

PREVIOUS YEAR PAPER

UPTET 2021 Paper I (Primary) — 23 January 2022 (Series D)

UPTET · 23 January 2022

150 questions · +1 for a correct answer, -0 for a wrong one · 150 minutes

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Questions from the Uttar Pradesh Education Service Selection Commission's paper of 23 January 2022. Each question is followed by its answer, and the answer key is repeated on the last page.

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Child Development and Teaching Method

1. Instincts are classified in fourteen types by

- (a) McDougall
- (b) Drever
- (c) Woodworth
- (d) Thorndike

Answer: (a)

2. 'Attention is the concentration of consciousness upon one object rather than upon another' this statement is related to

- (a) Ross
- (b) Dumvile
- (c) McDougall
- (d) Munn

Answer: (b)

3. Whose name is associated with 'Father of the Eugenics' from the following ?

- (a) Galton
- (b) Crow and Crow
- (c) Woodworth
- (d) Ross

Answer: (a)

4. Which test is propounded by Dr. S. Jalota in Hindi for the children of 12 to 16 years ?

- (a) General Mental Ability Test
- (b) Non-verbal Intelligence Test
- (c) Picture Drawing Test
- (d) Army Alfa Test

Answer: (a)

5. Who propounded the 'Two Factor Theory' of intelligence ?

- (a) Spearman
- (b) Thorndike
- (c) Stern
- (d) Vernon

Answer: (a)

6. Blue print is an important component of which of the following ?

- (a) Test validation
- (b) Test construction
- (c) Test scoring
- (d) Test administration

Answer: (b)

7. Pre-operational stage is the stage of development proposed by

- (a) Piaget
- (b) Bruner
- (c) Skinner
- (d) Kohler

Answer: (a)

8. M.P.P.I. is a test used to measure which of the following ?

- (a) Intelligence
- (b) Personality
- (c) Creativity
- (d) Achievement

Answer: —

9. Which of the following is most essential for learning ?

- (a) Interest
- (b) Motivation
- (c) Guidance
- (d) Maturation

Answer: (b)

10. The period of infancyhood is

- (a) From birth to 2 years
- (b) From 12 years to 18 years
- (c) Upto 15 years
- (d) From birth to 6 years

Answer: (a)

11. Kohler is associated with which of the following ?

- (a) Theory of Development
- (b) Theory of Motivation
- (c) Theory of Learning
- (d) Theory of Personality

Answer: (c)

12. According to McDougall the number of instincts are

- (a) 14
- (b) 15
- (c) 10
- (d) 12

Answer: (a)

13. Brainstorming Model of Teaching is used to improve which of the following ?

- (a) Application
- (b) Understanding
- (c) Problem solving
- (d) Creativity

Answer: (c)

14. 'Dog' was the experimentee in whose experiment

- (a) Pavlov
- (b) Skinner
- (c) Kohler
- (d) Thorndike

Answer: (a)

15. Originality, flexibility and flow are the components of which of the following ?

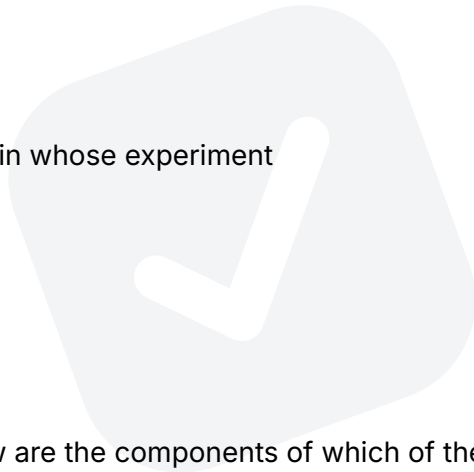
- (a) Creativity
- (b) Intelligence
- (c) Motivation
- (d) Personality

Answer: (a)

16. Through his experiment Kohler wanted to prove that learning is

- (a) An independent activity
- (b) The perception of whole situation
- (c) Human learning is purposeful
- (d) Better in animals than human beings

Answer: (b)



17. Who propounded 'Five Step System' of lesson planning ?

- (a) Herbart
- (b) John Dewey
- (c) Bloom
- (d) Kilpatrick

Answer: (a)

18. Who described different types of personality based on Glands from the following ?

- (a) Jung
- (b) Kreshmer
- (c) Sprangar
- (d) Cannon

Answer: (d)

19. 'Creativity is a mental process to express the original outcomes' - the statement is of

- (a) Drevahal
- (b) Cole and Bruce
- (c) Crow and Crow
- (d) Dehan

Answer: (c)

20. According to B.F. Skinner language development of children takes place

- (a) As an outcome of maturity
- (b) As an outcome of inborn capability
- (c) As an outcome of training in grammar
- (d) As an outcome of imitation and reinforcement

Answer: (d)

21. Combat is

- (a) Emotion
- (b) Instinct
- (c) Thinking
- (d) Imagination

Answer: (b)

22. Factors affecting the social development of children are

- (a) Social environmental elements
- (b) Economic elements
- (c) Hereditary elements
- (d) Physical elements

Answer: (a)

