Instructions for the Candidates:

1. The OMR Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars carefully with blue/black ball point pen only.

2. The test is of two-and-half hours duration and consists of 150 questions. There is no negative marking.

3. Use Blue/Black Ball Point Pen only for writing particulars on this page/darkening responses in the Answer Sheet. The candidate should remain careful in handling the question paper and in darkening the responses on the answer sheet. Another booklet set will not be given.

4. Also ensure that your Test Booklet Serial No. and Answer Sheet Serial No. are the same. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.

5. Level-3 (For Lecturer)
   Part-I: Child Development and Pedagogy (Q. 1 to Q. 30)
   Part-II: Language-I (Hindi) (Q. 31 to Q. 60)
   Part-III: Language-II (English) (Q. 61 to Q. 90)
   Part-IV: Biology (Q. 91 to Q. 150)

Note: Read other remaining instructions given on the last page of this Booklet.
(2)
रफ कार्य के लिए / FOR ROUGH WORK
भाग – I/PART – I
बाल विकास एवं शिक्षाशास्त्र / CHILD DEVELOPMENT AND PEDAGOGY

निर्देश : निम्नलिखित प्रश्नों के उत्तर देने के लिए सबसे उचित विकल्प चुनिए।

Direction : Answer the following questions by selecting the most appropriate option.

1. किशोरावस्था में बालकों को तहयोग देने के लिए आवश्यक है
   (1) अभिमन्युरण
   (2) गलती निकालना
   (3) आलोचना करना
   (4) नकारात्मक व्यवहार करना

2. एक बालक के सामाजिक निर्माण हेतु अध्यापक द्वारा अपनायी गई निम्नलिखित मे से कौन-सी प्रविष्टि उपयुक्त नहीं है?
   (1) प्रवृत्ति विचार
   (2) ताकदीकरण
   (3) प्राचीन समय अनुशासन
   (4) अति-संकट

3. एक किशोर के संगमर्म के विषय में निम्नलिखित मे से गलत कथन कौन-सा है?
   (1) संवेदन अभिव्यक्ति अधिमल द्वारा परिवर्तित होती है।
   (2) संवेदन स्वाभाविक होता है।
   (3) प्रश्न संवेदन से एक भावना जुड़ी होती है।
   (4) संवेदन बाद उद्देश्यों से जाप्रत्य होता है।

4. संमेलित शिक्षा के तत्वों है?
   (1) व्यक्तिगत भिन्नताओं को सामान्य कक्षा-कक्ष में पूरा करना।
   (2) व्यक्तिगत भिन्नताओं को विभिन्न कक्षा-कक्ष में पूरा करना।
   (3) व्यक्तिगत भिन्नताओं को विशेष विद्यालयों में पूरा करना।
   (4) व्यक्तिगत भिन्नताओं की धर पर अनुसंधान देकर पूरा करना।

1. To cooperate the adolescent it is essential to
   (1) Inspire
   (2) Indicate his mistakes
   (3) Criticise him
   (4) Do negative behaviour

2. Which of the following is not a suitable technique used by teachers for socializing the child?
   (1) Direct teaching
   (2) Identification
   (3) Democratic discipline
   (4) Over-protection

3. Which of the following is a wrong statement about emotions of an adolescent?
   (1) Emotional expressions are modified by learning.
   (2) Emotions are permanent.
   (3) Every emotion is accompanied by a feeling.
   (4) Emotions are aroused by external stimuli.

4. Inclusive education means
   (1) Meeting individual differences in general classroom.
   (2) Meeting individual differences in different classroom.
   (3) Meeting individual differences in special schools.
   (4) Meeting individual differences in home based instruction.

Level-3/177

P. T. O.
5. In adolescence behaviour and attitude are affected mostly by
   (1) Teacher
   (2) Parents
   (3) Peer Groups
   (4) Films

6. Moral values can be effectively inculcated among the students when teacher
   (1) Frequently talks about values.
   (2) Himself practices them.
   (3) Tells stories of good persons.
   (4) Talks of Gods and Goddesses.

7. Critical thinking helps a person in developing abilities and skills for
   (1) providing concrete experiences.
   (2) proper interpretation, analysis, evaluation and inference.
   (3) creating and constructing something.
   (4) thinking about ways of reacting.

