

**Subject : EDU-15.7 Advanced Studies : Curriculum and Pedagogic Courses -  
Mathematics Education |**

**Q1:** Discriminating power of a tool is ensured by \_\_\_\_\_

**Opt. 1 :** question wise analysis

**Opt. 2 :** marking scheme

**Opt. 3 :** length of the test

**Opt. 4 :** observing difficulty level of questions ✓

**Q2:** Which among the following is not an essential trait of teacher professionalism ?

**Opt. 1 :** autonomy

**Opt. 2 :** decision making capacity

**Opt. 3 :** excellent academic record ✓

**Opt. 4 :** theoretical knowledge

**Q3:** The prerequisite needed to teach volume of a cone is \_\_\_\_\_

**Opt. 1 :** volume of cylinder ✓

**Opt. 2 :** area of circle

**Opt. 3 :** surface area of cylinder

**Opt. 4 :** perimeter of circle

**Q4:** Which is not an important commitment area for teachers?

**Opt. 1 :** commitment to the learners

**Opt. 2 :** commitment to the society

**Opt. 3 :** commitment to the basic human values

**Opt. 4 :** commitment to the parents ✓

**Q5:** Which is not a teacher competence suggested by NCTE ?

**Opt. 1 :** evaluative competence

**Opt. 2 :** management competence

**Opt. 3 :** academic competence ✓

**Opt. 4 :** competence related to working with parents

**Q6:** Which among the following statements is most correct ?

**Opt. 1 :** Reflective practice enhances professionalism ✓

**Opt. 2 :** Reflective practice enhances teaching skills

**Opt. 3 :** Reflective practice enhances knowledge level

**Opt. 4 :** Reflective practice enhances academic excellence

**Q7:** Who is the originator of experiential learning ?

**Opt. 1 :** Kolb ✓

**Opt. 2 :** Piaget

**Opt. 3 :** Pavlov

**Opt. 4 :** Skinner

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**Q8:** Who is associated with behaviourist approach ?

**Opt. 1 :** Thorndike ✓

**Opt. 2 :** Piaget

**Opt. 3 :** Bruner

**Opt. 4 :** Vygotsky

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**Q9:** The zone of Proximal Development is proposed by \_\_\_\_\_

**Opt. 1 :** Vygotsky ✓

**Opt. 2 :** Piaget

**Opt. 3 :** Bruner

**Opt. 4 :** Wood

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**Q10:** Learning according to behaviourist approach is \_\_\_\_\_

**Opt. 1 :** permanent change in behaviour through experience ✓

**Opt. 2 :** a change in behaviour in the classroom

**Opt. 3 :** personal interpretation of experience

**Opt. 4 :** the bondage of stimulus and response

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**Q11:** Which among the following is a principle ?

**Opt. 1 :** A triangle is a three sided figure

**Opt. 2 :** A triangle has three angles

**Opt. 3 :** A triangle has three vertices

**Opt. 4 :** The sum of the angles in a triangle is 180 ✓

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**Q12:** The pictorial representation of a continuous data can be done by \_\_\_\_\_

**Opt. 1 :** bar diagram

**Opt. 2 :** pie diagram

**Opt. 3 :** line graph

**Opt. 4 :** histogram ✓

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**Q13:** Which is the most incorrect statement ?

**Opt. 1 :** A concept has a definition

**Opt. 2 :** A concept has a name

**Opt. 3 :** A concept is a universally accepted statement ✓

**Opt. 4 :** A concept is a generalized idea

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**Q14:** If a quadratic equation  $ax^2 + bx + c = 0$  has equal solutions,

**Opt. 1 :** the discriminant is zero ✓

**Opt. 2 :** the discriminant is  $> 0$

**Opt. 3 :** the discriminant is  $< 0$

**Opt. 4 :** the discriminant is  $> \text{ or } = 0$

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**Q15:** Which tool can be used for grading the students based on their performance?