23. Which of the following is a primary law of Physical Development ?

- (a) Law of irregular development
- (b) Law of difference from mental development
- (c) Law of relation from imagination and emotional development
- (d) Law of rapid growth

Answer: (d)

24. Which of the following is not the theory of development ?

- (a) Theory of Continuous Growth
- (b) Theory of Conditioned Reflex
- (c) Theory of Uniform Pattern
- (d) Theory of Interrelation

Answer: (b)

25. "Development results in new characteristics and new abilities" this statement is given by

- (a) Hurlock
- (b) Gessell
- (c) Douglas and Holland
- (d) Meredith

Answer: (a)

26. Giving meaning to sensation on the basis of past experience is called

- (a) Perception
- (b) Imagination
- (c) Thinking
- (d) Memory

Answer: (a)

27. Who has propounded the law of trial and error of learning ?

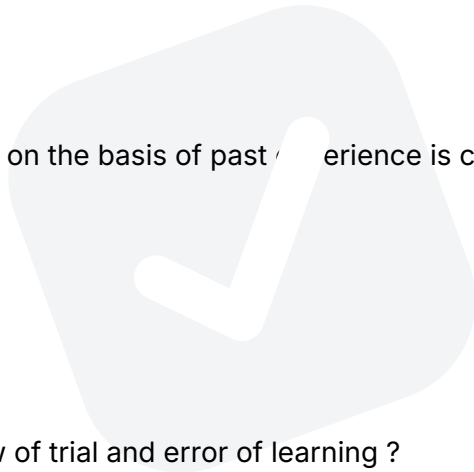
- (a) Pavlov
- (b) Kohler
- (c) Gestalt
- (d) Thorndike

Answer: (d)

28. I.Q. Level of average intelligence children will be between

- (a) 80 - 89
- (b) 70 - 79
- (c) 110 - 114
- (d) 90 - 109

Answer: (d)



29. Who among the following has proposed Fluid Mosaic Model of Intelligence ?

- (a) Thorndike
- (b) Cattell
- (c) Skinner
- (d) Vernon

Answer: (b)

30. Operant Conditioning Theory is propounded by

- (a) Thorndike
- (b) Hull
- (c) Skinner
- (d) Hegarty

Answer: (c)

Language I Hindi

31. निम्न में से किस शब्द की वर्तनी सही है ?

- (a) अनुगृहीत
- (b) अनुग्रहीत
- (c) अनुग्रहित
- (d) अनग्रहीत

Answer: (a)

32. निम्नलिखित में शुद्ध शब्द है

- (a) पैतृक
- (b) पैत्रिक
- (c) पैत्रक
- (d) पैतरिक

Answer: (a)

33. 'श' ध्वनि का उच्चारण स्थान क्या है ?

- (a) मूर्धा
- (b) दन्त
- (c) दन्तालु
- (d) तालु

Answer: (d)



34. 'अत्यंत' शब्द में प्रयुक्त उपसर्ग है

- (a) अ
- (b) अत्
- (c) अति
- (d) अत्य

Answer: (c)

35. 'उपत्यका' का अर्थ है

- (a) प्राणियों के पेट का एक अंग
- (b) सूर्य जिस पर्वत के पीछे से निकलता है
- (c) पर्वत के पास की भूमि
- (d) पर्वत का शिखर

Answer: (c)

36. इस देश में हिन्दी भाषा का प्रयोग लिखने एवं बोलने में किया जाता है

- (a) दक्षिण अमेरिका
- (b) आस्ट्रेलिया
- (c) मारीशस
- (d) पाकिस्तान

Answer: (c)

37. 'सूर सागर' किस भाषा की रचना है ?

- (a) बुन्देली
- (b) अवधी
- (c) छत्तीसगढ़ी
- (d) ब्रज

Answer: (d)

38. 'वीरों का कैसा हो वसंत' कविता किसकी लिखी है ?

- (a) सुभद्रा कुमारी चौहान
- (b) सुमित्रा कुमारी चौहान
- (c) रामधारी सिंह दिनकर
- (d) माखनलाल चतुर्वेदी

Answer: (a)



39. 'क्षेत्रीय' में कौन-सा विशेषण है ?

- (a) संख्यावाचक
- (b) गुणवाचक
- (c) सार्वनामिक
- (d) परिमाण बोधक

Answer: (b)

40. 'चौराहा' शब्द में समास है

- (a) द्वन्द्व समास
- (b) कर्मधारय समास
- (c) अव्ययीभाव समास
- (d) द्विगु समास

Answer: (d)

41. निम्नलिखित में मौखिक अभिव्यक्ति का रूप है

- (a) सुलेख
- (b) शुद्ध वर्तनी
- (c) आशु भाषण
- (d) श्रुतलेख

Answer: (c)

42. हिन्दी भाषा की बोलियाँ हैं

- (a) 25
- (b) 15
- (c) 22
- (d) 18

Answer: (d)

43. 'सामाजिक' शब्द में मूल शब्द और प्रत्यय है

- (a) सामा + जिक
- (b) सामाज + इक
- (c) समाज + इक
- (d) सा + माजिक

Answer: (c)



44. 'तद्भव' पत्रिका के सम्पादक का नाम है

- (a) विश्वनाथ प्रसाद तिवारी
- (b) लीलाधर जगूड़ी
- (c) अखिलेश
- (d) हरे प्रकाश उपाध्याय

Answer: (c)

45. 'बारह बरस लौ कूकर जीवै, अरु तेरह लौ जियै सियार' - यह पंक्ति किसकी है ?

