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SECTION – 1

CHILD DEVELOPMENT AND PEDAGOGY

There are 30 questions in all this section.

All questions are compulsory.

1. Which of the following may not be expected from a teacher to keep in mind while respecting individual difference?

- A. Ability grouping
- B. Adjusting the curriculum
- C. Leaving Children for self study
- D. Adjusting the methods of teaching

2. When both chronological and mental age of Poonam is 9 years, her intelligence category may be considered as

- A. Superior
- B. Sub-average
- C. Average
- D. Genius

3. Which of the following is the characteristics of Autism?

- A. Poor Socialization
- B. Stereotypic behavior
- C. Poor Communication
- D. All of the above

4. The process of an individual's capacities quantitatively should be termed as

- A. Development
- B. Growth
- C. Equilibrium
- D. Maturation

5. For the proper development of a child at adolescent stage, parents and teachers can do the following : (which one?)

- A. Rendering proper gender education
- B. Providing suitable environment
- C. Arranging guidance and counseling services (if required)
- D. All of the above

6. Which of the following is not related to Action Research?

- A. Action research helps in theory building
- B. It enables us to solve practical problem.
- C. Focus on problem that are of immediate concern.
- D. Offers formation feedback such that aims and methodology are open to variation.

7. A teacher is going to apply the principle of Thorndike's theory in the classroom. What he/she should not apply from the following?

- A. Children should be made ready or motivated properly for learning a task.
- B. Children should be oriented to a discovery approach towards learning new things.
- C. Sufficient practice or drill work should be carried out.
- D. Teacher should try to make use of rewards as properly as possible.

8. _____ is the inability to distinguish between one's own perspective and other's perspective in early childhood.

- A. Centricism
- B. Ego centricism
- C. Animism
- D. None of the above

9. "When someone fails repeatedly to overcome weaknesses and achieve some mastery or simply places excessive emphasis on some particular inferiority." Who illustrated the above statement as 'inferiority complex'?

- A. Carl Gustav Jung
- B. Sigmund Freud
- C. Karen Horney
- D. Alfred Adler

10. The highly efficient form of learning approach, on which Bandura and Walters focused is

- A. Reward and Punishment
- B. Observational Learning or Imitation
- C. Self-actualization
- D. None of the above

11. As per Right to Education Act, which of the following is not a role of teacher?

- A. Complete entire curriculum within the specified time.
- B. Teacher shall engage himself or herself in private tuition.
- C. Maintain regularity and punctuality in attending school.
- D. Assess the learning ability of each child and accordingly supplement additional instructions.

12. According to Freud's recommended personality structure, which of the following would satisfy its fundamental urges immediately and reflexively as they arose, without regard to rules, the reality of life or morals of any kind?

- A. Super ego
- B. Both ego and Super ego
- C. Id
- D. Ego

13. In which of the following technique, the child earn objects, which they can exchange for desirable items, services or privileges?

- A. Token economy
- B. Shaping
- C. Extinction
- D. Covert Sensitization

14. Students encountered many conflicting situations during their adjustment process. For example a student wants to admit his mistake in front of the teacher but at the same time he is afraid of being punished by the teacher. It is best explained by

- A. Approach - Approach Conflicting Situation.
- B. Avoidance - Avoidance Conflicting Situation.
- C. Approach - Avoidance Conflicting Situation.
- D. None of the above

15. A 5 year old child has a general lack of responsiveness to others, serious deficiency in communication and unusual repetitive behavior. Such characteristics are the sign of

- A. hearing impairment
- B. Scholastic backwardness
- C. Infantile Autism
- D. Learning disability

16. A behavior pattern involving self-starvation that often arises in adolescence and especially prevalent among girls is known as

- A. Anorexia nervosa
- B. Delirium tremens
- C. Autism
- D. Down Syndrome

17. Which of the following term refers to farsightedness?

- A. Optic Atrophy
- B. Astigmatism
- C. Hyperopia
- D. Refraction

18. Insightful theory of learning is given by

- A. Thorndike
- B. Gardener
- C. Kohler
- D. Hull and Tollman

19. Which of the following body regulate the training policies and programmes in the field of rehabilitation of persons with disabilities in India?

- A. National Council of Teacher Education

- B. National University of Education Planning and Administration
- C. National Council of Education Research and Training
- D. Rehabilitation Council of India

20. "At a particular stage children begin to use primitive reasoning and want to know the answer of all sorts of questions." Piaget called this "intuitive". As per Piaget, which of the following stage, he means?

- A. Concrete operation
- B. Pre-operation
- C. Formal operation
- D. None of the above

21. Most of the children speak first meaningful word at the age of

- A. 3 months
- B. 6 months
- C. 35-40 months
- D. 10-13 months

22. Who is the father of "Theory of Multiple Intelligence"?

- A. Vygotsky
- B. Bruner
- C. Alfred Binet
- D. Gardener

23. Who has given more stress on the Philosophy of Social Constructivism?

- A. Vygotsky
- B. Piaget
- C. Dewey
- D. Kohlberg

24. Which of the following is not an example of assistive technology for visual impairment?

- A. Large print book
- B. Magnifying computer book
- C. Speech synthesizer
- D. Supplement to text book

25. Hearing loss is measured in terms of

- A. Hertz
- B. Decibels
- C. Watt
- D. Pound

26. Which of the following is an example of fine motor skills?

- A. Climbing
- B. Hopping
- C. Running
- D. Writing

27. Meaning of Schema is

- A. Chunking Mechanism
- B. Learning Techniques
- C. Organized packets of information stored in long term memory
- D. Defence Mechanism of body

28. Information processing theories are known to break intelligence down into various basic skills that people employ to take in information, process it and then use it to reason and solve problems. Who is best known for propounding such theory?