**Opt. 1 :** achievement test ✓

**Opt. 2 :** diagnostic test

**Opt. 3 :** aptitude test

**Opt. 4 :** attitude scale

**Q16:** Which among the following tools is used to identify the deficiency of the learner ?

**Opt. 1 :** achievement test

**Opt. 2 :** diagnostic test ✓

**Opt. 3 :** summative evaluation

**Opt. 4 :** formative valuation

**Q17:** Which is not suited to Rubrics ?

**Opt. 1 :** rubrics are descriptive tool

**Opt. 2 :** rubrics are evaluative tool

**Opt. 3 :** rubrics are a self assessment tool

**Opt. 4 :** rubrics uses standardized evaluation criteria ✓

**Q18:** Which among the following is not a material of the portfolio ?

**Opt. 1 :** project report

**Opt. 2 :** diary extracts

**Opt. 3 :** completed assignments

**Opt. 4 :** attendance sheets ✓

**Q19:** Which among the following is not a function of C.C.E ?

**Opt. 1 :** helps to diagnose the weakness of students

**Opt. 2 :** helps to ascertain the interest of students

**Opt. 3 :** helps the teacher to provide immediate guidance

**Opt. 4 :** helps the teacher to manage the class ✓

**Q20:** Which is not a phase of Corrective diagnosis ?

**Opt. 1 :** classification

**Opt. 2 :** finding the nature of difficulty

**Opt. 3 :** inferring the causes of difficulty

**Opt. 4 :** error analysis ✓

**Q21:** Which is an aspect of a diagnostic test?

**Opt. 1 :** small content area ✓

**Opt. 2 :** grading and promotion

**Opt. 3 :** strict time limit of testing

**Opt. 4 :** choice of questions

**Q22:** Which is not associated with revised Bloom's Taxonomy?

Opt. 1 : knowledge dimensions

Opt. 2 : taxonomy table

Opt. 3 : cognitive process dimension

Opt. 4 : synthesis ✓

**Q23:** Who is associated with programmed learning ?

Opt. 1 : Skinner ✓

Opt. 2 : Thorndike

Opt. 3 : Pavlov

Opt. 4 : Bruner

**Q24:** Which is not a principle of programmed instruction?

Opt. 1 : self pacing

Opt. 2 : small steps

Opt. 3 : high error rate ✓

Opt. 4 : active responding

**Q25:** Which is not associated with E-content?

Opt. 1 : self evaluation

Opt. 2 : video shooting

Opt. 3 : learner friendly situation

Opt. 4 : teacher centered pedagogy ✓

**Q26:** Mathematical Olympiad is conducted by \_\_\_\_\_

Opt. 1 : NCTE

Opt. 2 : UGC

Opt. 3 : NCERT

Opt. 4 : NBHM ✓

**Q27:** Which is not a feature of co-operative learning ?

Opt. 1 : developing critical thinking ✓

Opt. 2 : positive interdependence

Opt. 3 : group process

Opt. 4 : developing social skill

**Q28:** Which is not a characteristic of Brainstorming ?

Opt. 1 : makes pupil creative

Opt. 2 : makes pupil innovative

Opt. 3 : makes pupil active thinkers

Opt. 4 : makes pupil critical thinkers ✓

**Q29:** Role playing can be used as \_\_\_\_\_

Opt. 1 : technique of teaching ✓

Opt. 2 : approach of teaching

Opt. 3 : teacher training method

Opt. 4 : method of assessment

**Q30:** Which is not a characteristic of problem solving method?

Opt. 1 : problem shall be a stimulating situation

Opt. 2 : problem shall be challenging to the students

Opt. 3 : problem shall be a hypothetical situation ✓

Opt. 4 : problem shall be an educationally significant situation

**Q31:** Which among the following assumptions is suited to Project method?

Opt. 1 : correlation between different branches of knowledge ✓

Opt. 2 : every branch of knowledge is independent

Opt. 3 : pupils learn independently

Opt. 4 : learning shall be in the classroom

**Q32:** Which is not associated with heuristic method?

Opt. 1 : role of discoverer

Opt. 2 : thought provoking questions

Opt. 3 : independent thinking

Opt. 4 : suitability with all topics ✓

