

Subject : EDU-15.8 Advanced Studies : Curriculum and Pedagogic Courses - Physical Science Education |

Q1: Type of question that can be used to enhance creativity among students

Opt. 1 : Multiple Choice Questions

Opt. 2 : Subjective and open ended questions ✓

Opt. 3 : Short answer questions

Opt. 4 : Closed questions

Q2: According to constructivism knowledge is

Opt. 1 : Objective and absolute

Opt. 2 : Subjective and Personal ✓

Opt. 3 : Fixed and Unchanging

Opt. 4 : Changing with time

Q3: Self pacing and mastery learning can be achieved by

Opt. 1 : Problem based Learning

Opt. 2 : Project Method

Opt. 3 : Personalized Instruction ✓

Opt. 4 : Guided Discovery

Q4: KVPY stands for

Opt. 1 : Kishore Vaigyanik Parivarthan Yogana

Opt. 2 : Kishore Vaigyanik Padan Yogana

Opt. 3 : Kishore Vaigyanik Protsahan Yogana ✓

Opt. 4 : None of these

Q5: Edmodo provides

Opt. 1 : Online platform where teachers can create personalized online assessments ✓

Opt. 2 : Limited Storage

Opt. 3 : Face to face interactions

Opt. 4 : None of the above

Q6: A webcast does not provide

Opt. 1 : Repeatability

Opt. 2 : Share-ability

Opt. 3 : Closed intimate setting ✓

Opt. 4 : Flexible Environment

Q7: Which of the following is a webinar software

Opt. 1 : ZOOM

Opt. 2 : Demio

Opt. 3 : WebEx

Opt. 4 : All of the above ✓

Q8: Which of the following offers summer courses in science for students and teachers in India

Opt. 1 : Indian academy of sciences ✓

Opt. 2 : CSIR

Opt. 3 : Ministry of Science and Technology

Opt. 4 : All of the above

Q9: The way through which SWAYAM operates MOOC's learning resources

Opt. 1 : e-Tutorial

Opt. 2 : e-Content

Opt. 3 : Discussion forum

Opt. 4 : All of the above ✓

Q10: The motto of e-twinning programme was

Opt. 1 : Online networking of all schools

Opt. 2 : Educational platform for schools in Europe

Opt. 3 : e-platform for schools in Europe

Opt. 4 : The community for schools in Europe ✓

Q11: Which of the following is not a characteristic of teaching as a profession

Opt. 1 : Authoritative attitude of the teacher ✓

Opt. 2 : Knowledge and skills of the teacher

Opt. 3 : Code of ethics of the teacher

Opt. 4 : High profile of the teacher

Q12: The district level organization that provides pre-service and in-service training to elementary and secondary school teachers is

Opt. 1 : SIE

Opt. 2 : DSIR

Opt. 3 : DRDA

Opt. 4 : DIET ✓

Q13: Knowledge about stages of child development, right perspective towards education and implication of education is known as

Opt. 1 : Contextual Competency

Opt. 2 : Content Competency

Opt. 3 : Conceptual Competency ✓

Opt. 4 : Transactional Competency

Q14: A person can be a good teacher if

Opt. 1 : he/she has the ability to control the students

Opt. 2 : he/she has genuine interest in teaching ✓

Opt. 3 : he/she has very good subject knowledge

Opt. 4 : he/she has very good communication skills

Q15: How can the academic competency of a student can be determined?

Opt. 1 : By examining the total marks gained by the student

Opt. 2 : By Comparing the student achievement with other students

Opt. 3 : By setting specific standards and assessing student performance accordingly ✓

Opt. 4 : By ability grouping

Q16: The National level examination conducted in India by CBSE for determining the eligibility of candidate for appointment as a teacher

Opt. 1 : GATE

Opt. 2 : SET

Opt. 3 : CTET ✓

Opt. 4 : GRE

Q17: The first google science fair was announced in

Opt. 1 : 2010

Opt. 2 : 2011 ✓

Opt. 3 : 2015

Opt. 4 : 2018

Q18: NTSE by NCERT is conducted for students ofstandard only in India

Opt. 1 : Eight

Opt. 2 : Nine

Opt. 3 : Ten ✓

Opt. 4 : Twelve

Q19: E-portfolio refers to

Opt. 1 : A digital platform where a person can showcase his works,skills and achievements ✓

Opt. 2 : An electronic face to face interaction of the teacher and students

Opt. 3 : An electronic assignment which is submitted online by the student

Opt. 4 : An online tool to test the student's technological skills

Q20:are structured scoring guides that provide criteria for evaluating performance

Opt. 1 : Tests

Opt. 2 : Rubrics ✓

Opt. 3 : Anecdotal Records

Opt. 4 : All of the above

Q21: Which is incorrect in the case of objective type test items

Opt. 1 : Suitable for those who have poor vocabulary

Opt. 2 : Large amount of subject matter can be covered within short period

Opt. 3 : Construction of the item is very easy ✓

Opt. 4 : It tests the ability to discriminate between misconceptions and scientific truth

Q22: Achievement test can be used

Opt. 1 : To measure the learning outcome of the students

Opt. 2 : To check any weakness in instruction

Opt. 3 : To know the effectiveness of an academic programme

Opt. 4 : All of the above ✓

Q23: Limiting to quantitative description of learner's performance is

Opt. 1 : Evaluation

Opt. 2 : Measurement ✓

Opt. 3 : Test

Opt. 4 : Assessment

Q24: Knowledge of subject specific technique and methods refers to

Opt. 1 : Factual Knowledge

Opt. 2 : Conceptual Knowledge

Opt. 3 : Procedural Knowledge ✓

Opt. 4 : metacognitive Knowledge

Q25: Which one is the highest level of cognitive domain of revised Bloom's Taxonomy.