- A. Jerome Bruner
- B. Jean Piaget
- C. J.P. Guilford
- D. Robert Stenberg

29. Select the 'educable' group based on different level of IQ

- A. 70 to 90
- B. 30 to 50
- C. 50 to 70
- D. Below 50

30. The unit of heredity is

- A. Chromosome
- B. Fertilized egg
- C. Gene
- D. Zygote

SECTION – II

LANGUAGE – I ENGLISH

There are 30 questions in all this Section.

All questions are compulsory.

31. Which of the following sentences has the correct structure of question?

- A. Do you have got a car?
- B. Have you got a car?
- C. Did you have got a car?
- D. Did you got a car?

32. The passive voice form of the sentence – 'Thieves broke into my house' will be

- A. My house was broken into by thieves.
- B. Thieves were broken into my house.
- C. My house had been broken into by thieves.
- D. My house was broken by thieves.

33. Which is the correct option?

- A. Raghu is the tallest of any other boys in my class.
- B. Raghu is tallest boy out of any boy in my class.
- C. Raghu is the tallest boy in my class.
- D. Raghu is the more tall boy in my class.

34. The passive voice form of the sentence, "Who wrote this poem?" Will be

- A. By whom had this poem been written?
- B. By whom has this poem been written?
- C. By whom was this poem written?
- D. By whom was this poem being written?

35. Which of the following sentences has the correct structure of question?

- A. Why hadn't she attend the meeting?
- B. Why didn't she attend the meeting?
- C. Why didn't she attended the meeting?
- D. Why haven't she attended the meeting?

36. 'The material should be according to the child's mental age, mental ability, grade and level'. Which principle of teaching is involved in this statement?

- A. Concreteness
- B. Accuracy and correctness
- C. Selection and Gradation
- D. Proportion

37. _____ means equal treatment to various components of linguistic learning.

- A. Habit formation
- B. Interest
- C. Multiple line
- D. Proportion

38. Which principle of teaching English creates a zeal to learn something new in language?

- A. The principle of proper order
- B. The principle of habit formation
- C. The principle of motivation
- D. The principle of selecton

39. The method emerged as a reaction of the various demerits of The Grammar-translation method is _____.

- A. Bilingual Method
- B. Play and Learn Method
- C. Direct Method
- D. The Sentence Method

40. Which method is also known as Natural Method of teaching English as second language?

- A. Substitution Method
- B. Grammar-translation Method
- C. Bilingual Method
- D. Direct Method

41. Choose the productive skill from the following

- A. Listening
- B. Reading
- C. Speaking
- D. Reading aloud

42. What do people read for pleasure?

- A. Literature

- B. Labels
- C. Report
- D. Dictionaries

43. Which technique of reading is used to get at the gist of the text?

- A. Skimming
- B. Library
- C. Scanning
- D. Aloud

44. Which teaching aid can be used to teach listening comprehension?

- A. Text book
- B. Word cards
- C. Tape recorder
- D. Picture cards

45. What can be used as props for dialogues in order to teach new lexical or structural items?

- A. Text book
- B. Reference book
- C. Realia
- D. Dictionary

46. 'The testee has to replace the underlined word with correct option.' Which skill is tested in this statement?

- A. Reading
- B. Listening
- C. Writing
- D. Hearing

47. _____ measures a student's achievement in relation to a specific task which he will later be required to perform.

- A. Productive test
- B. Proficiency test
- C. Integrative test
- D. Objective test

48. _____ test measures the language skill naturally.

- A. MCQ type

- B. Subjective
- C. Objective
- D. Reading

49. What is the cause of failure in learning a second language?

- A. Home assignment
- B. Over simplification of target language
- C. Diagnostic test
- D. Reading strategy

50. Grammatical Errors refer to _____.

- A. Inappropriate words
- B. Spelling errors
- C. Lexical errors
- D. Errors in syntax

Read the passage carefully and answer the questions that follow:

Prose Passage-I (Q. Nos. 51 to 55)

We pollute our environment by throwing different kinds of waste carelessly. Methods of waste reduction, waste reuse and recycling are the preferred options for managing waste. This problem is more serious in cities because sometimes it is difficult to find a proper place to dump the waste. Garbage bins overflow in big cities. This waste begins to rot after few hours and stinks. It becomes a breeding place for harmful bacteria which would spread ill health and diseases like malaria, typhoid, cholera and dengue, etc.

51. Which of the following words is a synonym for 'dump'?

- A. dispose of
- B. cater
- C. flourish
- D. deck

52. The antonym of 'reduction' is

- A. promotion
- B. diminution

- C. induction
- D. decomposition

53. Which of the following words is correctly spelt?

- A. Fartile
- B. Furtile
- C. Fertile
- D. Fortile

54. The verb 'pollute' can give us the noun

- A. pollutation
- B. pollution
- C. pollutable
- D. polluted

55. Find the correct one word for the phrase given below:

- A. garbage
- B. recycling
- C. managing waste
- D. breeding

Read the passage and answer the questions that follow:

Prose Passage – II.(Q.Nos. 56 to 60).