- (a) चन्दवरदाई
- (b) विद्यापति
- (c) जगनिक
- (d) नरपति नाल्ह

Answer: (c)

Passage — for questions 46–50

प्रश्न सं. 46 - 50 : दिये गये गद्यांश को पढ़कर निम्नलिखित प्रश्नों के विकल्प छाँटिए :

आदिम आर्य घुमक्कड़ ही थे। यहाँ से वहाँ वे घूमते ही रहते थे। घूमते भटकते ही वे भारत पहुँचे थे। यदि घुमक्कड़ी का बाना उन्होंने न धारण किया होता, यदि वे एक स्थान पर ही रहते, तो आज भारत में उनके वंशज न होते। भगवान बुद्ध घुमक्कड़ थे। भगवान महावीर घुमक्कड़ थे। वर्षाऋतु के कुछ महीनों को छोड़कर एक स्थान में रहना बुद्ध के वंश का नहीं था। 35 वर्ष आयु में उन्होंने बुद्धत्व प्राप्त किया। 35 वर्ष से 80 वर्ष की आयु तक जब उनकी मृत्यु हुई, 45 वर्ष तक वे निरन्तर घूमते ही रहे। अपने आप समाज सेवा और धर्म प्रचार में लगाये रहे। अपने शिष्यों से उन्होंने कहा था "चरथ भिक्खवे" चारिक" हे भिक्षुओं! घुमक्कड़ी करो यद्यपि बुद्ध भारत के बाहर नहीं गये किन्तु उनके शिष्यों ने उनके वचनों को सिर आँखों पर लिया और पूर्व में जापान उत्तर में मंगोलिया पश्चिम में अफ़ग़ानिस्तान और दक्षिण में बाली द्वीप तक धावा मारा। श्रवण महावीर ने स्वच्छन्द विचरण के लिए अपने वस्त्रों तक को त्याग दिया। दिशाओं को उन्होंने अम्बर बना लिया, वैशाली में जन्म लिया, पावा में शरीर त्याग किया। जीवनपर्यन्त घूमते रहे। मानव के कल्याण के लिए मानवों के राह प्रदर्शन के लिये और शंकराचार्य, बारह वर्ष की अवस्था में संन्यास लेकर कभी केरल, कभी मिथिला, कभी कश्मीर और कभी बद्रिकाश्रम में घूमते रहे। कन्याकुमारी से लेकर हिमालय तक समस्त भारत को अपना कर्मक्षेत्र समझा सांस्कृतिक एकता के लिए, समन्वय के लिए, श्रुति धर्म की रक्षा के लिए शंकराचार्य के प्रयत्नों से ही वैदिक धर्म का उत्थान हो सका।

46. घुमक्कड़ शब्द में कौन-सा प्रत्यय है ?

- (a) इ
- (b) अक्कड़
- (c) कड़
- (d) अड़

Answer: (b)

47. महावीर स्वामी का जन्म कहाँ हुआ था ?

- (a) वैशाली
- (b) पावापुरी
- (c) पारसौली
- (d) कुशीनगर

Answer: (a)

48. स्वच्छन्द में कौन-सी सन्धि है ?

- (a) दीर्घ
- (b) विसर्ग
- (c) व्यंजन
- (d) गुण

Answer: (c)

49. महात्मा बुद्ध ने जब बुद्धत्व प्राप्त किया तब उनकी अवस्था कितनी थी ?

- (a) 35 वर्ष
- (b) 12 वर्ष
- (c) 80 वर्ष
- (d) 45 वर्ष

Answer: (a)

50. "श्रुति धर्म" का क्या अर्थ है ?

- (a) बौद्ध धर्म
- (b) जैन धर्म
- (c) वैदिक धर्म
- (d) मुस्लिम धर्म

Answer: (c)

51. ङ का उच्चारण स्थान होता है

- (a) कंठोष्ठ्य
- (b) नासिक्य
- (c) कंठ तलव्य
- (d) मूर्धन्य

Answer: (b)

52. 'चार गज मलमल' में कौन-सा विशेषण है ?

- (a) गुणवाचक
- (b) संख्यावाचक
- (c) सार्वनामिक
- (d) परिमाणबोधक

Answer: (d)



53. 'समास' का विलोम क्या है ?

- (a) सामासिक
- (b) व्यास
- (c) साहसिक
- (d) समस्या

Answer: (b)

54. 'सुत्र' का तत्सम रूप क्या है ?