8. Best method of dealing with adolescent by parents and teachers is
   (1) Autocratic (2) Permissive
   (3) Democratic (4) Restrictive

9. Which of the following is not a characteristic of social development in adolescence?
   (1) Active member of their peer group
   (2) Being an attraction towards opposite sex
   (3) High decrease in friendly relationship
   (4) Extension of special interests
10. An adolescent uses her/his left hand for performing act like taking food or writing, this is developed due to
   (1) Inherited behaviour
   (2) Developmental behaviour
   (3) Wrong behaviour
   (4) All options are right

11. Discalculia is a problem related to the problem of
   (1) Speaking accurately
   (2) Writing without committing mistakes
   (3) Listening message properly
   (4) Doing mathematical calculations

12. Continuous and Comprehensive Evaluation (CCE) aims to evaluate
   (1) The reasoning of child only.
   (2) All aspects of development of child.
   (3) The knowledge of child only.
   (4) The understanding of child only.

13. Which of the following is not a trait (ability) of a creative child?
   (1) Elaboration
   (2) Originality
   (3) Accuracy
   (4) Novelty

14. Learning outcomes means
   (1) Change in the behaviour of the student.
   (2) Change in teaching method of the teacher.
   (3) Recognition of the subject-matter.
   (4) Completion of content.
15. Differentiation of emotions takes place at the time of
(1) Birth of child
(2) During infancy
(3) During the period of adolescence
(4) During adulthood

16. Which of the following provision is not suitable to meet individual differences among learners?
(1) Their abilities should be assessed.
(2) Adequate facilities and material should be provided.
(3) Labelling them.
(4) Making Individualisation necessary.

17. Working with adolescents, particularly maladjusted one, which is not appropriate?
(1) Critical approach
(2) Democratic approach
(3) Collective approach
(4) Ideal approach

18. Heredity plays most important role in the
(1) Emotional development of the child
(2) Social development of the child
(3) Physical development of the child
(4) Cultural development of the child
19. The knowledge of principles of learning is must for a good teacher, because
(1) It helps in maintaining discipline.
(2) It helps to make content interesting.
(3) It helps to understand the content by simple methods.
(4) It saves time.

20. Which of the following characteristic is not correct about objective type testing?
(1) Reliability (2) Objectivity (3) Validity (4) Subjectivity

21. Which of the following is the characteristics of constructivist classroom?
(1) Students design experiments, draws conclusions and compare their findings.
(2) Knowledge is objective, universal and complete.
(3) Teacher transmits authoritative knowledge to students.
(4) Students look for the 'right' answer.

22. Which of the following is the primary law of learning propounded by Thorndike?
(1) Law of analogy (2) Law of exercise (3) Law of assimilation (4) Law of disposition

Level-3/177
23. According to Piaget the child is able to apply logical thoughts to all classes of problems, this development occurs in which of the following periods?

(1) The formal operational period
(2) The concrete operational period
(3) The pre-operational period
(4) The sensory motor period

24. A child is average on creativity, high in academic achievement, poor in social development. This is an example of

(1) Inter individual differences
(2) Intra individual differences
(3) Individual differences
(4) Measurable individual differences

25. That internal state of mind that arouses, directs and maintains behaviour is called as

(1) Interest  (2) Opinion
(3) Attitude  (4) Motivation

26. Some people adjust easily with new people because they have high

(1) Intelligence Quotient (I.Q.).
(2) Academic Quotient (A.Q.).
(3) Emotional Quotient (E.Q.).
(4) Spiritual Quotient (S.Q.).

27. Development generally proceeds from head to foot, this principle of development is called

(1) Bilateral to unilaterall
(2) Proximodistal
(3) General to specific
(4) Cephalo Caudal
28. A student is working hard for Board Examination, his father has promised to give him a motor cycle if he gets good marks. This is
(1) Intrinsic motivation
(2) Extrinsic motivation
(3) Mathematical motivation
(4) Intrinsic and extrinsic motivation

29. Which of the following statements is not correct about learner centred approach?
(1) It takes into account learner's capabilities, capacities and learning styles.
(2) It stresses the importance of enquiry, observation and investigation.
(3) It emphasises transmitting knowledge to the learner by the teacher.
(4) It uses methods like experiential learning, problem solving, concept mapping and creative writing.

