

Subject : **EDU-15.9 Advanced Studies : Curriculum and Pedagogic Courses - Natural Science Education** |

Q1: BSCS stands for

Opt. 1 : Basic science curriculum study

Opt. 2 : Broad science curriculum study

Opt. 3 : Biological science curricular study

Opt. 4 : Biological sciences curriculum study ✓

Q2: Identify the principle of curriculum construction considered by including the topic,'native varieties of crop plants and animals' in VIII standard biology textbook

Opt. 1 : Principle of Motivation

Opt. 2 : Principles of Comprehensiveness

Opt. 3 : Principles of Integration

Opt. 4 : Principle of Conservation ✓

Q3: Heavy and uncontrollable bleeding is the symptom of

Opt. 1 : Hemophilia ✓

Opt. 2 : Sickle Cell Anemia

Opt. 3 : Phenylketonuria

Opt. 4 : Turner Syndrome

Q4: Select the most suitable statement related to spiral approach

Opt. 1 : It gives importance to knowledge and values

Opt. 2 : Course of study is designed with students

Opt. 3 : It does not follow maxims of teaching

Opt. 4 : Continuity of topic is never broken while attempting gradation ✓

Q5: Use of Yes or No question is a characteristic of

Opt. 1 : Herbartian Approach

Opt. 2 : Inquiry Training Model ✓

Opt. 3 : Constructivist Approach

Opt. 4 : Concept attainment model

Q6: The duration of National Science Olympiad is

Opt. 1 : One Hour ✓

Opt. 2 : Two Hour

Opt. 3 : Three Hour

Opt. 4 : Four Hours

Q7: Which of the following is a teacher initiated method of teaching?

Opt. 1 : Lecture cum demonstration Method ✓

Opt. 2 : Experimental Method

Opt. 3 : Problem Solving Method

Opt. 4 : Project Method

Q8: According to Bloom's digital taxonomy, making a film with environmental importance comes under the objective

Opt. 1 : Apply

Opt. 2 : Analyse

Opt. 3 : Evaluate

Opt. 4 : Create ✓

Q9: The basic general eligibility for CSIR NET exam is

Opt. 1 : 55% marks in any postgraduate degree

Opt. 2 : 55% marks in M.Sc or equivalent degree ✓

Opt. 3 : 50% marks in any postgraduate degree

Opt. 4 : 50% marks in M.Sc or equivalent degree

Q10: Which cell organelle is the primary site of protein synthesis

Opt. 1 : Lysosomes

Opt. 2 : Nucleus

Opt. 3 : Centrosome

Opt. 4 : Ribosomes ✓

Q11: Name the type of project where construction of a material, object or article takes place

Opt. 1 : Drill Type

Opt. 2 : Consumer Type

Opt. 3 : Production Type ✓

Opt. 4 : Problem Solving Type

Q12: In a concept map, the data related to various cell organelles are arranged around a central theme 'cell'. This is the example of

Opt. 1 : Spider Map ✓

Opt. 2 : Hierarchical Map

Opt. 3 : Chronological Map

Opt. 4 : Flow Chart

Q13: Presence of jointed legs or appendages is the key characteristic of

Opt. 1 : Phylum Arthropoda ✓

Opt. 2 : Phylum Nematodea

Opt. 3 : Phylum Coelenterata

Opt. 4 : Phylum Platyhelminthes

Q14: In skill of stimulus variation, the component 'focusing' refers to

Opt. 1 : Change in sensory channel

Opt. 2 : Movements of body parts

Opt. 3 : Introduction of silence

Opt. 4 : Stress on a content ✓

Q15: Name the Herbatian step in which checking of previous knowledge takes place

Opt. 1 : Application

Opt. 2 : Recapitulation

Opt. 3 : Preparation ✓

Opt. 4 : Presentation

Q16: Bt cotton is

Opt. 1 : Flood resistant

Opt. 2 : Drought Resistant

Opt. 3 : Pest Resistant ✓

Opt. 4 : Disease Resistant

Q17: The ability of a curriculum that enables students to appreciate the issues at the interface of science, technology and society ensures its

