

Course V

Sample questions for Course V

Very short/ objective type questions

(for 2 marks)

1. Write the meaning of discipline.
2. What is interdisciplinarity?
3. What is transdisciplinarity.
4. Write two characteristics of discipline.
5. Mention two important objectives of science education.
6. What is ethical consideration in science?
7. Mention any two assumptions of science.
8. What is meant by curriculum?
9. Write the four elements of language.
10. What is phonology?
11. What is the aim of teaching second language?
12. Give one instance to show that language is "gendered".
13. Write two important characteristics of the discipline mathematics.
14. Write four names of Indian mathematicians.
15. What is Rhind Papyrus?
16. Who was Muhammad Al-Khawaja?
17. Write any two importance of studying social science in school.
18. What is quantitative approach to social science?
19. Write any two objectives of teaching social science in secondary stage.
20. What is the nature of social science?
21. Define discipline.
22. What is interdependence amongst various schools?
23. What is integration with different subjects?
24. What is transdiscipline?
25. What is law or theory?
26. What is scientific truth?
27. What are the factors of scientific spirit?
28. Mention the nature of experimental method?
29. State two areas of language development during childhood.
30. Mention any two functions of language in learning.
31. Write two purposes of including languages in the syllabus of Secondary Education.
32. State two recommendations of Kothari Commission as regards language education as secondary level.
33. What is mathematical model?
34. Write five names of Indian mathematician.
35. What is practical value of Mathematics?

36. Mention two ancient books of Mathematics.
37. Define Social Science.
38. State two differences between social science and social studies.
39. What are the steps of scientific method?
40. Write the main subjects of social science.
41. What is called Science?
42. Write any two difference between Science and Un-science?
43. Define curriculum.
44. What do you mean by scientific law? Give example.
45. Why does nineteenth century called the golden era of modern scientific studies?
46. Write the difference between syllabus and curriculum.
47. What is observation?
48. What is paradigm?
49. Write any two characteristics of an ideal science book?
50. What is scientific method?
51. Write the definition of social science.
52. Name the first book and the author of social science.
53. What is political science?
54. What is anthropology? Write the main branches of it.
55. What is sociology? Who is the founder of this subject?
56. Write the definition of discipline.
57. What is the regular structure of classification of discipline?
58. What is interdisciplinary?
59. What do you mean by multidisciplinary?
60. What is education?
61. What is mathematical model?
62. What is the practical value of mathematics?
63. Write the name of some Indian mathematicians.
64. What is language?
65. What are the components of language?
66. What is the role of language in communication of information?
67. What are the different theories of language development?
68. What are the recommendations of Radhakrishnan Commission on language education?
69. What are the objectives of language learning?
70. What do Aristotle mean by mathematics?
71. What is the difference between syllabus and curriculum?
72. Write the stages of curriculum construction.
73. What do you mean by curriculum evaluation?
74. What is content analysis?
75. What do you mean by knowledge construction?
76. What are the domains of learning?
77. What is transfer of learning?
78. What do you mean by discipline?
79. Give two reasons behind the emergence of new discipline.
80. Define observation method.

81. What is hypothesis?
82. What is the difference between hypothesis and assumption?
83. What is telegraphic speech?
84. Write the stages of language development.
85. What is phoneme?
86. What is morpheme?
87. What is pragmatics in language?
88. Why is it said that mathematics is the gateway of learning science?
89. How does mathematics contribute to learning social science?
90. Write two importance of studying social science.

Group B.

Short type questions

(for 5 marks)

1. Mention any five characteristics of discipline.
2. Explain briefly the history of development of disciplines.
3. Elucidate the concept of nature of science.
4. Write a note on ethical consideration of science.
5. Explain the 3-language formula.
6. What are the aims of teaching languages in Indian schools?
7. Write short note on the contribution of Indian mathematicians.
8. Write short note mathematics in day-to-day life.
9. Mention any five importance of social science.
10. Explain the philosophy of social science.
11. Education as a Discipline – comments your view about the concept.
12. Discuss the causes of evolution about contents of School Education.
13. Explain the nature of science.
14. What is paradigm shift? Write shortly the principles of paradigm shift.
15. Discuss the 3-language formula mentioning the problems about it.
16. Explain the concept of 'language as a discipline'. How is it different from the concept of 'language as a subject'?
17. Briefly discuss about the nature of Mathematics.
18. Write in short about the place of Mathematics in School Curriculum.
19. State the fundamental difference between Natural and Social Science.
20. What are the functions of social science research?
21. Explain the nature of science?
22. "Nineteenth century is the golden era of modern science studies"—Justify your answer.
23. Write in brief the history of science education in medieval period?

