

**EDU 15. 7 Advanced Studies ; Curriculum and Pedagogic courses –  
Mathematics Education.**

1. Which among the following is known as Ramanujan number?
  - A) 1792
  - B) 7129
  - C) 1729
  - D) 1279
  
2. “One gets pleasure in solving mathematical problems”. Which value of mathematics is represented in this statement?
  - A) Aesthetic Value
  - B) Intellectual Value
  - C) Disciplinary Value
  - D) Social Value
  
3. The process of induction is based on the maxim
  - A) From particular to general
  - B) From general to particular
  - C) From complex to simple
  - D) From abstract to concrete
  
4. Creativity and originality of ideas is developed in
  - A) Home work
  - B) Written work
  - C) Drill work
  - D) Brain storming
  
5. The expansion of VLE is
  - A) Virtual Living Environment
  - B) Visual Learning Environment
  - C) Visual Living Environment
  - D) Virtual Learning Environment
  
6. Observable and measurable behavioural changes are known as
  - A) Aims
  - B) Objective
  - C) Specifications
  - D) Goals

7. Which among the following is a specification of 'applying'?
- A) Exemplifying
  - B) Executing
  - C) Explaining
  - D) Interpreting
8. The most difficult mental function in the revised taxonomy is .....
- A) Attributing
  - B) Retrieving
  - C) Differentiating
  - D) Creating
9. The method of teaching which places the pupils as far as possible in the attitude of a discoverer.
- A) Analytic Method
  - B) Heuristic Method
  - C) Project Method
  - D) Deductive Method
10. Dalton plan was developed by .....
- A) John Dewey
  - B) Helen Parkhurst
  - C) Francis Bacon
  - D) Dr.Kilpatrick
11. The book 'Sidhanta Siromani' is written by .....
- A) Bhaskaracharya
  - B) Aryabhata
  - C) Brahmagupta
  - D) Ramanujan
12. The idea of PCK was first put forward by
- A) Carl Rogers
  - B) Charles Babbage
  - C) Lee Shulman
  - D) William Henry

13. A scaled down teaching process is

- A) Peer teaching
- B) Micro teaching
- C) Team teaching
- D) Co-operative learning

14. An example of e-learning material is

- A) Picture
- B) Chalk board summary
- C) Flannel cut-out
- D) Power Point

15. Figures having the same shape are

- A) Similar figures
- B) Congruent figures
- C) Regular figures
- D) Congruent triangles

16. To concretise an abstract idea in Mathematics, a teacher can use

- A) Text book
- B) Work book
- C) Teaching aid
- D) Lesson plan

17. Prerequisite refers to

- A) The knowledge of the teacher before entering into a topic
- B) The knowledge of the learner before entering into a topic
- C) The first step in content analysis
- D) The first step in pedagogic analysis

18. Pedagogy means

- A) Science of learning
- B) Science of teaching
- C) Analysis of curriculum
- D) Breaking down of content

19. Mental image of an object is

- A) Term
- B) fact
- C) Concept
- D) Principle

20.  $\sin 19^\circ \cos 11^\circ + \cos 19^\circ \sin 11^\circ$

- A)  $\frac{3}{2}$
- B)  $\frac{1}{2}$
- C)  $\sin 11^\circ$
- D)  $\cos 11^\circ$

21. A component of stimulus variation is

- A) Arouse curiosity
- B) Fluency
- C) Teacher gesture
- D) Concluding statement

22. The latest Kerala Curriculum Framework was developed in the year

- A) 2005
- B) 2007
- C) 2009
- D) 2010

23. A free web application that educators can use to create effective online learning sites is

- A) MOODLE
- B) Edublog
- C) Teacher tube
- D) Hot Potatoes

24. Action research is ordinarily concerned with problems that are

- A) General Nature
- B) Consisting universal truth
- C) Have long range implications
- D) Of immediate concern and call for immediate solutions