Opt. 1 : Environmental Validity ✓

Opt. 2 : Process Validity

Opt. 3 : Cognitive Validity

Opt. 4 : Content Validity

Q18: KTET examination is introduced according to the directions of

Opt. 1 : NEP 2020

Opt. 2 : RTE act 2009 ✓

Opt. 3 : NPE 1986

Opt. 4 : NPE 1968

Q19: The google science fair open for students of the age group

Opt. 1 : 10 to 15 years

Opt. 2 : 15 to 18 years

Opt. 3 : 12 to 15 years

Opt. 4 : 13 to 18 years ✓

Q20: Name the approach in curriculum organization that gives importance to life and environmental centered topics

Opt. 1 : Concentric Approach

Opt. 2 : Spiral Approach

Opt. 3 : Topic Approach ✓

Opt. 4 : Unit Approach

Q21: Students who have scored 90 to 100% marks will get A+ grade. This is an example for

Opt. 1 : Direct Grading

Opt. 2 : Indirect Grading

Opt. 3 : Absolute Grading ✓

Opt. 4 : Relative Grading

Q22: Select the correct statement

Opt. 1 : Syllabus is a part of curriculum ✓

Opt. 2 : Syllabus and curriculum are the same

Opt. 3 : Curriculum is a part of syllabus

Opt. 4 : Curriculum deals only with curricular activities

Q23: 'Respect for other team' is a criterion in the rubric for assessing

Opt. 1 : Seminar

Opt. 2 : Debate ✓

Opt. 3 : Project

Opt. 4 : Discussion

Q24: In micro-teaching, observing the demonstration of a skill by teacher educator comes under

Opt. 1 : Skill acquisition phase

Opt. 2 : Transfer phase

Opt. 3 : Knowledge acquisition phase ✓

Opt. 4 : Post active phase

Q25: Continuous and comprehensive evaluation was emphasised in

Opt. 1 : Radha Krishnan Commission

Opt. 2 : Mudaliar Commission

Opt. 3 : Education Commission 1964

Opt. 4 : National Policy on Education 1986 ✓

Q26: In 5E model, students make connection between past and present learning experience in the stage

Opt. 1 : Engage ✓

Opt. 2 : Explain

Opt. 3 : Explore

Opt. 4 : Elaborate

Q27: Cellular Respiration takes place in

Opt. 1 : Endoplasmic Reticulum

Opt. 2 : Ribosomes

Opt. 3 : Golgi Bodies

Opt. 4 : Mitochondria ✓

Q28: A resource unit is primarily meant for

Opt. 1 : Students

Opt. 2 : Administrators

Opt. 3 : Examiners

Opt. 4 : Teachers ✓

Q29: Select the correct statement

Opt. 1 : Diagnostic test gives importance to the marks scored by students

Opt. 2 : Diagnostic test has time limit

Opt. 3 : Diagnostic test helps to identify learning difficulties ✓

Opt. 4 : Diagnostic test is conducted in a controlled environment

Q30: Select the correct statement related to network learning

Opt. 1 : It is not suitable for discussions

Opt. 2 : Presence of teacher is essential

Opt. 3 : It provides a collaborative learning environment ✓

Opt. 4 : It is a technique for individualised instruction

Q31: Which of the following test item has more objectivity

Opt. 1 : Essay

Opt. 2 : Short answer

Opt. 3 : Multiple Choice ✓

Opt. 4 : Very short answer

Q32: The first genetically engineered human insulin was produced by

Opt. 1 : Monsanto

Opt. 2 : Eli Lilly ✓

Opt. 3 : 23andMe

Opt. 4 : Veritas Genetics

Q33: Which of the following is more helpful for a student to understand the process of digestion

Opt. 1 : A presentation

Opt. 2 : An interactive simulation ✓

Opt. 3 : An e-workbook

Opt. 4 : A labelled diagram

Q34: Which of the following is a higher order thinking question?

Opt. 1 : Who discovered nucleus?