I have access to safe water and to avoid water crisis in the near future is necessary that correct policies and schemes are made. Water conservation and its proper management can also be considered as one of the effective steps to avoid water crisis. India has a long tradition of water harvesting. Harvesting rain water is one of the most effective ways to tackle the water crisis. The basic principle is, to collect the rain water where it falls, use and let it seep into the ground. In this Rashtrapati Bhawan is leading the way. It is one of the few buildings in Delhi that conserves rain water. Aizawl in Mizoram meets most of water needs through roof top harvesting.

56. Which of the following options is an example of 'demonstrative pronoun'?

- A. This
- B. I
- C. Its
- D. Then

57. I have access to safe water.'

The underlined verb- 'have' is an example of

- A. An auxiliary verb
- B. Verb in simple present
- C. modal auxiliary verb
- D. verb in present perfect

58. Which of the following has the three degrees of the adjective in their correct form?

- A. Near, more near, nearest
- B. correct, more correct, correctest
- C. few, fewer, the most few
- D. effective, more effective, most effective

59. In the phrase 'water crisis in the near future', the determiner used is

- A. water
- B. crisis
- C. the
- D. near

60. Conjunctions in the passage are

- A. and, that
- B. as, of
- C. where, let
- D. most, through

SECTION – III

LANGUAGE – II ENGLISH

There are 30 questions in all in this Section.

All questions are compulsory.

61. Identify the word in which the end sound is different from the other words.

- A. Concept
- B. Percept
- C. Sect
- D. Conceit

62. Pick out the correct transcription of the word 'generic'.

- A. /znrik
- B. /genrik
- C. /dginrik
- D. /dza'nerik

63. Taking into account the principles of language teaching

- A. Teaching can be difficult
- B. Desired goal of teaching English language can be achieved
- C. Only linguistic habits can be developed
- D. Only learning of English as a second language will be enhanced

64. Communicative Approach to English Language enable the teacher to;

- A. Exploit Sound psycholinguistic principles
- B. Exploit sound educational principles
- C. Exploit sound psycholinguistic and educational principles
- D. None of the above

65. In Communicative Approach to teaching the teacher must know why it is

- A. Better to tolerate errors in students' attempt to express their selves
- B. Not to allow students' to express their selves
- C. Not to tolerate errors in students' attempt to express their selves
- D. Better to note down the errors

66. One of the language disorders is found when;

- A. learner is missing the class
- B. learner is speaking in class

C. learner speaks in short and fragmented phrases

D. learner speaks the full sentences

67. Language disorder means when a child has

- A. Difficulty in understanding the meaning
- B. Difficulty in expressing his/her thought
- C. Trouble producing some sounds accurately
- D. Either or both (A) & (B)

68. Articulation error occurs due to

- A. Formed speech habit
- B. Slurring over and clipping sounds
- C. Learner's intelligence
- D. Learner give importance to stress & intonation

69. Remedial teaching involves

- A. Improvement of learning skill
- B. Rectifying a particular problem area
- C. Either (A) and/or (B)
- D. Neither (A) nor (B)

70. Communicative approach to Evaluation stresses on;

- A. Content relevancy & Vocabulary
- B. Fluency & Flexibility
- C. Both (A) & (B)
- D. Neither (A) nor (B)

71. Recent scheme of evaluation outlined by CBSC is

- A. Comprehensive & Continuous Evaluation
- B. Continuous & Comprehensive Evaluation
- C. Continuous & Communicative Evaluation
- D. Communicative & Continuous Evaluation

72. Remedial teaching should be carried out after identification of

- A. Text and test
- B. Text and learning
- C. Malady on language test and its causes
- D. Merits of teacher

73. Remedial program is designed keeping in mind

- A. Each student's strength
- B. Each student's weakness
- C. Each student's strength and weakness
- D. None of the above

74. Remedial teaching is a

- A. Preparation of teaching
- B. Pre-teaching program
- C. Systematic process
- D. Random process

75. The basic requirement of a language proficiencies test is that it must be

- A. Reliable
- B. Complex
- C. Ambiguous
- D. Simple

Passage:

In spite of rigorous precautions against accidents, many people are injured every year in factories and elsewhere. In addition, some people are born with physical disabilities. They are either blind or deaf or in some way deformed from birth. Upto quite recent times, little planned action was taken to fit handicapped people for employment. A number of charitable organizations tried to help them in cases of hardship; but few seriously held the idea that these people might still have abilities in other directions.

76. Which one of the following is the most appropriate title for the passage?

- A. Rehabilitation of the physically challenged

- B. Physical disabilities
- C. Accidents
- D. Planned action

77. In the above paragraph, 'In addition' indicates

- A. Emphasis
- B. Addition
- C. Sequence
- D. Alternative

78. Either those children or may own son _____ picked all the flowers.

- A. have
- B. has
- C. is
- D. are

79. In the above passage the author wants to convey

- A. many people in the world suffer from physical disabilities.
- B. precautions are not taken against accidents.
- C. people who are physically challenged are fit for employment.
- D. physically challenged people have no scope.

