII TNSB text book. CO1 K4
- 17.a. Explain about the needs and importance of the text books. CO2 K2
 (or)
 17. b. Enumerate the critically analyses VI- XII standard text books. CO2 K4
- 18.a. Discuss the phases involved in the e-content development. CO3 K2
 (or)
 18.b. Write down the script writing for e-content. CO3 K2
- 19.a. Explain the types of research with examples. CO4 K2
 (or)
 19.b. Illuminate the importance of framing hypothesis in educational research. CO4 K2
- 20.a. Role of co-curricular activities in a student's life. CO6 K3
 (or)
 20.b. Explain the field trip, excursions, fairs and clubs. CO6 K3