Opt. 2 : Describe the structure of chloroplast

Opt. 3 : List out the salient features of phylum chordate

Opt. 4 : Evaluate the impact of global warming ✓

Q35: In continuous professional development, setting priorities according to the urgency and importance of programmes to be attended comes under the stage

Opt. 1 : Reflection

Opt. 2 : Identification of need ✓

Opt. 3 : Learning Activity

Opt. 4 : Change in practice

Q36: Which of the following is Mendelian disorder

Opt. 1 : Sickle Cell Anemia ✓

Opt. 2 : Down Syndrome

Opt. 3 : Klinefelter Syndrome

Opt. 4 : Trisomy 21

Q37: Which of the following technique is more suitable for teaching the pros and cons of GM crops

Opt. 1 : Peer tutoring

Opt. 2 : Concept map

Opt. 3 : Team Teaching

Opt. 4 : Debate ✓

Q38: Articulation is the ability to

Opt. 1 : Differentiate various movements and select the proper one

Opt. 2 : Handle many actions together ✓

Opt. 3 : Perform naturally

Opt. 4 : Decrease faults in performance through practice or repetition

Q39: The primary obligation of a teacher is towards

Opt. 1 : Students ✓

Opt. 2 : Parents

Opt. 3 : Colleagues

Opt. 4 : Authorities

Q40: In a dihybrid cross between plants with round yellow seed and wrinkled green seed, the F₂ generation produced plants with round-yellow, wrinkled-yellow, round green and wrinkled green seeds. It supports

Opt. 1 : Law of Dominance

Opt. 2 : Law of segregation

Opt. 3 : Law of Independent Assortment ✓

Opt. 4 : Law of Separation

Q41: Which of the following statements is associated with interdisciplinary approach?

Opt. 1 : Directing students to find out a concept

Opt. 2 : Demonstrating experiment to teach a concept

Opt. 3 : Connecting a concept in biology with a mathematical principle ✓

Opt. 4 : Asking students to solve a problem independently

Q42: Who is the principal proponent of objective based evaluation?

Opt. 1 : Ralph Tyler ✓

Opt. 2 : Benjamin S Bloom

Opt. 3 : Jean Piaget

Opt. 4 : Lev Vygotsky

Q43: Which of the following statements is related to reflective practice?

Opt. 1 : It provides foundation for professional development ✓

Opt. 2 : It is helpful only for the personal development of the teacher

Opt. 3 : It is not related to values and social identity

Opt. 4 : Reflective practice is expressed only in written form

Q44: Cell theory states that

Opt. 1 : All cells are eukaryotic

Opt. 2 : All cell organelles have genetic material

Opt. 3 : All living organisms are composed of cells ✓

Opt. 4 : All living organisms have similar composition

Q45: In guided discovery

Opt. 1 : Teacher explains the content

Opt. 2 : Students actively participate in discovering knowledge ✓

Opt. 3 : Students are passive

Opt. 4 : Teacher discovers the knowledge and shares it with students

Q46: Mc Cormack and Yager formulated a taxonomy for

Opt. 1 : Language Education

Opt. 2 : Social Science Education

Opt. 3 : Science Education ✓

Opt. 4 : All of the above

Q47: The type of research that can be used by a teacher to find immediate solution for a classroom problem is

Opt. 1 : Fundamental Research

Opt. 2 : Applied Research

Opt. 3 : Experimental Research

Opt. 4 : Action Research ✓

Q48: Name the kingdom that composed of unicellular prokaryotic organism lacking a true nucleus and membrane bound organelles.

Opt. 1 : Protista

Opt. 2 : Monera ✓

Opt. 3 : Fungi

Opt. 4 : Plantae

Q49: A teacher emphasises the contribution of various scientists while teaching genetics.This is an example for

Opt. 1 : Guided Discovery

Opt. 2 : Heuristic Method

Opt. 3 : Brain Storming

Opt. 4 : Biographical Method ✓

Q50: Objectives are

Opt. 1 : Long term goals

Opt. 2 : Short term goals ✓

Opt. 3 : Broad and general

Opt. 4 : Not easily achievable

Q51: Knowledge about educational trends, pedagogical methods, techniques etc comes under