- (a) सत्र
- (b) सूत
- (c) शून्य
- (d) सूना

Answer: (c)

55. 'आँख की किरकिरी होने' का अर्थ है

- (a) घोखा देना
- (b) अप्रिय लगना
- (c) बहुत प्रिय होना
- (d) कष्टदायक होना

Answer: (b)

56. 'अकाल' का पर्यायवाची है

- (a) अक्षत
- (b) दुर्भिक्ष
- (c) अपरिहार्य
- (d) अँधियारा

Answer: (b)

57. निम्नलिखित वाक्यों में कौन-सा मिश्र वाक्य है ?

- (a) छात्र पढ़ते हैं और अध्यापक उन्हें देखते हैं।
- (b) अध्यापकों के सम्मुख छात्र पढ़ते हैं।
- (c) क्या अध्यापकों के सम्मुख छात्र पढ़ते हैं।
- (d) अध्यापक देखते हैं कि छात्र पढ़ते हैं।

Answer: (d)



58. 'जिसकी पूर्व से कोई आशा न हो' के लिए एक शब्द है

- (a) अप्रत्याशित
- (b) प्रत्याशा
- (c) अनाहूत
- (d) अपरिमेय

Answer: (a)

59. 'मुझसे उठा नहीं गया' वाक्य में वाच्य है

- (a) कर्मवाच्य
- (b) कर्तृवाच्य
- (c) इनमें से कोई नहीं
- (d) भाववाच्य

Answer: (d)

60. 'निष्कपट' शब्द का सन्धि-विच्छेद है

- (a) निष् + कपट
- (b) निः + कपट
- (c) निश् + कपट
- (d) नि + कपट

Answer: (b)

Language II English



Passage — for questions 61–68

Direction - Read the passage below and answer the questions that follow (Q. No. 61 to 68) by selecting the most appropriate option :

The children of M. G. Vidyalaya, had a wonderful time yesterday. They were captivated by the speed, agility and showmanship of magician, Kim Rathod. The children watched him spell-bound for two hours. All that broke the silence was a gasp of astonishment or the sound of spontaneous applause, appreciating a trick. Out of his magic wand came flowers, ribbons and garlands of every possible colour and seemingly unending length. It came in such quick succession that everyone was left gasping. One or two young children came up to examine the thin stick wondering how it could hold so much. They were really frustrated. As if that was not magical enough he made a rabbit pop out of an empty wooden box. It went hopping around the stage. It was soon put back into the box and seconds later, he pulled out a rat, soft, white and squeaking. The little ones seemed a little frightened by this, while the others clapped and cheered loudly. This was the grand finale.

The children did not want it to end. They shouted 'encore', 'once more'. But Kim gave them a bright smile and vanished from the scene. The children were left searching here and there for him. Then they walked out excitedly recounting what they had seen and how wonderful it was. One of the boys Ravi declared loudly, it was the best magic show of the century.

61. What does 'encore' mean ?

- (a) Try
- (b) Never
- (c) Now
- (d) Once more

Answer: (d)

62. What did Kim do in the end ?

- (a) Smiled and disappeared
- (b) Performed the act once again
- (c) Sat down
- (d) Never performed the trick

Answer: (a)

63. What does 'Century' denote ?

- (a) A period of ten years
- (b) A period of one year
- (c) A period of hundred years
- (d) A period of fifty years

Answer: (c)

64. What is the magician's name ?

- (a) Ravi
- (b) M. G. Vidyalaya
- (c) Kiran Rathod
- (d) Kim Rathod

Answer: (d)

65. What is the meaning of 'captivated' ?

- (a) Honoured
- (b) Astonished
- (c) Angered
- (d) Arrested

Answer: (d)

66. What is the meaning of 'spontaneous' ?

- (a) Always
- (b) Happening suddenly
- (c) Continuous
- (d) Never

Answer: (b)

67. What is a 'Wand' ?

- (a) Cloth
- (b) Stick
- (c) Box
- (d) Hat

Answer: (b)

68. What is the meaning of 'hopping' ?

- (a) Jumping
- (b) Running
- (c) Singing
- (d) Standing

Answer: (a)

69. What kind of adjectives are used in the following sentence ?

A live ass is better than a dead lion.

- (a) Quantity
- (b) Descriptive
- (c) Quality
- (d) Indefinite

Answer: (c)

70. Which of the following has been misspelt ?

- (a) ambiguous
- (b) deciduous
- (c) entrance
- (d) governance

Answer: (d)

71. Pick out the correct synonym of the word :
attenuate

- (a) force
- (b) repent
- (c) make thin
- (d) divide

Answer: (c)

72. Pick the sentence with the correct conjunction :

- (a) No sooner had we reached the station than the train left.
- (b) No sooner had we reached the station but the train left.
- (c) No sooner had we reached the station and the train left.
- (d) No sooner had we reached the station when the train left.

Answer: (a)

73. Pick out the suitable antonym of the given word :
judicious

- (a) sagacious
- (b) imprudent
- (c) careful
- (d) silly

Answer: (b)

74. Fill in the blank with suitable Pronoun :
My son and my daughter are very fond of .

- (a) each other
- (b) herself
- (c) himself
- (d) themselves

Answer: (a)

75. Which of the following is an example of Metaphor ?

- (a) The face of the child is as soft as the petals of a rose.
- (b) He is a big donkey.
- (c) My heart leaps up when I behold a rainbow in the sky.
- (d) The bitter-sweet memories of childhood are a source of great pleasure.