80. Noisy children are a real headache. Two aspirins will make a headache go away. Therefore, two aspirins will make noisy children go away.

Above lines contain

- A. The fallacy of equivocation
- B. The fallacy of false analogy
- C. The fallacy of hasty generalization
- D. The fallacy of composition

81. Extract:

Your love and pity doth the

Impression fill

Which vulgar scandal stamp'd upon

My brow;

For what care I who calls me well

or ill,

So you o'ev-green my bad, my good allow
The rhyme scheme of the extract is

- A. abab
- B. aabb
- C. abba
- D. abca

82. 'One proven way to beat an enemy is find his Achilles heel'. What does finding Achilles heel mean?

- A. Amulet
- B. Weak spot
- C. Strong point
- D. Secret strategy

83. The Wolf with its belly stitched full of big pebbles;
Nibelung wolves barbed like black pine forest

Against a red sky, over blue snow.....

Which figure of speech is used in the above extract?

- A. Metaphor
- B. Simile
- C. Alliteration
- D. Assonance

84. Which one of the following is sometimes called 'vocalic rhyme'?

- A. Assonance
- B. Personification
- C. Alliteration
- D. Rhyme

85. Which figure of speech is common in tongue-twisters, jingles and non-sense verse?

- A. Alliteration
- B. Simile
- C. Rhyme
- D. Metaphor

86. It's a beautiful day, I _____ have brought this umbrella.

- A. Mustn't

- B. needn't
- C. shouldn't
- D. couldn't

87. You should _____ your phone call with an email or a letter.

- A. follow on
- B. follow up
- C. take on
- D. show on

88. "What time shall we go shopping?"
"Let's see how the weather looks and _____." Insert the correct idiom.

- A. raining cats and dogs
- B. play it by ear
- C. turn a blind eye
- D. call it a day

89. Sonnets usually are in

- A. free verse
- B. iambic pentameters
- C. iambic trimester
- D. verso tronco

90. A person who writes a play is

- A. playwright
- B. playright
- C. playwriter
- D. playwrite

SECTION-IV

In this Section, there are 2 sub-section i.e. IV(a) Mathematics and Science and IV(b) Social Studies. Both the sub-sections consist of 60 Multiple choice Questions each. The candidate has to choose either IV(a) Mathematics and Science OR IV(b) Social Studies as selected in the Online Application Form and answer all the 60 questions.

SECTION-IV (a)

MATHEMATICS AND SCIENCE

There are 60 questions in all in this section. The candidates who have selected this subject must answer all the questions.

91. If ratio of the volumes of two cubes is 27 : 64, then what will be the ratio of their surface areas?

- A. 3 : 4
- B. 4 : 3
- C. 9 : 16
- D. $3\sqrt{3} : 8$

92. Area of curved surface of a cylindrical pole is 264m² and its volume is 1848 m³. What is the height of the pole ?

$\left(\text{use } \pi = \frac{22}{7} \right)$

- A. 4 m
- B. 3 m
- C. 5 m
- D. 6 m

93. 20 students of a class obtained following respective marks out of 100 marks in subject Mathematics:

54, 46, 24, 36, 84, 70, 16, 58, 6, 82, 44, 54, 32, 64, 8, 66, 52, 28, 16 and 30
Grouped frequency distribution table of above will be

A.

| S.No. | Class | Frequency |
|-------|--------|-----------|
| 1 | 0-20 | 4 |
| 2 | 20-40 | 5 |
| 3 | 40-60 | 6 |
| 4 | 60-80 | 3 |
| 5 | 80-100 | 2 |

B.

| S.No. | Class | Frequency |
|-------|--------|-----------|
| 1 | 0-20 | 4 |
| 2 | 20-40 | 6 |
| 3 | 40-60 | 5 |
| 4 | 60-80 | 3 |
| 5 | 80-100 | 2 |

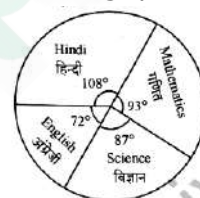
C.

| S.No. | Class | Frequency |
|-------|--------|-----------|
| 1 | 0-20 | 4 |
| 2 | 20-40 | 5 |
| 3 | 40-60 | 6 |
| 4 | 60-80 | 2 |
| 5 | 80-100 | 3 |

D.

| S.No. | Class | Frequency |
|-------|--------|-----------|
| 1 | 0-20 | 3 |
| 2 | 20-40 | 5 |
| 3 | 40-60 | 6 |
| 4 | 60-80 | 4 |
| 5 | 80-100 | 2 |

Note : Details of marks obtained by Seema in Hindi, English, Mathematics and Science subjects of examination of class 6 are shown in diagram given below. Sum of total marks obtained by Seema in these subjects is 480. Read carefully and answer following question (94 & 95):



94. How many marks obtained by Seema in Mathematics?

- A. 93
- B. 116
- C. 109
- D. 124

95. How many marks obtained by Seema more in Hindi in comparison of English?

- A. 36
- B. 48
- C. 21
- D. 30

96. Out of following which is not the exact characteristics of objective of Mathematics teaching in classroom.

- A. should be related to life
- B. should be in behavioural terms
- C. should be testable
- D. should be specific

97. If a student get same 42 marks out of 80 awarded by different examiners in a test of Mathematics, this shows which characteristics of evaluation out of following:

- A. Objectivity
- B. Validity
- C. Reliability
- D. Practicability

98. Out of following which is limitation of objective type questions?

- A. Guessing
- B. Difficulty in construction
- C. Cannot measure complex process
- D. All of the above

99. Out of following which of the teaching method in Mathematics is difficult to use in formal classroom situation?

- A. Inductive
- B. Deductive
- C. Project
- D. Analytic

100. Out of the following, Language of Mathematics is

- A. Symbolic
- B. National
- C. Complex
- D. Vedic

101. Out of the following, Mathematics in a strict sense is a

- A. Concrete Science
- B. Abstract Science
- C. Physical Science
- D. Relative Science

102. Out of the following which is not the characteristic of reasoning in Mathematics?

- A. Accuracy
- B. Certainty of result
- C. Originality
- D. Subjectivity

103. Out of the following, what is most important characteristic of oral work in Mathematics for school students

- A. It develops mental process
- B. It saves time
- C. Not require paper pencil
- D. Able to solve questions orally

104. Out of the following which gadget of Information and communication technology is particularly most useful for teaching graphs and geometry?

- A. LCD-Projector
- B. Slide Projector
- C. Interactive White Board
- D. Television

105. The synthetical method should be used to teach geometry in school after following

- A. Induction
- B. Synthesis
- C. Analysis
- D. Deduction

106. Value of $\sqrt{-\sqrt{3} + \sqrt{84 + 18\sqrt{3}}}$ is

- A. $\sqrt{3}$
- B. 3
- C. $-\sqrt{3}$
- D. 0

107. If $(4^{97} - 4^{96} + 4^{95}) = k \cdot 4^{95}$, then what is the value of k?

- A. 16
- B. 64
- C. 13

D. 4

108. $5a^2 + 15a - 6b - 2ab =$

- A. $(5a + 2b)(a + 3)$
- B. $(5a + 2b)(a - 3)$
- C. $(5a - 2b)(a - 3)$
- D. $(5a - 2b)(a + 3)$

109. What is the value of $\frac{1}{\sqrt[3]{\frac{8}{1000}}} + 3\sqrt[3]{\frac{192}{3}}$?

- A. 9
- B. 3
- C. 27
- D. 5

110. If $2x - 3y = 47$, then what will be the value of $(x - y)$?

- A. 40
- B. 32
- C. 38
- D. 42

111. $(3x + 5)^2 + 60x$ is equal to

- A. $(3x + 10)^2$
- B. $(3x - 5)^2$
- C. $(3x + 10)^2$
- D. $(3x - 12)^2$

112. What percentage of 80 is 80?

- A. 64%
- B. 80%
- C. 90%
- D. 100%

113. A.T.V. seller sold two T.V. at the rate of 9,600. Out of them, he obtained 20% profit on one T.V. and 20% loss on another T.V. How much profit or loss percentage is obtained in whole transaction?

- A. 10% profit
- B. 4% profit
- C. 4% loss
- D. No profit no loss

114. In a field 6 workers complete a task in 16 days. If this task is to be completed in 4 days, then how many workers will be required?

- A. 20
- B. 14
- C. 24
- D. 28

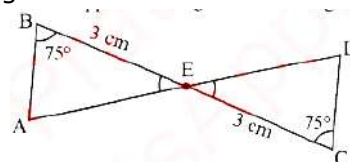
115. If simple interest is ₹ 640 in 5 years at the rate of 8%, then what will be the principal amount?

- A. ₹ 1,280
- B. ₹ 1,600
- C. ₹ 3,200
- D. ₹ 2,400

116. There is a target of increase in number of students in a University by 10% every year. If in year 2016 this number was 1500, then in year 2018 on completion of target how many students will be there in University?

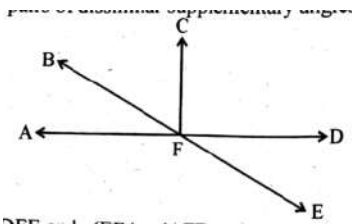
- A. 1800
- B. 1815
- C. 1700
- D. 1915

117. Which condition applies of congruence of triangles in the diagram given below?



- A. Side-Side-Side rule
- B. RHS rule
- C. Side-Angle-Side rule
- D. Angle-Side-Angle rule

118. Correct pairs of dissimilar supplementary angles in the following diagram are



- A. $\angle DFE$ and $\angle EFA$; $\angle AFB$ and $\angle BFD$
 B. $\angle DFE$ and $\angle AFB$; $\angle EFA$ and $\angle BFD$
 C. $\angle BFD$ and $\angle EFA$; $\angle AFB$ and $\angle DFE$
 D. $\angle AFC$ and $\angle DFC$; $\angle AFB$ and $\angle DFE$

119. Two parallel sides of a trapezium are 10 cm and 16 cm respectively. If area of the trapezium is 78 cm^2 , then what will be the height of the trapezium?