30. A child's attitude 'I do not care' is a type of behaviour which can be called
(1) Aggression
(2) Defence
(3) Denial
(4) Retrogression
31. अशुद्ध विकल्प को पहचानिए
   (1) विश्वासित्र = विश्व + मित्र
   (2) मूसलमान = मूसल + धर
   (3) सभी = सब + ही
   (4) दीनानाथ = दीना + नाथ

32. ‘वाणी’ शब्द में कौन-सा प्रत्यय लगा है?
   (1) य (2) एप (3) ह (4) आप

33. ‘वह जिस पर हमला किया गया हो’ – के लिए एक शब्द चुनें
   (1) आमतौर (2) आधार (3) आकांत (4) आकांत

34. ‘जो गायिका अपने प्रेमी से मिलने सवर्य जाये’ – के लिए एक शब्द है
   (1) पुराण (2) अभियात्रिक (3) प्राप्तिपत्र (4) स्वर्यांगमन

35. निम्न शब्दों में से कौन-सा शब्द ‘खंड’ है?
   (1) गाय (2) विधालय (3) लम्बाड़र (4) पंकज

36. “यदि तुम आते तो मैं भी तुम्हारे साथ चलता।”
   इस वाक्य हेतु सही काल है
   (1) आसन भूतकाल (2) हेतुहेतुमुख भूतकाल (3) साध्य भूतकाल (4) अपूर्ण भूतकाल

37. ‘जिसका जन्म अविवहित कन्या के गर्म से हुआ हो’ – के लिए शुद्ध शब्द है
   (1) कन्यापुज (2) कन्यीन (3) अवैय पुत्र (4) कुमारसूत

38. किस शब्द में समास का उपरी छोटी का निष्ठु नहीं, आपितु विभक्ति सहित प्रयोग किया गया है?
   (1) सरसिज (2) कृतज (3) स्वर (4) स्वरणीराम

39. किस शब्द में ‘ले’ प्रत्यय का प्रयोग शुद्ध रूप से नहीं हुआ है?
   (1) उर्वरसमी (2) सानी (3) तपस्वी (4) मायावी
40. 'भी खाना खा चुका हूँ।' इस वाक्य में भूतालकिक भेद इंगित कीजिए।
   (1) पूर्ण भूत
   (2) सामान्य भूत
   (3) आत्मन भूत
   (4) संदिग्ध भूत

41. व्यक्तिगत की दृष्टि से 'प्रेम' शब्द क्या है?
   (1) अस्वयम
   (2) भावनावाक संज्ञा
   (3) विशेषण
   (4) शुद्धता

42. कौन-सा शब्द 'धनुष' का पर्यायवाची नहीं है?
   (1) कोदड
   (2) विशेषावसन
   (3) चाप
   (4) विशिष्ट

43. 'गरद' शब्द की सही व्युपति है?
   (1) गृह + व
   (2) गृह + अ
   (3) गृह + अव
   (4) गृह + व

44. 'योगीश्वर' शब्द का सम्पूर्ण संधि विच्छेद होगा?
   (1) योगी + इश्वर
   (2) योगि + इश्वर
   (3) योगिन + श्वर
   (4) योगि + इश्वर

45. हिंदी की 'क' व्यस्म व्यक्ति की दृष्टि में है?
   (1) अल्पप्राप्त-स्वाधिक
   (2) महाप्राप्त-स्वाधिक
   (3) अल्पप्राप्त-अवधिक
   (4) महाप्राप्त-अवधिक

46. 'सहात्मक' शब्द में उपयुक्त समाक का चयन करें?
   (1) ब्रह्मेन तत्तुसार
   (2) वृत्तिया तत्तुसार
   (3) प्रेमी तत्तुसार
   (4) चतुर्वी तत्तुसार

47. 'शूल गए रगं रंग शूल गए छकड़ी, तीन चीज़ यह रही नृन, तेल, लकड़ी' – लोकोंकित के लिए सही अर्थ का चयन कीजिए.
   (1) महेंद्र के आगे की किस्मत
   (2) नृन, तेल, लकड़ी के नाम संसार अमृतरा है
   (3) अल्पावश्यक वस्तुओं से ही प्रेम
   (4) गृहस्थ के चक्कर में फैंस जाना

48. उपसर्ग रहित शब्द है?
   (1) सुरेश
   (2) लुयोग
   (3) अल्पविक
   (4) विदेश

49. अस्थिर दिक्षण की चुनें?
   (1) आर्थ-अनार्थ
   (2) उद्धयत-समुद्रत
   (3) उन्मीलन-निमीलन
   (4) आर्थ-ग्रांथ
50. ‘किताब’ किस भाषा का शब्द है?
   (1) अरबी
   (2) फ़ारसी
   (3) अंग्रेजी
   (4) हिंदी

