



## 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

### B. Ed. Special Education (VI/II) Degree Examination – June 2021 II Semester

Class: **B.Ed. Special Education (VI)**

Time : 3 Hours

Max. Marks : 100

#### 18BDSSV4 Specialization: Technology and Education of Children with Visual Impairment

Course Outcomes:

CO1: Relate the concept and nature of educational technology and ICT to the education of children with visual impairment

CO2: Acquire knowledge of the concept and nature of adaptive technology and explain underlying principles and techniques

CO3: Get familiar with technologies for print-access for children with visual impairment

CO4: Describe and use different technologies for teaching low vision children as also various school subjects

CO5: Demonstrate understanding of computer-based teaching-learning processes

#### Part A

10 x 1 = 10

#### Choose the Correct Answer

- The primary goal of Technology Education at school level is to develop CO1 K1
  - Students' behaviour
  - Technological literacy
  - Teaching learning process
  - Overall performance
- Which of the following option is not included in the accessibility wizard of Windows system? CO1K2
  - Screen resolution
  - Icon size & scroll bar size
  - Color scheme
  - All the above
- The unique feature of Smart Braille is, it provides CO1K1
  - Large print
  - Tactile clues
  - Automatic audio feed back
  - Zoom text
- Presentation in different forms like, audio, video, text, graphics and animation is known as CO2K1
  - Audio conferencing
  - Video conferencing
  - Web learning
  - Multimedia
- The assistive device that scans the text and converts print into speech. CO2K2
  - Apple Voice Over
  - Kurzweil
  - BRLTTY
  - Emacspeak
- Optical character recognition (OCR) is a technology used in CO2 K1
  - Stand-alone reading machines
  - JAWS
  - NVDA
  - None of the above
- ASSISTECH which develops affordable technological solutions for the visually impaired is the unit of CO3 K4
  - IIT Madras
  - IIT Ahmedabad
  - IIT Delhi
  - IIT Mumbai
- The two languages used in talking scientific graphing calculator. CO3 K4
  - English & French
  - English & Hindi
  - English & Latin
  - English & Spanish
- It is a social news website where stories are socially curated. CO3 K2
  - Twitter
  - Linkedin
  - Reddit
  - Watsup
- It is the device that helps visually impaired to read easily and independently. CO4 K1
  - Braille notetakers
  - Stand alone
  - Thermoform
  - Optocon

**Part B**                      5 x 6 = 30

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. Brief the scope of Educational Technology CO1 K1  
(or)
- 11.b. Distinguish the features of Educational Technology and Technology in Education. CO1 K2
- 12.a. Write a short note on the concept of Adaptive Technologies. CO2 K1  
(or)
- 12.b. Discuss any six roles of IIT's and the scientific community. CO2 K2
- 13.a. Enumerate the importance of open source software with examples. CO3 K3  
(or)
- 13.b. Explain briefly about Braille Note takers and Stand-alone Reading Machines. CO3 K2
- 14.a. Examine the need for using Tactile/Embossed Maps while teaching the visually impaired children. CO4 K3  
(or)
- 14.b. Evaluate any three assistive devices for the visually impaired that useful in learning science. CO4 K5
- 15.a. Enlist the steps in creating Blogs. CO5 K1  
(or)
- 15.b. Summarize any six advantages of Social Media with examples. CO5 K5

**Part C**

**5 x 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 16.a. Discuss the goals of technology for the education of children with visual impairment. CO1 K2  
(or)
- 16.b. Enumerate the significance of ICT in teaching-learning of the visually impaired. CO1 K1
- 17.a. Justify the basic considerations to be followed in developing adaptive technologies. CO2 K5  
(or)
- 17.b. Discuss the advantages and disadvantages of Universal Design. CO2 K2
- 18.a. Appraise the applications of any six Braille embossers. CO3 K4  
(or)
- 18.b. Examine the role of On-Line libraries and Bookshare in the educational rehabilitation of children with Visual impairment. CO3 K3
- 19.a. Explain the assistive devices that are helpful to teach mathematics to children with visual impairment. CO4 K2  
(or)
- 19.b. Elucidate the application of Low vision devices with suitable examples. CO4 K2
- 20.a. Criticize the use of ICT in Distance Learning. CO5 K5  
(or)
- 20.b. Review the adaptations for children with visual impairment that could be made in designing e-classrooms. CO5 K2

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