- A. 13 cm
 B. 5 cm
 C. 6 cm
 D. 8 cm

120. What will be the circumference of half part of a circle, whose diameter is 56 cm. (use $\pi = \frac{22}{7}$)

- A. 44 cm
 B. 88 cm
 C. 22 cm
 D. 66 cm

121. Cristae are found in which cell organelle?

- A. Golgi bodies
 B. Mitochondria
 C. Endoplasmic reticulum
 D. Chloroplast

122. Which is an insectivorous plant?

- A. Cuscuta
 B. Utricularia
 C. Monotropa
 D. Orobancha

123. Which is a red planet in Solar system?

- A. Mercury

- B. Venus
 C. Mars
 D. Saturn

124. DOTS is a short form of

- A. Directly Observed Treatment, Short Course
 B. Directly Observed Treatment Scheme
 C. Distantly Observed Treatment Scheme
 D. Distantly Observed Treatment Schedule

125. Which food group is richest in energy in terms of kCal per gram?

- A. Cereal, Millet and Pulses
 B. Vegetables and Fruits
 C. Milk and Milk products, Egg, Meat and Fishes
 D. Oil & Fats and Nuts & Oilseeds

126. Which one of the following statement is correct with reference to Luteinizing Hormone (LH)?

- A. It stimulates Leydig cells to produce testosterone.
 B. It is a neurohormone.
 C. It is secreted by Graafian follicles.
 D. It does not show synergism with FSH.

127. The strategy of alternation between sexual and asexual reproduction is known as

- A. Polyembryony
 B. Parthenogenesis
 C. Heterogamy
 D. Apomixis

128. Objectives related to affective domain mainly concerned with

- A. Knowledge
 B. Application
 C. Valuing
 D. Comprehension

129. Which one of the following is not a characteristic of a good test?

- A. Reliability
- B. Planning
- C. Objectivity
- D. Discrimination

130. An example of projected teaching aid is

- A. Bulletin Board
- B. Overhead projector
- C. Chart
- D. Model

131. Out of the following which teaching method gives importance to the mental conclusion?

- A. Lecture-cum-Demonstration method
- B. Lecture method
- C. Problem solving method
- D. Laboratory method

132. Out of the following which comes under "Product of Science"?

- A. Scientific laws
- B. Scientific attitude
- C. Formulation of hypothesis
- D. Experimentation

133. Out of the following which innovative teaching method covers all domains of objectives of teaching?

- A. Team teaching
- B. Micro teaching
- C. Brain storming
- D. Programmed instruction

134. Which type of teaching should be planned after diagnosing the learning difficulties of the students in science teaching?

- A. Micro teaching
- B. Team teaching
- C. Diagnostic teaching
- D. Remedial teaching

135. A systematic process of determining the extent to which educational objectives are achieved by the pupils is known as

- A. Training
- B. Evaluation
- C. Diagnosis
- D. Experiments

136. "Defining" Action verb is related with which behavioral objectives?

- A. Affective
- B. Psychomotor
- C. Cognitive
- D. Affective and Psychomotor

137. Out of the following frame of Linear Programmed Instruction, which of the following frame is exactly related with teaching-learning content?

- A. Teaching frame
- B. Introductory frame
- C. Testing frame
- D. Practice frame

138. An object of mass 0.75 kg is hanging from a string attached to roof. What will be the force applied by string on the object?

- A. 8.45 N
- B. 7.35 N
- C. 6.85 N
- D. 9.8 N

139. Which of the following statement is true for an oscillating simple pendulum?

- A. Potential energy is minimum at maximum displacement position.
- B. Potential energy is maximum at maximum displacement position.
- C. Kinetic energy is minimum at equilibrium position.
- D. Potential energy is maximum at equilibrium position.

140. Which of the following temperature is not possible?

- A. -8 °F
- B. -8 °C
- C. -8 k
- D. -8 °R

141. 1joule is equivalent to

- A. 4.2 kCal
- B. 4.2 Cal
- C. $\frac{1}{4.2}$ kCal
- D. $\frac{1}{4.2}$ Cal

142. What should be the minimum height of a plane mirror to get full image of an object of 2 m height?

- A. 1 m
- B. 2 m
- C. 4 m
- D. 0.5 m

143. Sound transmission takes place as

- A. Stationary transverse wave
- B. Progressive transverse wave
- C. Progressive longitudinal wave
- D. Particle form

144. Which of the following is a Green-house gas?

- A. Nitrogen
- B. Hydrogen
- C. Oxygen
- D. Nitrous Oxides

145. Chemical formula of Ammonium nitride is

- A. NH_4N
- B. $(\text{NH}_4)_2\text{N}_3$
- C. $(\text{NH}_4)_3\text{N}$
- D. $(\text{NH}_4)_3\text{N}_2$

146. Monomers used to prepare artificial fibre Dacron is

- A. Ethylene glycol and Acrylonitrile
- B. Ethylene glycol and Vinyl Chloride

- C. Ethylene glycol and Terephthalic Acid
- D. Ethylene glycol and Acetonitrile

147. Antacid substance used for the treatment of acidity in stomach is

- A. Caustic soda
- B. Caustic Potash
- C. Milk of Magnesia
- D. Lunar Caustic

148. Coal containing maximum percentage of carbon is

- A. Peat
- B. Lignite
- C. Bituminous
- D. Anthracite

149. Which of the following is an output device?

- A. Magnetic Ink Character Recognition (MICR)
- B. Optical Character Recognition (OCR)
- C. Optical Mark Reading (OMR)
- D. Visual Display Unit (VDU)

150. Who discovered Penicillin?

- A. Edward Jenner
- B. Robert Hooke
- C. Robert Koch
- D. Alexander Fleming

SECTION – IV (b)

SOCIAL STUDIES

There are 60 questions in all in this section. The candidates who have selected this subject must answer all the questions.