51. ‘बंदूक एक उपयोगी ………… है।’ रिक्त स्थान के लिए, सही शब्द का चयन करें
   (1) अस्त्र
   (2) शस्त्र
   (3) रक्षा
   (4) ओजार

52. किस शब्द में कर्मशास्त्रीय समाज का प्रयोग नहीं हुआ है?
   (1) कार्यार्थ
   (2) जनामदेश
   (3) कृषिशास्त्र
   (4) कर्मशास्त्र

53. ‘नेत्री’ शब्द का पुनःलग क्या होगा?
   (1) नेत्राय
   (2) नेत्रु
   (3) नेत्रा
   (4) अभिनेत्रा

54. किस शब्द में विसर्जन संधि का प्रयोग नहीं हुआ है?
   (1) नभोमण्डल
   (2) शिशरभाग
   (3) शूष्णितज्ञ
   (4) सर्वोच्चमुखी

55. कमर वर्तनी वाला शब्द छात्र्यं
   (1) योगमण्डल
   (2) वाणि
   (3) नासा
   (4) नापानुसार
57. गीतम सुंदर वरिष्ठी थे:

(i) हीनवान सम्राट के
(ii) महावीर सम्राट के
(iii) वर्ण व्यवस्था के
(iv) सूचि विषयक परिवर्तन के

उपरोक्त उत्तर विकल्प को चुनिए:

(1) (i) एवं (iv)
(2) (iii) एवं (iv)
(3) केवल (iii)
(4) केवल (ii)

58. भारत की राजनीतिक प्रणाली को अवधारित दिया

(1) शक्ति (२) यूनानियों (३) कुशानों (४) वीं शताब्दी

59. विषयस्थल वे भावाध्य है

(1) दोहराव
(2) दिशाधिकरण
(3) वक्ता
(4) महिमा मंडन

60. स्वतंत्रतन्त्र भारत में वैश्विक विलास है

(1) आधुनिकता
(2) परिवर्तन का अवगाहन
(3) अर्थशास्त्र की विकल्प एवं चिह्न

56. भारतीय समाज की विशेषता है

(1) धर्म परिपार्वत्य वाद
(2) परिपार्वत्य विशेष
(3) परिपार्वत्य के साध परिवर्तन
(4) सभी विकल्प गलत हैं
61. Choose the **correct** passive form of the verb in bracket in the given sentence:
   I suddenly realized I (watch).
   (1) am being watched
   (2) have been watched
   (3) am watched
   (4) was being watched

62. I must finish this.
   The underlined word in the above sentence indicates
   (1) Necessity
   (2) Determination
   (3) Wish
   (4) Habit

63. Choose the **correct** suffix to form the word. The meaning of the word is given:
   Copi........ = Plentiful
   (1) ous
   (2) some
   (3) ose
   (4) ful

64. 'I don’t enjoy going to the dentist.'
   The word 'going' in the above sentence is a/an
   (1) Present participle
   (2) Infinitive
   (3) Perfect participle
   (4) Gerund

65. Choose the **correct** indirect speech of the given sentence:
   Mother said, "Don’t go to the park."
   (1) Mother asked us not to go to the park.
   (2) Mother told us not to go to the park.
   (3) Mother said us not to go to the park.
   (4) Mother said to us to not to go to the park.

66. Which of the following expression means 'extremely happy'?
   (1) be a basket case
   (2) fall off your perch
   (3) be off your trolley
   (4) on cloud nine
67. Choose the correct passive construction of the sentence:
Auctioneers will sell the painting at auction.
(1) The painting would be sold at auction.
(2) The painting will be sold by the auctioneers at auction.
(3) The painting will be sold at auction.
(4) The painting will be selling at auction.

68. Identify the figure of speech in the following sentence:
I must be cruel, only to be kind.
(1) Epigram
(2) Paradox
(3) Analogy
(4) Metaphor

69. Which of the following words is misspelt?
(1) incongruous
(2) chronological
(3) synchronus
(4) sympathetic

Direction: (Q. Nos. 70 to 74): Select the sentence that is grammatically correct:

70. (1) My brother is the student in Mayo College.
(2) My brother is student of Mayo College.
(3) My brother is a student in the Mayo College.
(4) My brother is a student in Mayo College.