Answer: —

76. Choose the correct option :
Study of population is known as

- (a) Astronomy
- (b) Ecology
- (c) Genealogy
- (d) Demography

Answer: (d)

77. Transform the following into a Direct sentence :

'I asked Sheela if I might know her father'.

- (a) I told Sheela, "May I know your father ?"
- (b) I said to Sheela, "May I know your father ?"
- (c) I questioned Sheela, "Will I know your father ?"
- (d) I asked Sheela, "Can I know your father ?"

Answer: (b)

78. The idiom 'To ring one's own bell' means

- (a) to be one's publicity agent
- (b) to think properly
- (c) to indulge in self praise
- (d) to commit a theft

Answer: (c)

79. The meaning of the idiom "to put out" is

- (a) To wait
- (b) To postpone
- (c) To go out
- (d) To extinguish

Answer: (d)

80. The sentence : "This is the house in which I was born", is

- (a) A compound sentence
- (b) A simple sentence
- (c) A compound - complex sentence
- (d) A complex sentence

Answer: (d)

81. Fill in the blank :

'The objection was met out _____ the lawyer'.

- (a) to
- (b) with
- (c) from
- (d) by

Answer: (d)

82. Fill in the blank :

"_____ of playing, the children went home".

- (a) On tiring
- (b) Being tired
- (c) While tiring
- (d) Having tired

Answer: (d)

83. Join the following sentence to make a simple sentence :

The coffee isn't too strong. It won't keep awake.

- (a) The coffee isn't too strong and will not keep us awake.
- (b) The coffee isn't too strong to keep us awake.
- (c) The coffee isn't too strong so as to keep us awake.
- (d) The coffee isn't too strong so it won't keep us awake.

Answer: (b)

84. Who are the earliest known inhabitants of Antarctica ?

- (a) Indian Scientists
- (b) American Scientists
- (c) It is has always been a desert
- (d) Dinosaurs

Answer: —

85. Which of the following words is an Adverb ?

- (a) Face
- (b) Apace
- (c) Fury
- (d) Meek

Answer: (b)

86. Complete the following sentence with correct Conjunction :

_____ he had not paid his bill, his electricity was cut off.

- (a) Either
- (b) But
- (c) As
- (d) Unless

Answer: (c)

87. Choose the correct figure of speech in the following sentence :

Death lays his icy hand on Kings.

- (a) Personification
- (b) Metaphor
- (c) Simile
- (d) Apostrophe

Answer: —

88. Choose the proper sequence to complete the following :

The guide said that

P. nowhere in the world

Q. a fairer building

R. you will find

S. than the Taj Mahal.

The proper sequence should be :

(a) P R Q S

(b) R Q P S

(c) R Q S P

(d) P S Q R

Answer: (a)

89. Give the meaning of the following proverb :

A bird in hand is worth two in a bush.

(a) To be dissatisfied with what you have.

(b) To catch two birds with your hands.

(c) To trap birds in bushes.

(d) It is better to be satisfied with what you have than to try to get what is not yours.

Answer: (d)

90. Choose the correct option to complete the sentence :

I _____ him since we met a year ago.

(a) haven't seen

(b) didn't see

(c) not saw

(d) hadn't seen

Answer: (a)

| Mathematics

91. If $10^{3x} = 125$, then value of 10^{-2x} is

(a) 25

(b) $1/5$

(c) $1/25$

(d) $-1/25$

Answer: (c)

92. 16075 is divided by a number to give quotient 167 and remainder 43, then divisor is

(a) 56

(b) 76

(c) 86

(d) 96

Answer: (d)

93. The number of positive prime integers < 50 is

- (a) 15
- (b) 14
- (c) 25
- (d) 16

Answer: (a)

94. Twice the larger of two numbers is three more than five times the smaller and the sum of four times the larger and three times the smaller is 71. What are the numbers ?

- (a) 11, 9
- (b) 43, 8
- (c) 17, 1
- (d) 14, 5

Answer: (d)

95. A square with a side of 8 cm and a rectangle with length 16 cm have same area. What is the breadth of the rectangle ?

- (a) 8 cm
- (b) 4 cm
- (c) 12 cm
- (d) 6 cm

Answer: (b)

96. H.C.F. of $14/33$, $42/55$, $21/22$ is

- (a) $17/330$
- (b) $7/330$
- (c) $330/17$
- (d) $330/7$

Answer: (b)

97. Square root of $(7 + 2\sqrt{10})$ is

- (a) $(\sqrt{3} + 2)$
- (b) $(\sqrt{6} + 1)$
- (c) $(2 + \sqrt{5})$
- (d) $(\sqrt{2} + \sqrt{5})$

Answer: (d)

98. A square and an equilateral triangle have a side in common. If side of triangle is $4/3$ cm long, find the perimeter of the figure obtained.