Opt. 1 : Contextual Competency

Opt. 2 : Content related competency

Opt. 3 : Conceptual Competency ✓

Opt. 4 : Transactional Competency

Q52: The use of bio resources by multinational companies and other organizations without proper authorization from the countries and people concerned without compensatory payment is called

Opt. 1 : Bioethics

Opt. 2 : Bio piracy ✓

Opt. 3 : Bio terror

Opt. 4 : Bio weapon

Q53: Model developed by J R Suchman

Opt. 1 : Concept attainment Model

Opt. 2 : Advance organizer Model

Opt. 3 : Inquiry Training Model ✓

Opt. 4 : Inductive Thinking Model

Q54: Bloom's digital taxonomy was developed by

Opt. 1 : B S Bloom

Opt. 2 : Andrew Churches ✓

Opt. 3 : Anderson

Opt. 4 : Krathwohl

Q55: A method in which large amounts of material on any subjects can be explained in a short span of time

Opt. 1 : Project Method

Opt. 2 : Problem solving method

Opt. 3 : Lecture method ✓

Opt. 4 : Heuristic Method

Q56: Smallest taxon of classification is

Opt. 1 : Kingdom

Opt. 2 : Family

Opt. 3 : Variety

Opt. 4 : Species ✓

Q57: Which among the following is an example of attenuated bacterial vaccine?

Opt. 1 : Cholera

Opt. 2 : Typhoid ✓

Opt. 3 : Anthrax

Opt. 4 : Plague

Q58: Who is the proponent of Heuristic Method?

Opt. 1 : Armstrong ✓

Opt. 2 : Skinner

Opt. 3 : Dewey

Opt. 4 : Bruner

Q59: Which of the following disorder is also called the Royal disease?

Opt. 1 : Colour Blindness

Opt. 2 : Haemophilia ✓

Opt. 3 : Sickle Cell Anemia

Opt. 4 : Alzheimer's Disease

Q60: Which of these are not eukaryotic?

Opt. 1 : Plants

Opt. 2 : Fungi

Opt. 3 : Protists

Opt. 4 : Monerans ✓

Q61: A method which helps the students to learn the facts and principles along with hardships undergone by the scientists, their experiments, apparatus and improvisation is

Opt. 1 : Lecture Method

Opt. 2 : Biographical Method ✓

Opt. 3 : Debate

Opt. 4 : Guided Discovery

Q62: According to Mendel, what was responsible for the inheritance of specific traits?

Opt. 1 : Genes

Opt. 2 : Factors ✓

Opt. 3 : Chromosomes

Opt. 4 : DNA

Q63: In Revised Bloom's Taxonomy, strategic knowledge and self knowledge of Knowledge dimension comes under

Opt. 1 : Factual Knowledge

Opt. 2 : Conceptual Knowledge

Opt. 3 : Procedural Knowledge

Opt. 4 : Metacognitive Knowledge ✓

Q64: Which among the following steps in Herbartian approach of lesson planning reviews the learning of concepts by students?

Opt. 1 : Presentation

Opt. 2 : Generalization

Opt. 3 : Recapitulation ✓

Opt. 4 : Application

Q65: What is the type of inheritance of Phenylketonuria

Opt. 1 : Autosomal Recessive ✓

Opt. 2 : Autosomal Dominant

Opt. 3 : Sex Linked Recessive

Opt. 4 : Sex Linked Dominant

Q66: Site of peptide synthesis in a cell

Opt. 1 : Mitochondria

Opt. 2 : Ribosome ✓

Opt. 3 : Golgi body

Opt. 4 : Chloroplast

Q67: In this approach of curriculum organization,whole curriculum is spread over a number of year,where almost all the topics are attempted at the beginning and it is developed in successive years according to the mental development of the pupils. While attempting gradation, the linkage too is taken care of and the continuation of the topic concerned is never broken

Opt. 1 : Spiral Approach ✓

Opt. 2 : Concentric Approach

Opt. 3 : Psychological Approach

Opt. 4 : Logical Approach

Q68: In Mc Cormack and Yager's Taxonomy, idea generation,designing and problem solving are coming under