91. What does 'we the people of India' as mentioned in the preamble of the Constitution of India mean?

- A. Sovereignty lies with the Chief Justice of India
- B. Sovereignty lies with the People of India

C. Sovereignty lies with the Political Parties of India

D. Sovereignty lies with the Speaker of the Lok Sabha

92. Under which Article of the Constitution of India untouchability was abolished?

A. Article 16

B. Article 17

C. Article 18

D. Article 19

93. In which part of the Constitution of India the Fundamental Duties are enshrined?

A. Part V

B. Part II

C. Part IV A

D. Part VI

94. Article 25 of the Constitution of India is related to

A. Freedom of Conscience and free profession, practice and propagation of religion.

B. No discrimination would be done on the ground of religion, race, caste, language or any of them.

C. Right to education.

D. Minority Institutions.

95. Which of the following is not a constitutional provision related to Social justice?

A. Reservation for SC and ST in Government jobs.

B. Reservation for SC and ST in Legislature.

C. Equal pay for equal work.

D. Prohibition of Child Labour.

96. What is the Quorum required to run the proceedings of the Lok Sabha?

A. $1/4^{\text{th}}$ of total members

B. $2/3^{\text{rd}}$ of total members

C. $1/3^{\text{rd}}$ of total members

D. $1/10^{\text{th}}$ of total members

97. Which Article of the Constitution of India provides for a Council of Ministers which shall aid the President in the exercise of his functions?

A. Article 74

B. Article 78

C. Article 79

D. Article 80

98. Who appoints the State Election Commissioner?

A. Chief Election Commissioner of India

B. President of India

C. Governor of the concerned State

D. The Legislative Assembly of the State

99. Which of the following statements regarding the Supreme Court of India is not correct?

A. The President of India can seek the advice of Supreme Court in the matter related to interpretation of the Constitution.

B. It is binding upon the Supreme Court to advise the President.

C. The President is not bound to accept the advice given by the Supreme Court.

D. The Government can make the necessary amendments in the proposed legislation on the advice of the Supreme Court.

100. Electoral College for the election of the President of India consists of

A. only the elected members of Lok Sabha

B. all members of Lok Sabha

C. only the elected members of the Parliament of India and the Legislative Assemblies of the States.

D. only the elected members of the Parliament of India and the Legislative Assemblies of the States and Union Territories of Delhi and Puducherry.

101. Longest river of Asia is

- A. Hwang-Ho
- B. Yang-ti-si (Yangtze)
- C. Mekong
- D. Lena

102. Kilimanjaro mountain lies in which country?

- A. Tanzania
- B. Kenya
- C. Uganda
- D. Rawanda

103. The average temperature at stratopause is

- A. 43 °C
- B. -50 °C
- C. 100 °C
- D. 0 °C

104. Basalt rock is an example of

- A. Hypabyssal rock
- B. Extrusive ligneous rock
- C. plutonic rock
- D. Metamorphic rock

105. The average energy flow from one trophic level to another is

- A. 15%
- B. 5%
- C. 10%
- D. 20%

106. Whose emissary was Magasthanese?

- A. Alexander
- B. Bindusara
- C. Wilson I
- D. Selucus

107. Who was not the Navaratna of Chandragupta II's court?

- A. Varruchi
- B. Varahmihir
- C. Dhanvantri
- D. Fahian

108. The name of Maharana Pratap's elephant was

- A. Ram Prasad
- B. Chetak
- C. Mardana
- D. Veer Prasad

109. Social reformer Govind Guru was born in a

- A. Pandit family
- B. Farmer family
- C. Banjara family
- D. Jamindar family

110. Who wrote 'Chetawani Ra Chungatya'?

- A. Pratap Singh Barhath
- B. Jorawar Singh Barhath
- C. Rao Gopal Singh
- D. Kesari Singh Barhath

111. Who arranged a scholarship for Veer Vinayak Damodar Sawarkar for his higher education in London?

- A. Shyamji Krishna Verma
- B. Subhash Chandra Bose
- C. Ras Bihari Bose
- D. Mohan Singh