- (a) $16/9 (\sqrt{3}/4 + 1)$ cm
- (b) $6 \frac{2}{3}$ cm
- (c) $5 \frac{1}{3}$ cm
- (d) $16/9$ cm

Answer: (b)



99. Which of the following numbers is divisible by 99 ?

- (a) 135792
- (b) 114345
- (c) 3572406
- (d) 913462

Answer: (b)

100. What is π ?

- (a) Irrational number
- (b) Rational number
- (c) Integer
- (d) Prime number

Answer: (a)

101. If cost price of an article is $\frac{3}{2}$ of its selling price, then profit or loss percent is

- (a) $33\frac{1}{3}\%$ loss
- (b) $33\frac{1}{3}\%$ profit
- (c) $33\frac{1}{8}\%$ profit
- (d) $33\frac{1}{8}\%$ loss

Answer: (a)

102. When 121012 is divided by 12, the remainder is

- (a) 2
- (b) 0
- (c) 4
- (d) 3

Answer: (c)

103. Digit of unit place in the product of $(378 \times 236 \times 459 \times 312)$ is

- (a) 8
- (b) 6
- (c) 4
- (d) 2

Answer: (c)

104. What will be the median of the given data if the mean is 4.5 ?

5, 7, 7, 8, x, 5, 4, 3, 1, 2

- (a) 6
- (b) 5.5
- (c) 4.5
- (d) 5

Answer: (c)

105. Most important person, related with the method of 'Analysis of Variance' in Statistics

- (a) Gauss
- (b) R. A. Fisher
- (c) Newton
- (d) Laplace

Answer: (b)

106. D, E, F are respectively the mid points of ΔABC . Which of the following statement is correct ?

- (a) $\text{area}(\Delta DEF) = \frac{1}{2} \text{area}(\Delta ABC)$
- (b) $\text{area}(\Delta DEF) = \text{area}(\Delta ABC)$
- (c) $\text{area}(\Delta DEF) = \frac{1}{4} \text{area}(\Delta ABC)$
- (d) $\text{area}(\Delta DEF) = \frac{1}{3} \text{area}(\Delta ABC)$

Answer: (c)

107. If Arithmetic mean of a given data is A, Geometric mean = G and Harmonic mean = H, then

- (a) $A \leq G \leq H$
- (b) $A \leq G \geq H$
- (c) $A \geq H \geq G$
- (d) $A \geq G \geq H$

Answer: (d)

108. The difference and the product of two numbers are 5 and 36 respectively. Then the difference of their reciprocals is

- (a) $31/36$
- (b) $5/36$
- (c) $9/5$
- (d) $5/9$

Answer: (b)

109. Who was the self taught Indian mathematical genius in 20th century ?

- (a) Shridharacharya
- (b) Aryabhatta
- (c) Harish Chandra
- (d) Srinivas Ramanujan

Answer: (d)

110. The area of four walls of a room is 660 m^2 and the length is twice its width. If height of the room is 11 m, then area of its ceiling is

- (a) 150 m^2
- (b) 200 m^2
- (c) 75 m^2
- (d) 100 m^2

Answer: (b)

111. If $a/3 = b/4 = c/7$, then value of $(a + b + c)/c$ is

- (a) 7
- (b) $\sqrt{2}$
- (c) $1/\sqrt{7}$
- (d) 2

Answer: (d)

112. January 5, 1991 was a Saturday, what day of the week was on March 3, 1992 ?

- (a) Monday
- (b) Saturday
- (c) Tuesday
- (d) Sunday

Answer: (c)

113. Simplify $[(1/3)^{-3} - (1/4)^{-2}] \div (1/4)^{-3}$

- (a) $5/24$
- (b) $11/64$
- (c) $1/16$
- (d) $3/64$

Answer: (b)

114. To construct a triangle, the possible sides are

- (a) 3.5 cm, 9.2 cm, 5.3 cm
- (b) 6 cm, 3 cm, 3 cm
- (c) 6.3 cm, 5.9 cm, 4.6 cm
- (d) 6.5 cm, 105 mm, 39 mm

Answer: (c)

115. Arrange $\sqrt{3}$, $\sqrt[3]{4}$, $\sqrt[4]{5}$ in ascending order.

- (a) $\sqrt[3]{4}$, $\sqrt{3}$, $\sqrt[4]{5}$
- (b) $\sqrt{3}$, $\sqrt[3]{4}$, $\sqrt[4]{5}$
- (c) None of these
- (d) $\sqrt[4]{5}$, $\sqrt[3]{4}$, $\sqrt{3}$

Answer: (d)

116. Which measures of central tendency get affected if the extreme observations on both the ends of a data arranged in descending order are removed ?

- (a) Mean, Median and Mode
- (b) Mean and Median
- (c) Mode and Median
- (d) Mean and Mode

Answer: (d)

117. A cube of side 5 cm is painted on all its faces. If it is sliced into 1 cm^3 cubes, how many cubes of 1 cm^3 will have exactly one of their faces painted ?

- (a) 27
- (b) 142
- (c) 54
- (d) 42

Answer: (c)

118. Find the sum of all the interior angles of a pentagon.

- (a) 180°
- (b) 450°
- (c) 540°
- (d) 360°

Answer: (c)

119. $\frac{4}{7}$ of a pole is in the mud. When $\frac{1}{3}$ of it is pulled out, an 8 meter long piece of the pole still remains in the mud. What is the total length of the pole ?

