

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

**Q1:** KTET, Kerala Teacher Eligibility Test was introduced in

Opt. 1 : 2010

Opt. 2 : 2011

Opt. 3 : 2012 ✓

Opt. 4 : 2013

**Q2:** While leading the students, self-evaluation by a teacher shows his role as a

Opt. 1 : Classroom Researcher

Opt. 2 : Reflective Practitioner ✓

Opt. 3 : Co learner

Opt. 4 : Facilitator

**Q3:** The teacher competency which involves the skill of the teacher to achieve high quality educational objectives in minimum time, energy and money

Opt. 1 : Contextual Competencies

Opt. 2 : Conceptual Competencies

Opt. 3 : Management Competencies ✓

Opt. 4 : Extension Competencies

**Q4:** What does CPD mean?

Opt. 1 : Continuing Program Development

Opt. 2 : Collaborative Professional Development

Opt. 3 : Continuing Professional Dimension

Opt. 4 : Continuing Professional Development ✓

**Q5:** The institution entrusted with the responsibility of in-service teacher education for primary and elementary schools at the district level

Opt. 1 : CTE

Opt. 2 : DIET ✓

Opt. 3 : IASE

Opt. 4 : SCERT

**Q6:** What is the main use of an MOOC

Opt. 1 : Free massive online open communication

Opt. 2 : Free mass open optimal Communication

Opt. 3 : Free massive open online content

Opt. 4 : Free massive online open courses for any age group ✓

**Q7:** What is the full form of MOOC

Opt. 1 : Most Organized Offline Courses

Opt. 2 : Modern Online Office Courses

**Opt. 3 :** Massive Open Online Courses ✓

**Opt. 4 :** Massive Office Order Cell

**Q8:** What is SWAYAM

**Opt. 1 :** Non Governmental Organization

**Opt. 2 :** Digital Programme to facilitate education ✓

**Opt. 3 :** Online Quiz

**Opt. 4 :** Name of a website

**Q9:** e-twinning was launched in

**Opt. 1 :** 2005 ✓

**Opt. 2 :** 2010

**Opt. 3 :** 2015

**Opt. 4 :** 2020

**Q10:** The teacher competencies which include clarity of thought, deep understanding of educational theories and thorough knowledge of various educational trends, pedagogical methods, techniques are

**Opt. 1 :** Contextual Competencies

**Opt. 2 :** Conceptual Competencies ✓

**Opt. 3 :** Transactional Competencies

**Opt. 4 :** Extension Competencies

**Q11:** An ethical teacher is guided by a set of beliefs that leads to attitude and actions focused on

**Opt. 1 :** what is best for him

**Opt. 2 :** what is best for the school

**Opt. 3 :** what is best for the parents

**Opt. 4 :** what is best for students ✓

**Q12:** An online science and engineering competition open to students ages 13 to 18 from around the globe

**Opt. 1 :** Google Science fair ✓

**Opt. 2 :** KVPY

**Opt. 3 :** NSTE

**Opt. 4 :** Science Olympiad

**Q13:** A collection of students work on a variety of task throughout the meant for keeping a record of their performance is known as a

**Opt. 1 :** Rubric

**Opt. 2 :** Sociometry

**Opt. 3 :** Data sheet

**Opt. 4 :** Portfolio ✓

**Q14:** The diagnostic test is conducted to

**Opt. 1 :** Check attainment of instructional objectives

**Opt. 2 :** Identify the learning difficulties ✓

**Opt. 3 :** Enhance the learning abilities

**Opt. 4 :** Evaluate the cognitive abilities

**Q15:** After preparing a test,if a teacher repeatedly administers it on the children of the same age group in order to find out the consistency of the test scores,he is looking for the tests