71. (1) Neither of them were present there.
(2) Neither of them was present there.
(3) Neither of them present there.
(4) Neither of them are present there.

72. (1) The roses smell sweet.
(2) The roses smell sweetly.
(3) The roses are smelling sweetly.
(4) The roses are sweetly smelling.
73. (1) You certainly did not ought to do it.
(2) You certainly ought not to have done it.
(3) You certainly did not ought to have done it.
(4) You certainly ought not to have been done it.

74. (1) Who was the book given to?
(2) Who the book was given to?
(3) The book was given to who?
(4) Whom was the book given to?

75. Choose the correct phonetic transcription of the word 'Locate'
(1) /luket/
(2) /lokeit/
(3) /lou'keit/
(4) /lauket/

76. Choose the correct direct speech of the given reported speech:
He said I'd better go because it was late.
(1) He said, "You'd better go because it's late."
(2) He said, "I'd better go because it was late."
(3) He said, "You'd better be gone because it was late."
(4) He said, "You'd better go because it was late."

77. Which of the following is spelt correctly?
(1) Pediatrician
(2) Padritician
(3) Pedaitrician
(4) Pidiatrician

78. In which of the following sentences do we need to insert the definite article 'the'?
(1) They are all busy growing things.
(2) We do not generally speak of farmers 'growing animals'.
(3) Why do people work?
(4) They are different from rest.
79. Which of the following sentences is correct?
(1) My father's foot was put down when I said I wanted a car for my seventeenth birthday. He said I was too young.
(2) My father down put the foot when I said I wanted a car for my seventeenth birthday. He said I am too young.
(3) My father put his foot down when I said I wanted a car for my seventeenth birthday. He said I was too young.
(4) All options are wrong

80. Since you were not there, I left a message with your sister.
The underlined group of words in the above sentence is a/an
(1) Noun Clause
(2) Adverb Clause of place
(3) Adverb Clause of time
(4) Adverb Clause of reason

Directions: (Q. Nos. 81 to 85): Read the following passage and answer the questions by choosing most appropriate option:

Common sense is a rare and enviable quality. It may be truly said that 'its price is above rubies'. How many learned men, how many wits, how many geniuses, how many dull and ignorant people, how many cunning knaves, how many well-meaning fools are without it! How few have it, how little do they or others know of it, except from the infallible results — for one of its first requisites is the utter absence of all pretension.

The vulgar laugh at the pedant and enthusiast for the want of it, while they themselves mistake bigotry and narrow minded notions for it. It is not one of the sciences, but has been well pronounced to be 'fairly worth the seven'. It is a kind of mental instinct, that feels the air of truth and propriety as the fingers feel objects of touch. It does not consist with ignorance for we cannot pronounce on what we do not know; and on the other hand, the laying in of a stock of knowledge, or mastering any art or science seems to destroy that native simplicity and to warp and trammel the unbiased freedom of mind which is necessary to its receiving and giving their due weight to ordinary and casual impressions.

81. Common sense is a rare and enviable quality because
(1) Its price is above rubies
(2) All learned men have it
(3) All men are without it
(4) Very few have it

Level-3/177
82. What is not a requisite of common sense?
   (1) the utter absence of all pretension
   (2) bigotry and narrow minded notions
   (3) truth and propriety
   (4) an unbiased freedom of mind

83. Which of the following is not stated by the writer in the passage?
   (1) Affectation destroys common sense.
   (2) Common sense requires the utmost simplicity and sincerity.
   (3) Common sense feels the air of truth and propriety as the fingers feel objects of touch.
   (4) Common sense destroys the native simplicity and warps and trammels the freedom of mind.

84. Fill in the blank with the most appropriate word:
   Common sense has been well pronounced to be ‘fairly worth the seven’ .................
   (1) Notions (2) Sciences
   (3) Talents (4) Wits

85. Which is not a synonym of the word 'pedant'?
   (1) dogmatist
   (2) formalist
   (3) perfectionist
   (4) down-to-earth

Direction: (Q. Nos. 86 to 90): Fill in the blanks with the most suitable option:

86. ............ child should learn to read and write.
   (1) All (2) Every
   (3) Whole (4) Both

87. Can I ask your ............, do you think TV violence is harmful?
   (1) opinion (2) favour
   (3) question (4) advice

88. Where is my wallet? I left it ............ the kitchen table.
   (1) at (2) in
   (3) on (4) by

89. Take some medicine and the pain will go ............
   (1) back (2) off
   (3) out (4) away

90. The walkers finally arrived at their destination. They ............ all day, and they certainly needed a rest. They ...... thirty miles.
   (1) had been walking; had walked
   (2) had walked; had been walking
   (3) walked; walked
   (4) have been walking; had walked

Level-3/177
### Direction: Answer the following questions by selecting the most appropriate option.