- (a) 25 metre
- (b) 21 metre
- (c) 12 metre
- (d) 30 metre

Answer: (b)

120. A and B can do a piece of work in 12 days, B and C in 15 days, C and A in 20 days. How long would A take separately to do the same work ?

- (a) 20 days
- (b) 10 days
- (c) 40 days
- (d) 30 days

Answer: (d)

Environmental Studies

121. WWF stands for

- (a) World War Fund
- (b) World Wide Fund
- (c) World Watch Fund
- (d) World Wildlife Fund

Answer: (d)

122. The valley of flowers is located in

- (a) Himanchal Pradesh
- (b) Jammu-Kashmir
- (c) Uttarakhand
- (d) Sikkim

Answer: (c)

123. Which of the following agencies is primarily concerned with the measurement of pollution in India ?

- (a) Central Pollution Control Board
- (b) Green Tribunal
- (c) Survey of India
- (d) Central Water Commission

Answer: (a)

124. 'Cotopaxi' is an active volcano situated in

- (a) Hawaii
- (b) Sicily
- (c) Rockies
- (d) Andes

Answer: (d)

125. Tsangpo river of Tibet in India is known as

- (a) Yamuna
- (b) Ganga
- (c) Indus
- (d) Brahmaputra

Answer: (d)

126. Most Biodiversity is found in

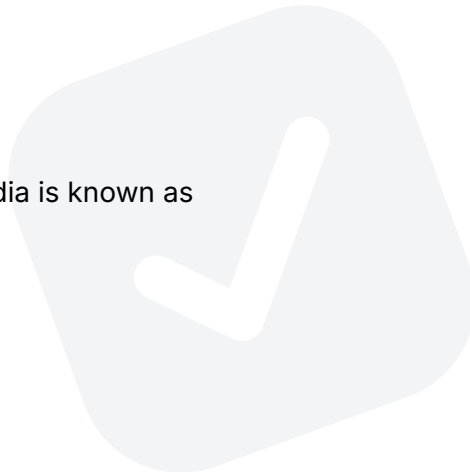
- (a) Surma Valley
- (b) Flower's Valley
- (c) Dorang Valley
- (d) Silent Valley

Answer: (d)

127. What is not true for LPG ?

- (a) High calorific value
- (b) A clean fuel
- (c) Methane emitting
- (d) Burn with blue flame

Answer: (c)



128. The components of the ecosystem are

- (a) Biotic and abiotic substance
- (b) Plants and animals
- (c) Producers, consumers and decomposers
- (d) Producers and consumers

Answer: (a)

129. Tropic of Capricorn is

- (a) $23\frac{1}{2}^{\circ}$ N
- (b) $23\frac{1}{2}^{\circ}$
- (c) 23° S
- (d) $23\frac{1}{2}^{\circ}$ S

Answer: (d)

130. Who coined the term "ecosystem" ?

- (a) Dr. A. G. Tansley
- (b) Dr. R. D. Mishra
- (c) Dr. Wittaker
- (d) Dr. Odum

Answer: (a)

131. The Pole star is

- (a) South star
- (b) North star
- (c) West star
- (d) East star

Answer: (b)

132. 'Project Tiger' was started in India

- (a) 1973 A.D.
- (b) 1972 A.D.
- (c) 1985 A.D.
- (d) 1981 A.D.

Answer: (a)

133. Kanha National Park is located in which Indian State ?

- (a) Madhya Pradesh
- (b) West Bengal
- (c) Gujarat
- (d) Tamil Nadu

Answer: (a)



134. The Lucknow Pact of 1916 was made between

- (a) The Hindu and the Muslims
- (b) The Congress and the Muslim League
- (c) The Moderates and Extremists
- (d) The British and the Indian

Answer: (b)

135. Where is the Wild Ass Sanctuary ?

- (a) In Gujarat
- (b) In Rajasthan
- (c) In Bihar
- (d) In Madhya Pradesh

Answer: (a)

136. In a food chain of grassland ecosystem, the top consumers are

- (a) Carnivorous
- (b) Herbivorous
- (c) Either carnivorous and Herbivorous
- (d) Bacteria

Answer: (a)

137. The main atmospheric layer near the surface of earth is

- (a) Troposphere
- (b) Stratosphere
- (c) Ionosphere
- (d) Mesosphere

Answer: (a)

138. The Biodiversity Act was passed by the Indian Parliament

- (a) 10th December, 1980
- (b) 11th May, 1972
- (c) 11th December, 2002
- (d) 16th October, 1990

Answer: (c)

139. Which one of the following agriculture practices is eco-friendly ?

- (a) Growing plants in glass house
- (b) Shifting cultivation
- (c) Organic farming
- (d) Cultivation of high yielding varieties

Answer: (c)

140. Acid rain is concerned with presence of

- (a) Sulphuric acid
- (b) Hydrochloric acid
- (c) Boric acid
- (d) Acetic acid

Answer: (a)