Opt. 1 : Concept Domain

Opt. 2 : Process Domain

Opt. 3 : Creativity Domain ✓

Opt. 4 : Attitude Domain

Q69: The cell organelle which help in the formation of spindle fibers is

Opt. 1 : Lysosome

Opt. 2 : Chromosome

Opt. 3 : Centrosome ✓

Opt. 4 : Ribosome

Q70: In Five Kingdom Classification, unicellular algae are included in the kingdom

Opt. 1 : Monera

Opt. 2 : Protista ✓

Opt. 3 : Plantae

Opt. 4 : Fungi

Q71: An indigenously developed IT platform that facilitates hosting of all the courses taught in classrooms to be accessed by anyone,anywhere at any time

Opt. 1 : Epathsala

Opt. 2 : Shodhganga

Opt. 3 : E ShodhSindhu

Opt. 4 : Swayam ✓

Q72: A procedure in teaching which involves examining one's underlying beliefs about teaching and learning and one's alignment with actual classroom practice before, during and after a course is taught is called

Opt. 1 : Reflective Teaching ✓

Opt. 2 : Inquiry based teaching

Opt. 3 : Differentiated Instruction

Opt. 4 : Problem based teaching

Q73: A state level exam conducted by the LBS Centre for science and Technology in Kerala, designed to assess the eligibility of candidates for the position of Higher Secondary School Teachers and Non-Vocational Teachers in VHSE.

Opt. 1 : KTET

Opt. 2 : CTET

Opt. 3 : NET

Opt. 4 : SET ✓

Q74: The domain of Bloom's Taxonomy which describes the way people react emotionally and their ability to feel other living things' pain or joy is

Opt. 1 : Affective Domain ✓

Opt. 2 : Psychomotor Domain

Opt. 3 : Cognitive Domain

Opt. 4 : Process Domain

Q75: NTSE is conducted by

Opt. 1 : UGC

Opt. 2 : NCERT ✓

Opt. 3 : SCERT

Opt. 4 : NCTE

Q76: In an achievement test which criteria refers, how consistently the test produces the same results when it is measured or evaluated

Opt. 1 : Reliability ✓

Opt. 2 : Validity

Opt. 3 : Objectivity

Opt. 4 : Usability

Q77: CSIR is

Opt. 1 : Center for Scientific and Industrial Research

Opt. 2 : Council of Science and Industrial Research

Opt. 3 : Council of Scientific and Industrial Research ✓

Opt. 4 : Center for Scientific and Industrialized Research

Q78: Who proposed Five Kingdom Classification?

Opt. 1 : R H Whittaker ✓

Opt. 2 : Linnaeus

Opt. 3 : Ernst Haeckel

Opt. 4 : Carl Woese

Q79: In Bloom's taxonomy, the level of presenting and defending opinions by making judgements about information, ideas, tasks, etc is

Opt. 1 : Comprehension

Opt. 2 : Application

Opt. 3 : Evaluation ✓

Opt. 4 : Analysis

Q80: Interdisciplinary approach

Opt. 1 : Involves use of a number of media, devices and techniques for teaching and learning

Opt. 2 : Students construct knowledge by actively building on what they already know

Opt. 3 : Combines lessons from different subjects around a common theme ✓

Opt. 4 : Emphasizes discovery and leads students from specific observations to general theories

Q81: Which method is advocated by John Dewey

Opt. 1 : Project Method ✓

Opt. 2 : Problem Solving Method

Opt. 3 : Guided Discovery Method

Opt. 4 : Experimental Method

Q82: The National Curriculum Framework 2005 is the forth National Curriculum Framework published by

Opt. 1 : SCERT

Opt. 2 : UGC

Opt. 3 : NCERT ✓

Opt. 4 : NCF

Q83: Education is regarded as a means of sustaining the cultural heritage of humanity ie, preservation of the past experiences and transmission of experiences. This principle of curriculum construction associates to

Opt. 1 : Principles of civic and social needs

Opt. 2 : Principles of forward looking

Opt. 3 : Principle of preparation for living

Opt. 4 : Principles of conservation ✓

Q84: The genotypic ratio of a monohybrid cross is

Opt. 1 : 1:2:1 ✓

Opt. 2 : 3:1

Opt. 3 : 2:1:1

Opt. 4 : 9:3:3:1

Q85: "Curriculum is a tool in the hands of the artist to mould his material according to his ideas in his studio". Here 'studio' refers to