Opt. 1 : Evaluating

Opt. 2 : Synthesizing

Opt. 3 : Creating ✓

Opt. 4 : Applying

Q26: Builds a structure or patterns from diverse elements-comes under which subdomain of Bloom's taxonomy

Opt. 1 : Comprehension

Opt. 2 : Application

Opt. 3 : Analysis

Opt. 4 : Synthesis ✓

Q27: The highest level of affective domain is

Opt. 1 : Characterization ✓

Opt. 2 : Valuing

Opt. 3 : Organization

Opt. 4 : Naturalization

Q28: Bloom's taxonomy was introduced in the year

Opt. 1 : 1952

Opt. 2 : 1958

Opt. 3 : 1956 ✓

Opt. 4 : 1954

Q29: The most effective education that can be offered to children with special needs is

Opt. 1 : Special Education

Opt. 2 : Inclusive Education ✓

Opt. 3 : Integrated Education

Opt. 4 : Home Schooling

Q30: The online tool that offers virtual field trips to scientifically important places and museums guided by the science teacher is

Opt. 1 : Moodle

Opt. 2 : Google Classroom

Opt. 3 : Google Expeditions ✓

Opt. 4 : MS Classroom

Q31: Which memory involves the use of the body so that anything the learner learns turn into a perfect memory by repeated practice?

Opt. 1 : Semantic

Opt. 2 : Procedural ✓

Opt. 3 : Sensory

Opt. 4 : Episodic

Q32: Taxonomy refers to

Opt. 1 : Systematic Arrangement ✓

Opt. 2 : Proper Coordination

Opt. 3 : Behavioural Patterns

Opt. 4 : Bottom to top

Q33: Which of the following is the main objective of organizing science club activities?

Opt. 1 : To provide the learners with the opportunities to enjoy the beauty of science

Opt. 2 : To develop a group cohesion among the learners

Opt. 3 : To develop among the learners the skill of organizing activities

Opt. 4 : All of the above ✓

Q34: Which of the following will be most effective technique to teach covalent bonding?

Opt. 1 : Concept Mapping

Opt. 2 : Role Play ✓

Opt. 3 : Discussion

Opt. 4 : Brain Storming

Q35: Concept mapping technique was introduced by

Opt. 1 : J D Nowak ✓

Opt. 2 : D W Allen

Opt. 3 : Lee Shulman

Opt. 4 : Stephen M Correy

Q36: A group technique which helps to generate many solutions to a given problem

Opt. 1 : Problem Solving

Opt. 2 : Co-operative Learning

Opt. 3 : Mind Mapping

Opt. 4 : Brain Storming ✓

Q37: Which of the following is the first step in problem solving

Opt. 1 : Collecting data

Opt. 2 : Observation

Opt. 3 : Identification of the problem ✓

Opt. 4 : Making hypothesis

Q38: Which is the major recommendation of KCF 2007 in relation to science education?

Opt. 1 : Reciprocal teaching

Opt. 2 : Issue Based Curriculum ✓

Opt. 3 : Individualised Instruction

Opt. 4 : Collaborative Learning

Q39: 'Think-pair-share' enhances

Opt. 1 : Creativity

Opt. 2 : Critical Thinking

Opt. 3 : Collaboration

Opt. 4 : All of the above ✓

Q40: Which of the following is not related to constructivist approach to teaching

Opt. 1 : Group activity

Opt. 2 : Peer tutoring

Opt. 3 : Dignified discussion

Opt. 4 : Memorization ✓

Q41: For a first order reaction ,which of the following is correct

Opt. 1 : the rate constant increases with decrease in temperature

Opt. 2 : the rate constant is directly proportional to half life

Opt. 3 : the rate constant increases with increases in temperature ✓

Opt. 4 : the rate constant remains the same with varying temperature

Q42: Lunar eclipse occur when

Opt. 1 : Earth is between Sun and Moon ✓

Opt. 2 : Moon is between Sun and Earth

Opt. 3 : Earth is between moon and other celestial bodies

Opt. 4 : Sun is between earth and moon

Q43: Which of the following is incorrect for an insulator

Opt. 1 : High value of resistivity

Opt. 2 : Has strong covalent bonds

Opt. 3 : Positive temperature coefficient ✓

Opt. 4 : Its magnetic field does not store energy

Q44: Twinkling of stars is due to

Opt. 1 : Total refraction

Opt. 2 : Total Reflection

Opt. 3 : Atmospheric Reflection

Opt. 4 : Atmospheric Refraction ✓

Q45: How many six membered rings are there in fullerene?

Opt. 1 : 20 ✓

Opt. 2 : 21

Opt. 3 : 18

Opt. 4 : 17

Q46: The value of electron gain enthalpy for an exothermic reaction is

Opt. 1 : Always positive

Opt. 2 : Always negative ✓

Opt. 3 : Zero

Opt. 4 : Positive or Negative

Q47: Which of the following is an incorrect statement regarding corrosion.

Opt. 1 : It is spontaneous

Opt. 2 : It is degradation

Opt. 3 : Its product is thermodynamically stable

Opt. 4 : It is reversible ✓

Q48: The electronic configuration of potassium is

Opt. 1 : [Ar] 4s1 ✓

Opt. 2 : [Ar] 4s2

Opt. 3 : [Ar] 4s2 3d1

Opt. 4 : [Ne] 4s2

Q49: The atomicity of phosphorus is

Opt. 1 : Mono atomic

Opt. 2 : Diatomic

Opt. 3 : Triatomic

Opt. 4 : Tetra-atomic ✓

Q50: Who is called the father of behaviourism?

Opt. 1 : B F Skinner

Opt. 2 : J B Watson ✓

Opt. 3 : E L Thorndike

Opt. 4 : I P Pavlov