141. Carbon dating refers to

- (a) Measurement of age of bones or materials in ancient sites
- (b) Measurement of strength of rocks
- (c) All of these
- (d) Use of carbon for writing on white board

Answer: (a)

142. The Constituent Assembly adopted National Anthem on

- (a) 24 January 1950
- (b) 20 January 1950
- (c) 13 November 1949
- (d) 21 May 1949

Answer: (a)

143. Biomagnification is

- (a) increasing size of organism
- (b) increasing concentration of a toxic substance in the tissues over time
- (c) all of these
- (d) to increase the size of picture using computer

Answer: (b)

144. Which of the following is not a abiotic component of biosphere ?

- (a) Soil
- (b) Protein
- (c) Phosphorus
- (d) Fungi

Answer: (d)

145. The headquarter of Green Peace International is located in

- (a) Sydney
- (b) New York
- (c) Nagasaki
- (d) Amsterdam

Answer: (d)

146. The problem of water pollution with Arsenic is maximum in

- (a) Madhya Pradesh
- (b) Uttar Pradesh
- (c) West Bengal
- (d) Bihar

Answer: (c)

147. Deccan of the Western Ghats in India is drier because of

- (a) high altitude effect
- (b) low temperature effect
- (c) pressure effect
- (d) rain shadow effect

Answer: (d)

148. The Wildlife Protection Act was passed in

- (a) 1962 A.D.
- (b) 1960 A.D.
- (c) 1975 A.D.
- (d) 1972 A.D.

Answer: (d)

149. Solar radiation per unit area received at the outer limit of atmosphere is known as

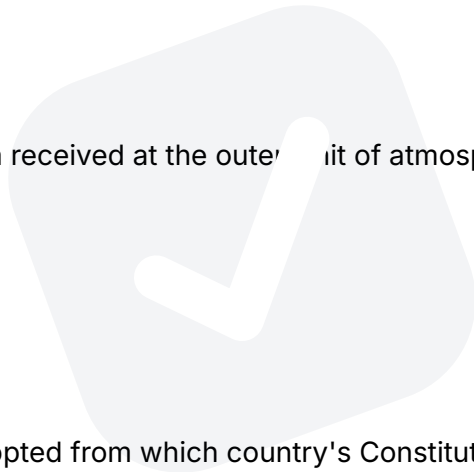
- (a) Solar energy
- (b) Insolation
- (c) Heat budget
- (d) Solar constant

Answer: (d)

150. Fundamental duties are adopted from which country's Constitution ?

- (a) United Kingdom
- (b) Germany
- (c) USSR
- (d) USA

Answer: (c)



Answer key

Answer key from the Uttar Pradesh Education Service Selection Commission's official answer key for this sitting.
"—" means the key gave none.

Child Development and Teaching Method

1	(a)	2	(b)	3	(a)	4	(a)	5	(a)	6	(b)	7	(a)	8	—
9	(b)	10	(a)	11	(c)	12	(a)	13	(c)	14	(a)	15	(a)	16	(b)
17	(a)	18	(d)	19	(c)	20	(d)	21	(b)	22	(a)	23	(d)	24	(b)
25	(a)	26	(a)	27	(d)	28	(d)	29	(b)	30	(c)				

Language I Hindi

31	(a)	32	(a)	33	(d)	34	(c)	35	(c)	36	(c)	37	(d)	38	(a)
39	(b)	40	(d)	41	(c)	42	(d)	43	(c)	44	(c)	45	(c)	46	(b)
47	(a)	48	(c)	49	(a)	50	(c)	51	(b)	52	(d)	53	(b)	54	(c)
55	(b)	56	(b)	57	(d)	58	(a)	59	(d)	60	(b)				

Language II English

61	(d)	62	(a)	63	(c)	64	(d)	65	(d)	66	(b)	67	(b)	68	(a)
69	(c)	70	(d)	71	(c)	72	(a)	73	(b)	74	(a)	75	—	76	(d)
77	(b)	78	(c)	79	(d)	80	(d)	81	(d)	82	(d)	83	(b)	84	—
85	(b)	86	(c)	87	—	88	(a)	89	(d)	90	(a)				

Mathematics

91	(c)	92	(d)	93	(a)	94	(b)	95	(b)	96	(b)	97	(d)	98	(b)
99	(b)	100	(a)	101	(a)	102	(c)	103	(c)	104	(c)	105	(b)	106	(c)
107	(d)	108	(b)	109	(d)	110	(b)	111	(d)	112	(c)	113	(b)	114	(c)
115	(d)	116	(d)	117	(c)	118	(c)	119	(b)	120	(d)				

Environmental Studies

121	(d)	122	(c)	123	(a)	124	(d)	125	(d)	126	(d)	127	(c)	128	(a)
129	(d)	130	(a)	131	(b)	132	(a)	133	(a)	134	(b)	135	(a)	136	(a)
137	(a)	138	(c)	139	(c)	140	(a)	141	(a)	142	(a)	143	(b)	144	(d)
145	(d)	146	(c)	147	(d)	148	(d)	149	(d)	150	(c)				