**Opt. 1 :** Validity

**Opt. 2 :** Reliability ✓

**Opt. 3 :** Objectivity

**Opt. 4 :** Utility

**Q16:** Lower order questions are meant to

**Opt. 1 :** apply the ideas of the text

**Opt. 2 :** create new ideas

**Opt. 3 :** analyze the content

**Opt. 4 :** recall facts from previous knowledge ✓

**Q17:** After teaching about 'Force',teacher asks the student to define Force.This is an example for

**Opt. 1 :** Norm referenced Evaluation

**Opt. 2 :** Objective based Evaluation ✓

**Opt. 3 :** Standardized Evaluation

**Opt. 4 :** Competency based Evaluation

**Q18:** In Bloom's digital taxonomy,blogging comes under

**Opt. 1 :** Creating ✓

**Opt. 2 :** Evaluating

**Opt. 3 :** Analyzing

**Opt. 4 :** Applying

**Q19:** Revised Bloom's taxonomy is a

**Opt. 1 :** One dimensional taxonomy

**Opt. 2 :** Two dimensional taxonomy ✓

**Opt. 3 :** Three dimensional taxonomy

**Opt. 4 :** Four dimensional taxonomy

**Q20:** According to Bloom's taxonomy of educational objectives, the lowest level of cognitive domain is

**Opt. 1 :** Analysis

**Opt. 2 :** Evaluation

**Opt. 3 :** Comprehension

**Opt. 4 :** Knowledge ✓

**Q21:** A Students of V grade with "Visual Deficiency" should be

**Opt. 1 :** Helped with his/her routine work by parents and friends

**Opt. 2 :** Treated normally in the classroom and provided support through audio CDs ✓

**Opt. 3 :** Given special treatment in the classroom

**Opt. 4 :** Excused to do a lower level of work

**Q22:** The experimental learning style theory was put forth by

**Opt. 1 :** Piaget

**Opt. 2 :** Bruner

**Opt. 3 :** Kolb ✓

**Opt. 4 :** Vygotsky

**Q23:** Which of the following are the characteristic features of e-learning i) Empowering learner to absorb personal accomplishment ii) Promoting self initiated learning iii) Enhancing cognitive flexibility iv) Providing multiple channels of acquiring knowledge

