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 Degree Examination - November 2019
III Semester

Class: II B.Ed./ II B. Ed. (Spl. Edn.)

Time: 3 Hours
Max.Marks: 100

18BEDP13/ 18BDSP13 School Subject I: Curriculum and Resources in Physical Science Education

Course Outcomes:
CO1: identify the components of different micro teaching skills
CO2: operate the different educational technology gadgets
CO3: design and arrange a science laboratory and prepare the registers required for a lab
CO4: demonstrate the ways of administering first aid
CO5: catalogue the periodicals and books in the library
CO6: Construct and validate diagnostic test and achievement test

Part A **10 X 1 = 10**
Circle the Correct Answer

1. CHEM study was developed in
   a. America b. Russia CO1 K2
   c. France d. India

2. The curriculum approach of continuous step by step development of a particular area is
   a. Psychological b. Concentric CO1 K2
   c. Historical d. Nature study

3. Which one of the following comes under software aid?
   a. Film strip b. Film projector CO2 K4
   c. Display board d. OHP

4. The lens used in OHP is
   a. Concave b. Convex CO2 K2
   c. Double concave d. Double convex

5. Phosphorous must be kept in
   a. Water b. Kerosene CO3 K1
   c. Alcohol d. Air tight container

6. Which one of the following can be considered as an improvised apparatus?
   a. Digital camera b. Spectrometer CO3 K3
   c. Pinhole camera d. Electron microscope

7. Which one of the following is a science magazine in Tamil?
   a. Kalaikathir b. School science CO4 K2
   c. Vingyan shikshe d. Junior scientist

8. The magazine 'Science Today' is a

a. Monthly b. Quarterly CO4 K2
c. Half yearly d. Annual

9. When a test measures what it is supposed or purported to measure then it is set to posses

a. Validity b. Reliability CO5 K5
c. Objectivity d. Practicability

10. Language proficiency is developed through

a. Essay type test b. Objective type CO5 K3
c. Yes or No type d. Matching

Part B **5 X 6 = 30**

Answer the following questions

Answer should not exceed 400 words or two pages

11. a. Explain in detail the concentric approach of curriculum development. CO1 K2

(or)

11. b. Explain the demands of the present situation in curriculum development. CO1 K3

12. a. Differentiate the hardware and software approach in educational technology. CO2 K4

(or)

12. b. Explain the role of computer in teaching science. CO2 K5

13. a. Mention any two registers that are maintained in the science laboratory and explain them. CO3 K3

(or)

13. b. Write down the advantages of improvised materials in teaching science. CO3 K2

14. a. Write short notes on the following: CO4 K5
i. Do it yourself book and
ii. Work book

(or)

14. b. How will you use biography of scientists to develop interest in science among your students? CO4 K1

15. a. What is blue print? Mention its dimensions. CO5 K3

(or)

15. b. Write short notes on continuous and comprehensive evaluation. CO5 K4

Part C **5 X 12 = 60**

Answer the following questions

Answer should not exceed 800 words or four pages

16. a. Give in detail the principles of curriculum development. CO1 K3

(or)

16. b. Explain the factors that affect curriculum development. CO1 K2

17. a. What do you mean by audio visual aids? Write in detail its importance in teaching science. CO2 K4

(or)

17. b. What are projected aids? Explain any two projected aids in detail. CO2 K3

18. a. Describe with a suitable diagram, the structure and design of physics or chemistry laboratory. CO3 K5

(or)

18. b. Explain the safety measures that can be taken in a science laboratory. CO3 K4

19. a. Write short notes on the following: CO4 K2
    i) Text book
    ii) Reference book
    iii) Teachers hand book

(or)

19. b. Explain the importance of science library in teaching physical science. CO4 K3

20. a. What is meant by achievement test? How will you construct an achievement test? What are its uses? CO5 K4

(or)

20. b. Explain the diagnostic test and remedial teaching and also mention its significance in science teaching. CO5 K3

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