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A – 2920

Reg. No. :

Name :

**Second Semester B.Ed. Degree Examination, May 2016
(2015 Admn. onwards)**

**EDU 09.08 : CURRICULUM AND RESOURCES IN DIGITAL ERA :
Physical Science Education**

Time : 2 Hours

Max. Marks : 50

PART – A

Choose the correct answer. Answer **all** questions. **Each** question carries **one** mark : **(5×1=5 Marks)**

1. Scholarship to Science Talent Search Program are awarded on the bases of marks obtained in
 - i) Science aptitude test
 - ii) Essay on a given theme
 - iii) Project report
 - iv) Intelligence test

a) i) and ii)	b) i), ii), iii)
c) i), iii), iv)	d) i), ii), iv)
2. Formal learning means the type of learning that is
 - a) Intentional and organized
 - b) Unstructured
 - c) Involuntary and Loosely organized
 - d) Flexible
3. ANERT stands for
 - a) Association for Non-conventional Energy and Renewable Techniques
 - b) Association for New Energy Revival Techniques
 - c) Agency for Non-conventional Energy and Rural Technology
 - d) Agency for Non-conventional Energy and Renewable Technology

P.T.O.



4. Scheme planned by Kerala State Council for Science and Technology for Strengthening Science education in the state is
- a) Science Olympiad b) KVPY
c) Shastra Poshini Scheme d) People's Science Movement
5. Which of the following relates to Web 2.0 ?
- i) allows greater collaboration among internet users
ii) static content
iii) responsive to user input
iv) decreases incidence of spamming
- a) i), ii) b) i), iii) c) ii), iii) d) iii), iv)

PART - B

Answer **all** questions. Answer in a **word** or **sentence**. **Each** question carries **one** mark : **(5×1=5 Marks)**

6. Identify any two thrust areas of research in Physical science.
7. Write two maxims of teaching on which the concentric approach to curriculum organisation is based on.
8. Define learning management system.
9. Write one important feature of Banking Concept of education.
10. Write two situations where science can be correlated with music.

PART - C

Answer **all** questions. Answers to be brief and to the point. **Each** question carries **two** marks : **(5×2=10 Marks)**

11. What do you mean by Hidden curriculum ?
12. How can you develop the different process skills in students at higher secondary level ?
13. What are the essential features of Edmodo ?
14. Explain any two activities connected with the teaching of physical science which promotes the use of library.
15. What steps will you take to ensure safety in a science lab ?



PART - D

Answer **any four** questions. **Each** question carries **five** marks : (4×5=20 Marks)

16. As a science teacher how will you encourage active learning in science.
17. Explain any two E-resources that you will use in a physical science class.
18. Explain the importance of Blog posting in science teaching and learning.
19. Discuss the relevance of informal science learning context in a science classroom.
20. What are the main features of Problem Based learning ?
21. What are the advantages of nature study in ensuring an effective group learning atmosphere in a science class ?

PART - E

Answer **any one** question. The question carries **ten** marks : (1×10=10)

22. What are the major principles of curriculum construction. Critically analyse the present physical science curriculum of Std. VIII used in Kerala on the basis of these principles. What are your suggestions for its improvement ?
23. How can a science teacher as a researcher make use of digital resources in promoting a research culture in the students ?