**Opt. 1 :** i, ii and iii

**Opt. 2 :** ii, iii and iv

**Opt. 3 :** i, iii and iv

**Opt. 4 :** i, ii and iv ✓

**Q24:** Mind mapping refers to

**Opt. 1 :** An action plan for an adventure

**Opt. 2 :** A technique to enhance comprehension ✓

**Opt. 3 :** Drawing the picture of mind

**Opt. 4 :** Studying the functions of mind

**Q25:** Hitch Hiking is a principle of

**Opt. 1 :** Buzz Section

**Opt. 2 :** Brain Storming ✓

**Opt. 3 :** Simulation

**Opt. 4 :** Role Play

**Q26:** The success of buzz session as a teaching technique lies in

**Opt. 1 :** Group Formation

**Opt. 2 :** Awareness of rules and procedures of the technique ✓

**Opt. 3 :** Reporting of the discussion result

**Opt. 4 :** Use of technology

**Q27:** Who propounded Project Method?

**Opt. 1 :** Froebel

**Opt. 2 :** Maria Montessori

**Opt. 3 :** Armstrong

**Opt. 4 :** Kilpatrick ✓

**Q28:** Problem based learning mainly focuses on

**Opt. 1 :** Acquisition of subject competency

**Opt. 2 :** Solution of the problem

**Opt. 3 :** Process involved in problem solving ✓

**Opt. 4 :** Development of collaborative skills

**Q29:** Think-Pair-Share can be implemented in a group of at least ..... students

**Opt. 1 :** 2 ✓

**Opt. 2 :** 3

**Opt. 3 :** 4

**Opt. 4 :** 5

**Q30:** Constructivism is a learning theory based on

**Opt. 1 :** Developmental psychology

**Opt. 2 :** Evolutionary Psychology

**Opt. 3 :** Cognitive Psychology ✓

**Opt. 4 :** Occupational Psychology

**Q31:** Catalysts are used in industry because

**Opt. 1 :** They remove the products from the reaction mixture as the products form

**Opt. 2 :** They increase the rate at which the products are formed ✓

**Opt. 3 :** They increase the yield of products

**Opt. 4 :** They lower the temperature at which the reaction can proceed

**Q32:** Miscible liquids that have different boiling points can be separated by

**Opt. 1 :** Filtration

**Opt. 2 :** Chromatography

**Opt. 3 :** Distillation ✓

**Opt. 4 :** Decanting

**Q33:** A common metal which is highly resistant to corrosion is

**Opt. 1 :** Magnesium

**Opt. 2 :** Aluminum ✓

**Opt. 3 :** Iron

**Opt. 4 :** Copper

**Q34:** Which of the following metal reacts with cold water?

**Opt. 1 :** Sodium ✓

**Opt. 2 :** Copper

**Opt. 3 :** Magnesium

**Opt. 4 :** Iron

**Q35:** The ability of the atoms of an element to combine among themselves is known as

**Opt. 1 :** Condensation

**Opt. 2 :** Catenation ✓

Opt. 3 : Chelation

Opt. 4 : Nitration

**Q36:** Which of the following is not correct regarding the properties of ionic compound?

Opt. 1 : Ionic compounds have high melting and boiling points

Opt. 2 : Ionic compounds exist in solid state

Opt. 3 : Ionic compounds in their molten and aqueous solutions do not conduct electricity ✓

Opt. 4 : Ionic compounds are generally soluble in nature

**Q37:** Who was the first to classify elements into metals and non metals?

Opt. 1 : Meyer

Opt. 2 : Lavoisier ✓

Opt. 3 : Mendeleev

Opt. 4 : Newlands

**Q38:** The period of element with atomic number 20 in the periodic table is

Opt. 1 : 1

Opt. 2 : 2

Opt. 3 : 3

Opt. 4 : 4 ✓

**Q39:** The electronic configuration of a Magnesium atom is

Opt. 1 : 2,8,1

Opt. 2 : 2,8,3

Opt. 3 : 2,8,2 ✓

Opt. 4 : 2,8,4

**Q40:** p-n junction diode can be used as

Opt. 1 : Amplifier

Opt. 2 : Osculator

Opt. 3 : Detector ✓

Opt. 4 : Capacitor

**Q41:** Who discovered presence of negatively charged particle, electron ,in an atom?

Opt. 1 : J J Thomson ✓

Opt. 2 : James Chadwick

Opt. 3 : Ernest Rutherford

Opt. 4 : Niels Bohr

**Q42:** If 0.5 A current flows through an electric heating device connected to 230V supply, what is the quantity of charge that flows through the circuit in 5 minutes?

Opt. 1 : 5 C

Opt. 2 : 150 C ✓

Opt. 3 : 15 C

Opt. 4 : 1500 C

**Q43:** An instrument used to detect the presence of electric charge on a body


Opt. 1 : Galvanoscope

Opt. 2 : Eletroform

Opt. 3 : Electroscop 

Opt. 4 : Electric Charger

**Q44:** Clouds appears white due to


Opt. 1 : water droplet scatter all wavelength 

Opt. 2 : water in frozen condition look icy white

Opt. 3 : fog is formed around clouds

Opt. 4 : water droplet absorb all wavelength

**Q45:** The audible range of sound for human is

Opt. 1 : 20 Hz to 20000 Hz 


Opt. 2 : 20 Hz to 200000 Hz

Opt. 3 : 20 Hz to 2000 Hz

Opt. 4 : 2 Hz to 20 Hz

**Q46:** Reverberation of sound is due to


Opt. 1 : Multiple Refraction

Opt. 2 : Multiple Diffraction 

Opt. 3 : Multiple Reflection

Opt. 4 : Multiple Polarization

**Q47:** The gravitational force between two objects is  $F$ . If masses of both objects are halved without changing the distance between them, then the gravitational force would become

Opt. 1 :  $F/4$  

Opt. 2 :  $F$

Opt. 3 :  $F/2$

Opt. 4 :  $2F$

**Q48:** A body whose mass and weight were already determined at Equator is moved to Pole. In this context, choose the correct statement from the following

Opt. 1 : Mass does not change, weight is maximum 


Opt. 2 : Mass does not change, weight is minimum

Opt. 3 : Both weight and mass are maximum

Opt. 4 : Both weight and mass are minimum

**Q49:** Which color is seen at the upper edge of a rainbow?

Opt. 1 : Violet

Opt. 2 : Red 

Opt. 3 : Indigo

Opt. 4 : Orange

**Q50:** When a semiconductor is heated its resistance

Opt. 1 : Decreases ✓

Opt. 2 : Increases

Opt. 3 : Remains Unchanged

Opt. 4 : Nothing is definite