**Q33:** Analytic method proceeds from \_\_\_\_\_

Opt. 1 : unknown to known ✓

Opt. 2 : simple to complex

Opt. 3 : known to unknown

Opt. 4 : particular to general

**Q34:** Which is not a characteristic of a constructivist lesson plan?

Opt. 1 : scaffolding

Opt. 2 : artifacts

Opt. 3 : evaluation questions ✓

Opt. 4 : discussion points

**Q35:** Behaviourist approach is characterised by \_\_\_\_\_

Opt. 1 : Observable behaviour change ✓

Opt. 2 : intrinsic motivation

Opt. 3 : knowledge construction

Opt. 4 : scaffolding

**Q36:** Lesson plans do not include \_\_\_\_\_

Opt. 1 : questions to be asked in the classroom

Opt. 2 : audiovisual aids

Opt. 3 : assignments

Opt. 4 : teaching skills to be exhibited ✓

**Q37:** Lesson planning enables a teacher to \_\_\_\_\_

**Opt. 1 :** adjust the resources

**Opt. 2 :** select the most suitable learning experience ✓

**Opt. 3 :** prepare question bank

**Opt. 4 :** plan co-curricular works

**Q38:** Which is a component of stimulus variation ?

**Opt. 1 :** teacher gesture ✓

**Opt. 2 :** refocusing

**Opt. 3 :** increasing critical awareness

**Opt. 4 :** clarity

**Q39:** Microteaching was introduced by \_\_\_\_\_

**Opt. 1 :** D W Allen ✓

**Opt. 2 :** Thorndike

**Opt. 3 :** Passi

**Opt. 4 :** Skinner

**Q40:** Which among the following is not an objective type item?

**Opt. 1 :** multiple choice

**Opt. 2 :** match the following

**Opt. 3 :** short answer ✓

**Opt. 4 :** true or false item

**Q41:** Which among the following is a merit of objective type item?

**Opt. 1 :** Greater reliability ✓

**Opt. 2 :** chance of guessing answer

**Opt. 3 :** easiness in the construction

**Opt. 4 :** measures complex objectives

**Q42:** Standardized achievement test has -

**Opt. 1 :** Localized objectives

**Opt. 2 :** Flexible procedure

**Opt. 3 :** Prefixed norms ✓

**Opt. 4 :** Unknown reliability

**Q43:** Which is not associated with achievement test ?

**Opt. 1 :** Marking Scheme

**Opt. 2 :** Blue Print

**Opt. 3 :** Remedial Measure ✓

**Opt. 4 :** Question Wise Analysis

**Q44:** Which is not associated with content competence ?

**Opt. 1 :** Analyse the needs of students

**Opt. 2 :** Identify the content enrichment needs of students

**Opt. 3 :** Understand constitutional provisions ✓

**Opt. 4 :** Identify tools for learning

**Q45:** Which is a means for continuous professional development ?

**Opt. 1 :** Pre-service training

**Opt. 2 :** Online courses ✓

**Opt. 3 :** Student evaluation

**Opt. 4 :** Awards and endowments

**Q46:** Which among the following is not a role of a teacher?

**Opt. 1 :** Researcher

**Opt. 2 :** Lifelong learner

**Opt. 3 :** Administrator ✓

**Opt. 4 :** Reflective practitioner

**Q47:** This is not an essential characteristic of professionalism.

**Opt. 1 :** Practice of ethics

**Opt. 2 :** Updated knowledge

**Opt. 3 :** Decision making capacity

**Opt. 4 :** Good communication ✓

**Q48:** This is not a characteristic of gifted children.

**Opt. 1 :** Ask intelligent questions

**Opt. 2 :** Explore in depth

**Opt. 3 :** Help other students ✓

**Opt. 4 :** Comprehend ideas quickly

**Q49:** Mastery learning model belongs to -

**Opt. 1 :** Personal family

**Opt. 2 :** Information processing family

**Opt. 3 :** Behavior system family ✓

**Opt. 4 :** Social family

**Q50:** Which among the following is a goal of concept attainment model?

**Opt. 1 :** Development of cognitive structure

**Opt. 2 :** Development of memory

**Opt. 3 :** Development of creative thinking

**Opt. 4 :** Development of inductive reasoning ✓