112. The capital of the Matsya Janpad was

- A. Champa
- B. Virat Nagar
- C. Kushinara
- D. Gokulpura

113. 'Anad Temple' of Pagan Dynasty is located in

- A. Pakistan
- B. India
- C. Myanmar
- D. China

114. Who won the battle of Tarain (1191 A.D.)?

- A. Arno Raj Chauhan
- B. Mohammad Ghorī
- C. Prithvi Raj Chauhan

D. Govind Raj Chauhan

115. Which dance form of Rajasthan is included in intangible cultural heritage list of UNESCO in 2010?

- A. Geendar
- B. Kalbeliya
- C. Bhawai
- D. Kachchhi Ghodi

116. Who was the husband of Saint Meera Bai?

- A. Bhoj Raj
- B. Ratan Singh
- C. Narpāt Singh
- D. Sangram Singh

117. Painting School 'Bani-Thani' is related to

- A. Satwant Prasad
- B. Nagri Das
- C. Mrigawati
- D. Shiv-Parvati

118. Who was related to Dadrewa village of Churu district ?

- A. Pabuji
- B. Gogaji
- C. Harbhujī
- D. Devnarayanji

119. Who among the following sacrificed her life in Khejarali Movement?

- A. Padmini Devi
- B. Karma Devi
- C. Meena Devi
- D. Amrita Devi

120. Who wrote 'Vanda Matarm' in book 'Anand Math'?

- A. Bankim Chandra Chattarjee
- B. Vyomesh Chandra Banerjee

- C. Vipin Chandra Pal
- D. Ravindra Nath Tagore

121. Which of the following place is not connected by National Highway No. 15?

- A. Jaisalmer
- B. Barmer
- C. Hanumangarh
- D. Bikaner

122. Which of the following is the largest man-made soft water lake in Rajasthan?

- A. Pichhola
- B. Jaisamand
- C. Fatehsagar
- D. Rajsamand

123. The devotees of Vishnu were known as

- A. Nayanars
- B. Pashupatas
- C. Alvars
- D. Lingayats

124. In which one of the following source mentioned the Sixteen Mahajanpadas in Ancient India is found?

- A. Anguttar Nikaya
- B. Duvyavadana
- C. Rigveda
- D. Suttapitak

125. The old name of the river Ravi was

- A. Suvastu
- B. Kubha
- C. Parushni
- D. Dwashdwati

126. The capital of Shoorsen Janapada was

- A. Mathura
- B. Vrindavan
- C. Indraprastha
- D. Kurukshetra

127. State 'Rajasthan' finally formed on

- A. November 01, 1956
- B. May 15, 1949
- C. March 25, 1948
- D. January 26, 1950

128. Social Studies is taught at

- A. Secondary level
- B. Senior Secondary level
- C. Graduation level
- D. All of the above

129. Taxonomy of objectives in education is given by

- A. John Dewey
- B. Smith
- C. B.S. Bloom
- D. I.K. Davis

130. Area of curriculum includes

- A. Internal activities of a school
- B. External activities of a school
- C. Both of them
- D. None of them

131. Social Studies text book should be according to

- A. the Author
- B. the Student
- C. the Teacher
- D. the Government

132. Social Studies teacher is telling the sequential process of election in classroom. She is using the technique of

- A. Explanation
- B. Narration
- C. Discussion
- D. Questioning

133. Social Studies teacher should give emphasis on

- A. giving information related to subject
- B. developing thinking power of students towards social issues.

C. preparing students for exams.

D. language development of students.

134. Visiting historical places is useful in Social Studies teaching for

- A. creating interest in subject.
- B. providing first hand information.
- C. better understanding of content.
- D. All of the above

135. Bloom's lesson plan is based on

- A. Objectives
- B. Content
- C. Presentation
- D. All of the above

136. The project is that purposeful work which is done with complete devotion in the social atmosphere. This statement is that of

- A. Bloom
- B. Crow and Crow
- C. John Dewey
- D. Kilpatrick

137. In Social Studies which of the following test provides an opportunity to evaluate student's independent thinking?

- A. Objective type test
- B. Essay type test
- C. Short answer type test
- D. Very short answer type test

138. Which of the following is a 'Rabi' Crop?

- A. Jute
- B. Groundnut
- C. Mustard
- D. Water-melon

139. Sadia to Dhubri stretch of Brahmaputra river is connected by which of the following Inland National waterways?

- A. National Waterways No. 1

- B. National Waterways No. 2
- C. National Waterways No. 3
- D. National Waterways No. 4

140. What was the male literacy rate in India as per 2011 Census?

- A. 82.14%
- B. 65.46%
- C. 72.36%
- D. 78.30%

141. The winter rainfall in India is the result of cyclones, which originates from

- A. Arabian Sea
- B. Bay of Bengal
- C. Red Sea
- D. Mediterranean Sea

142. The area in Indo-Gangetic plain where internal channels re-emerges is locally known as

- A. Tarai Region
- B. Bhabar Region
- C. Bangar Region
- D. Cho

143. Which of the following energy resources is credited to trigger modern industrialization?

- A. Hydel Power
- B. Atomic Energy
- C. Coal
- D. Non-conventional energy

144. Which of the following State of India has banned chemical fertilizer for sustainable agriculture?

- A. Sikkim
- B. Arunachal Pradesh
- C. Andhra Pradesh
- D. Goa

145. Which of the following Iron and Steel Plant was established with the technical collaboration of Britain?

- A. Bokaro Steel Plant
- B. Durgapur Steel Plant

- C. Raurkela Steel Plant
- D. Vijaynagar Steel Plant

146. Which of the following river is notorious for 'Badland'?

- A. Chambal
- B. Krishna
- C. Godavari
- D. Tungabhadra

147. The habitat of 'Yakut' tribe is

- A. New Zealand
- B. Congo Basin
- C. Amazon Basin
- D. North Siberia

148. Ghagghar Plain is situated in

- A. Ganganagar and Hanumangarh Districts
- B. Jhunjhunu and Sikar Districts
- C. Jalore and Sirohi Districts
- D. Jaisalmer and Barmer Districts

149. The first textile mill of Rajasthan was established at

- A. Ganganagar
- B. Bhilwara
- C. Udaipur
- D. Beawar

150. As per 2011 Census, which of the following district of Rajasthan recorded lowest decadal population growth rate?

- A. Ganganagar
- B. Bundi
- C. Baran
- D. Sikar



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