



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 – July 2020
IV Semester

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

Time : 2 Hours

Max. Marks : 50

**18BEDP14 / 18BDSP14 School Subject I: Professionalizing Physical
Science Education**

Course Outcomes:

CO1: Analyse the content and pedagogy of text books

CO2: Analyse and evaluate text books

CO3: Design and develop e - content material

CO4: Conduct an action research

CO5: Organise science exhibitions and science fairs

Part A

10 x 1 = 10

Choose the Correct Answer

1. Which one of the following is cocurricular activity? CO5 K2
a. Dance and drama
b. Games
c. Music
d. Seminar
2. Mirage is an example of CO1 K2
a. refraction
b. total Internal reflection
c. diffraction
d. dispersion
3. The National Talent Search Examination is conducted by CO1 K1
a. NCTE
b. NIEPA
c. CBSE
d. NCERT
4. The chemical name of laughing gas is CO1 K1
a. Nitric oxide
b. Nitrogen dioxide
c. Nitrogen pentoxide
d. Nitrous oxide
5. Which one of the following is an inert gas? CO1 K1
a. Argon
b. Chlorine
c. Hydrogen
d. Nitrogen
6. Dry ice is called CO1 K2
a. super cooled ice
b. solid carbondioxide
c. solid oxygen
d. solid Nitrogen
7. The product of mass and acceleration ($F=M*A$) is called CO1 K1
a. Boyle's law
b. Newton's first law
c. Newton's second law
d. Newton's third law
8. Science club encourages CO5 K2
a. learning by doing
b. lecture method
c. historical method
d. demonstration method
9. One of the e-learning categories is CO3 K2
a. learning in a particular place
b. online support
c. classroom learning
d. virtual classroom
10. In a virtual classroom how do you contact your teacher? CO3 K2
a. By e-mail
b. By post
c. Directly
d. Through some body

Part B**3X6=18**

Answer any three of the following
Each answer should not exceed 400 words or two pages

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| 11. What do you mean by content analysis? Give examples. | C01 K2 |
| 12. Discuss the importance of CBSE text book. | C02 K2 |
| 13. What are the criteria for selection of text books? | C02 K2 |
| 14. Discuss Hunter's score card in text book. | C02 K2 |
| 15. Discuss the phases involved in e-content development. | C03 K2 |
| 16. Prepare an e- content module on a topic in VIII std physical science . | C03 K3 |
| 17. Define research. Discuss the characteristics of research. | C04 K2 |
| 18. What is pure research? How is it different from applied research? | C04 K2 |
| 19. Discuss the modes of popularization and propagation of science. | C05 K3 |
| 20. Discuss the steps in Science exhibition. | C05 K2 |

Part C**2X11=22**

Answer any two of the following
Each answer should not exceed 800 words or four pages

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| 21. Discuss the importance of organization of science club. | C05 K2 |
| 22. Discuss the values of field trips. Explain the steps involved in it. | C05 K2 |
| 23. What do you mean by variables? Discuss the different variables with examples. | C04 K2 |
| 24. How will you conduct Action Research in science? | C04 K3 |
| 25. Discuss the meaning and importance of e-content in physical science. | C03 K2 |
| 26. Discuss the steps in script writing for e-content material in science. | C03 K3 |
| 27. Discuss the importance of science text book. How will you select science text book? | C02 K2 |
| 28. Discuss the uses of science text book in and outside the classroom. | C02 K2 |
| 29. Discuss the content analysis of chemistry content of IX std Tamilnadu State syllabus. | C01 K3 |
| 30. Discuss the meaning and steps of Pedagogic analysis. | C01 K2 |
