

UG Even Semester (CBCS) Exam., May—2017

EDUCATION

(4th Semester)

Course No. : BSED-403

Full Marks : 70

Pass Marks : 28

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Candidates are to answer *either* TOM-1
or TOB-1

Course No. : TOM-1

(**TEACHING OF MATHEMATICS**)

1. (a) Describe the important aims of teaching mathematics at secondary school level. 7
(b) Explain instructional objective with the help of example. 7

OR

2. (a) Define lesson plan. 5
(b) Explain the important steps of lesson plan with the help of suitable illustration. 9

3. (a) Critically analyze the mathematics curriculum of higher secondary school of SEBA Board. 7

- (b) What is heuristic method of teaching? Explain its important steps. 2+5=7

OR

4. Write notes on any *two* of the following : 7×2=14

(a) Inductive and deductive methods

(b) Problem-solving method

(c) Project method

5. (a) Define individualized instruction. 4

- (b) What do you understand by programmed learning? Explain linear programming with the help of example. 3+7=10

OR

6. (a) Discuss the use of Internet in teaching mathematics. 6

- (b) What is EDUSAT? Describe the importance in teaching and learning of mathematics. 3+5=8

(3)

7. (a) Explain the role of microteaching in inculcation of teaching skills. 7
(b) Discuss the skill of introduction and write down its importance in lesson planning. 4+3=7

OR

8. (a) Define reinforcement. 4
(b) Discuss the skill of reinforcement with the help of microlesson plan. 10
9. (a) What is achievement test? 4
(b) Explain the important steps of construction of an achievement test. 10

OR

10. Write short notes on any *two* of the following : 7×2=14
(a) Diagnostic testing and remedial teaching
(b) Formative and summative evaluations
(c) Norm reference test and criterion reference test

(4)

Course No. : TOB—1

(TEACHING OF BIOLOGY)

1. (a) Describe the various steps of observation in natural science. 7
(b) Explain the roles of natural science in the modern world. 7

OR

2. (a) What is scientific method? Describe its steps and utility. 7
(b) Discuss the objectives of teaching natural science at secondary levels. 7
3. (a) Describe the steps, merits and demerits of project method in science teaching. 7
(b) Write a short note on concept attainment model. 7

OR

4. (a) What is improvised teaching aids? Discuss its significance in science teaching-learning process. 7
(b) State the process of field trips and describe its significance in teaching natural science. 7

(5)

5. (a) Give a brief idea about general and specific objectives of teaching of natural science. 7
- (b) Explain taxonomy of educational objectives with special reference to Bloom's taxonomy. 7

OR

6. (a) Prepare a lesson plan format by following all the steps of lecture cum demonstration method on mitosis cell division. 7
- (b) What are the steps in constructivist lesson plan? Prepare a format by following these steps on any topic of your choice. 7
7. (a) Write the general and specific objectives of teaching plasma membrane to IX standard students. 7
- (b) Prepare a teacher-pupil activity plan on the teaching of meristematic tissue. 7

OR

8. (a) Analyze the content epithelial tissue and prepare its general and specific objectives for the teaching of class IX students. 7
- (b) Prepare an activity plan on proto-chordata. 7

(6)

9. (a) What is C₄ cycle? How could it be conceptualized to the Xth standard students? 7
- (b) How are glucose broken down to provide energy in the form of ATP? 7

OR

10. (a) Describe the philosophy of urine formation. As a natural science teacher, how will you introduce this concept to class IX standard students? 7
- (b) Explain the mechanism of nutrition in animal. 7