Opt. 1 : Stage

Opt. 2 : School ✓

Opt. 3 : Laboratory

Opt. 4 : Library

Q86: Lack of continuity,using vague words,inappropriate vocabulary and irrelevant statements should be avoided while practicing the

Opt. 1 : Skill of reinforcing

Opt. 2 : Skill of black board writing

Opt. 3 : Skill of explaining ✓

Opt. 4 : Skill of stimulus variation

Q87: In 5 E model,the stage in which students begin to investigate the problems associated with the topic or concept and pose real questions to develop hypotheses

Opt. 1 : Engage

Opt. 2 : Explore ✓

Opt. 3 : Explain

Opt. 4 : Extend

Q88: Which technique is designed to diagrammatically depict the suggested relationship between different ideas and concepts?

Opt. 1 : Peer tutoring

Opt. 2 : Brain Storming

Opt. 3 : Concept Mapping ✓

Opt. 4 : Debate

Q89: The element of the model used to describe its goal and objectives

Opt. 1 : Focus ✓

Opt. 2 : Social System

Opt. 3 : Support System

Opt. 4 : Syntax

Q90: Which test is designed to locate specific learning deficiencies at a particular stage of learning so that specific efforts could be made to overcome those deficiencies?

Opt. 1 : Achievement Test

Opt. 2 : Diagnostic Test ✓

Opt. 3 : Prognostic Test

Opt. 4 : Aptitude Test

Q91: Concept attainment model was developed by

Opt. 1 : Jerome S Bruner ✓

Opt. 2 : Benjamin Bloom

Opt. 3 : B F Skinner

Opt. 4 : Jean Piaget

Q92: In this technique the responsibility is shared by a group of teachers to teach different aspects of a topic

Opt. 1 : Seminar

Opt. 2 : Debate

Opt. 3 : Brain Storming

Opt. 4 : Team teaching ✓

Q93: An instrumental technique which aligns with ZPD and provide tailored support to students based on their current level of expertise and gradually withdrawing that support as they become more proficient

Opt. 1 : Guiding

Opt. 2 : Inspiring

Opt. 3 : Encouraging

Opt. 4 : Scaffolding ✓

Q94: Which of the following can be defined as a collection of teaching content, objectives, learning experiences, experiments, outdoor activities, tools of evaluation, assignments and even references

Opt. 1 : Lesson plan

Opt. 2 : Resource Unit ✓

Opt. 3 : Unit Plan

Opt. 4 : Year Plan

Q95: Which among the following is a disadvantage of networking?

Opt. 1 : Privacy and Security concerns ✓

Opt. 2 : Sharing of Information

Opt. 3 : Sharing of resources

Opt. 4 : Centralized Software

Q96: Alex F Osborn developed a teaching technique called

Opt. 1 : Debate

Opt. 2 : Concept mapping

Opt. 3 : Peer tutoring

Opt. 4 : Brain Storming ✓

Q97: Which among the following is not a feature of Constructivist approach?

Opt. 1 : Active Learning

Opt. 2 : Social Interaction

Opt. 3 : Stimulus response mechanism ✓

Opt. 4 : Teacher is a facilitator

Q98: This approach of teaching leads students from specific observations to general theories

Opt. 1 : Deductive Method

Opt. 2 : Inductive Approach ✓

Opt. 3 : Multimedia Approach

Opt. 4 : Interdisciplinary Approach

Q99: Bt toxin is produced by a bacterium called

Opt. 1 : Bacillus thuringiensis ✓

Opt. 2 : Bacillus anthracis

Opt. 3 : Bacillus thermophilus

Opt. 4 : Bacillus subtilis

Q100: Which among the following is a student centered method?

Opt. 1 : Problem Solving Method ✓

Opt. 2 : Lecture Method

Opt. 3 : Lecture cum demonstration Method

Opt. 4 : Biographical Method