25. Nuffield mathematics project is for the age group of .....

- A) 5-13
- B) 11-15
- C) 16-18
- D) 7-10

26. The critical pedagogy was put forwarded by:
- A) Peter Mc Lawren
  - B) Michael Apple
  - C) Paulo Freire
  - D) Bell Hooks
27. The man made resource that helps a student to develop his abstract thinking from concrete visualization is:
- A) Mathematics library
  - B) Mathematics club
  - C) Mathematics exhibition
  - D) Mathematics laboratory
28. Which of the following is a popular search engine that helps to collect information from website
- A) [www.yahoo.com](http://www.yahoo.com)
  - B) [www.google.com](http://www.google.com)
  - C) [www.bing.com](http://www.bing.com)
  - D) All the above
29. Totality of student experiences that occur in the educational process is
- A) Syllabus
  - B) Content
  - C) Course
  - D) Curriculum
30. Which electronic media helps immediate interaction among the participants
- A) Video conferencing
  - B) E-mailing
  - C) Transfer of files
  - D) Blogging
31. Which is NOT an objective of mathematics club is
- A) Discussion and debates
  - B) Entertainment
  - C) Celebration of historically relevant days of mathematics
  - D) All students are the members of the club

32. A frame work for the integration of technology within teaching is:
- A) Content Knowledge
  - B) Pedagogic Knowledge
  - C) Pedagogic Content Knowledge
  - D) Techno Pedagogic Content Knowledge
33. The family of Models focus on intellectual capacity of the learner is:
- A) Information Processing family
  - B) Personal family
  - C) Social family
  - D) Behavioural modification family
34. The free and safe platform for teachers to connect, develop, collaborative projects and share ideas using ICT is related with
- A) Teleconference
  - B) E-twinning
  - C) INFLIBNET
  - D) ERIC.
35. Which component of the model guide the teacher in, how to regard the learner and how to respond to what he does.
- A) Syntax
  - B) Social system
  - C) Principle of reaction
  - D) Support system
36. Who is the founder of e-mail?
- A. Tiny Tomilson
  - B. Larry Page
  - C. Sergy Brin
  - D. Shiva Ayyadurai
37. In India, internet services started on
- A) 15<sup>th</sup> Aug 1995
  - B) 15th Aug 2000
  - C) 15th Aug 1985
  - D) 15th Aug 1990

38. Programmed instruction emerged out of the research conducted by
- A) B.F.Skinner
  - B) Jean Piaget
  - C) Norman.A.Crowder
  - D) Paulo Fiere
39. What is the first phase of inquiry training model?
- A) Encounter with the problem
  - B) Verification
  - C) . Experimentation
  - D) . Formulation of explanation
40. Fostering the ability to think logically is one of the focus of which Family of models.
- A) Personal Family
  - B) Information Processing Family
  - C) Social Interaction Family
  - D) Behaviour Modification Family
41. If the discriminant of a quadratic equation is less than zero, then its roots are
- A. Real
  - B. Equal
  - C. Distinct
  - D. No real roots
42. Through which research the development of theory and the discovery of fundamental facts are accomplished.
- A) Basic Research
  - B) Applied Research
  - C) Action Research
  - D) Evaluation Research
43. According to Bruner, how many elements do a concept has?
- A) 3
  - B) 4
  - C) 5
  - D) 6

44. Which of the following evaluation is conducted during the teaching-learning process.
- A) Formative
  - B) Summative
  - C) Criterion referenced
  - D) Norm referenced
45. Highest level of cognitive domain is .....
- A) Application
  - B) Analysis
  - C) Evaluation
  - D) Synthesis
46. Which among the following supplements classroom teaching
- A) Home work
  - B) Drill work
  - C) Oral work
  - D) Written work
47. Name the experimental project started by the government of Kerala Using EDUSAT
- A) QIP
  - B) SPC
  - C) ASAP
  - D) VICTERS
48. E-learning is:
- A) Virtual education opportunities
  - B) Digital collaboration
  - C) Web/computer based learning
  - D) Power point learning
49. Which of the following is a free online assessment tool used to assess competency of learner?
- A) Google Mathematics fair
  - B) Online Quiz maker
  - C) K.T.E.T
  - D) T.E.T.

50. The consistency of evaluation results is measured by:

- A) Objectivity
- B) Predictability
- C) Reliability
- D) Usability

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