24. Write a short note on science education in India.
25. What is paradigm shift? Write in brief the principles of paradigm shift.
26. Briefly discuss the socio-cultural perspective of science education.
27. Discuss the nature and characteristics of experimental method of science education.
28. Discuss the importance of science in school education.
29. How can we measure the validity of science in school curriculum?
30. Briefly discuss about the origin of social science.
31. Mention the role of positivism in social science.
32. Mention the importance of Marxism in social science studies.
33. Briefly discuss the characteristics and nature of discipline.
34. Write short description about regular structure of classification of discipline.
35. Briefly discuss about the merging of various discipline into education.
36. 'Education is a process'—comments your view on the concept.
37. Give a short description about the various branches of mathematics.
38. Write in short about the place of mathematics in school curriculum.
39. Mention the stages of language development.
40. Write the language development theory of Skinner and Noam Chomsky.
41. Discuss the place of language in education and role of language in teaching and learning.
42. What was the debate over number of language in education?
43. Write the principles of curriculum construction?
44. What is integration of knowledge? Explain with an example.
45. Assess Education as a discipline.
46. Explain the concept of 'multidisciplinary approach'.
47. What are the basic differences between a science teacher's approach and a language teacher's approach in the classroom?
48. What are the steps in scientific approach?
49. Write short note on socio cultural perspective of science.
50. Write about the language policy at secondary level across India. Write merits and demerits.
51. Write short history of emergence of mathematics as a discipline.
52. Write short note on the philosophy of social science.

Group C

Broad type questions

(for 10 marks)

1. Explain the interrelation amongst various school subjects.
2. Discuss with the help of a flow chart the steps in scientific investigation.
3. Discuss the phases of language development.
4. Discuss the relationship of mathematics with other school subjects.
5. Discuss the place and relevance of social science in school curriculum.

6. Education as interdisciplinary field of studies – Discuss the concept.
7. Analyse the observation as a process and mention the steps of the process.
8. Explain the concept of communication and discuss the role of communication in teaching – learning situations.
9. How Secondary School Mathematics can be connected to daily life situation?
10. Illuminate on the Philosophy of Social science.
11. Discuss the history of science studies in ancient, medieval and modern era.
12. Explain the context of science education in present day India.
13. Discuss the observation method of science education.
14. State the place of scientific knowledge in the scheme of school curriculum.
15. Discuss the contemporary ideas of paradigm shift in discipline. Discuss the contemporary and future position of science education.
16. What are the contributions of different scientists in science education?
17. What do you mean by science text book? What are the characteristics of an ideal science text book?
18. Enumerate the relation among curriculum, syllabus and text book in science education.
19. Discuss the importance of social science as an area of study.
20. Mention the characteristics of social science family members.
21. Education is a multidisciplinary field of study—discuss the concept.
22. Emergence of various disciplines into education—discuss with example.
23. Discuss about mutual relationship and interdependence of subjects in school curriculum.
24. Describe the history of mathematics.
25. Describe the relationship of other subjects with mathematics.
26. Discuss about language in school curriculum: aims, issues and debates.
27. Mention the recommendations of different commissions about language in school curriculum.
28. With an example explain how you can follow interdisciplinary approach in the classroom (Mention the class).
29. Describe briefly the history of development of disciplines.
30. Discuss the steps in scientific investigation.
31. What are the basic language skills? Write elaborately to develop any particular skill of a language.
32. Explain nature and philosophy of social science.
33. Briefly explain the nature of science (science as product and science as process).
34. Do you think that the scientific process is one of the best processes in science teaching.