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
</table>
| 91. Chimaeric DNA is | (1) DNA synthesized from RNA  
(2) DNA having uracil  
(3) Recombinant DNA  
(4) Single stranded DNA |
| 92. Joint present between atlas and axis vertebrae is | (1) Saddle joint  
(2) Fibrous joint  
(3) Pivot joint  
(4) Hinge joint |
| 93. In genetic fingerprinting, the 'Probe' refer to | (1) a radioactively labelled double stranded RNA molecule  
(2) a radioactively labelled single stranded DNA molecule  
(3) a radioactively labelled single stranded RNA molecule  
(4) a radioactively labelled double stranded DNA molecule |
| 94. Cowper's gland is an accessory sex gland of male Rabbit's reproductive system, its | (1) white alkaline secretion activate the passive spermatozoa.  
(2) secretion neutralizes acidity for the protection of spermatozoa.  
(3) secretion provides characteristic smell to rabbit.  
(4) secretion increases number of spermatozoa. |
95. G-6-P dehydrogenase deficiency is associated with hemolysis of
   (1) Lymphocytes
   (2) RBCs
   (3) Platelets
   (4) Leucocytes

96. The desired variety of economically useful crops are raised by
   (1) Vernalization
   (2) Mutation
   (3) Natural selection
   (4) Hybridization

97. In Bryophyllum reproduction occurs through
   (1) Stem  (2) Leaf
   (3) Flower  (4) Root

98. Protostome have
   (1) Spiral and determinate cleavage and enterocoel
   (2) Spiral and determinate cleavage and schizocoel
   (3) Radial and indeterminate cleavage and schizocoel
   (4) Radial and determinate cleavage and schizocoel

99. Reotaxis is a movement response in
   (1) Temperature
   (2) Air or water current
   (3) Touch
   (4) Noise
100. Sickle cell anaemia, caused by a point mutation. This mutation cause change in amino acid from
(1) Glutamate to Glycine
(2) Lycine to Valine
(3) Glutamate to Valine
(4) Valine to Lycine

101. Which one of the following pair is *incorrectly* matched?
(1) Insulin – Diabetes mellitus
(2) Glucagon – Beta cells of pancreas
(3) Somatostatin – Inhibitory hormone
(4) Corpus luteum – Source of progesterone

102. Which one of the following is Autosomal dominant Mendelian disorders?
(1) Sickle cell anaemia
(2) Phenyl ketoneura
(3) Huntington's chorea
(4) Haemophilia

103. Enzyme responsible for breaking the phospho-di-ester bonds of a nucleic acid is
(1) Nuclease (2) Ligase
(3) Lyase (4) Phosphatase

104. Which one of the following is not required during Polymerase Chain Reaction (PCR)?
(1) DNA template
(2) Chitinase enzyme
(3) Nucleotide primers
(4) DNA polymerase enzyme
105. Statocyst is a sense organ, which is present in
   (1) Apple snail
   (2) Spider
   (3) Scolidon
   (4) Frog

106. Which one of the following is not an exclusive group of Crustacean larva?
   (1) Phyllosoma, Megalopa, Alima
   (2) Nauplius, Protozoa, Schizopoda
   (3) Echinopluteus, Metanauplius, Nauplius
   (4) Phyllosoma, Cypris, Megalopa

107. Baculovirus are such pathogens that
   (1) attacks on bacteria and fungus.
   (2) have broad spectrum insecticidal application.
   (3) have negative impact on plants and birds.
   (4) majority of them are in the genus nucleopolyhedrovirus.

108. Which one of the following is not true about poisonous snakes?
   (1) A poisonous apparatus in head and a pair of fangs in upper jaw.
   (2) Belly scales or ventral scales are not fully broad to cover belly.
   (3) Head scales are small. A loreal pit present between nostril and eye.
   (4) Tail laterally compressed and Oar-like.
109. मुग्नि का सबसे सामान्य रोग है
   (1) एपोप्लेक्सी (2) रानीकेत (3) यायरिया
   (4) रोयोपोवियस

110. निम्नलिखित में से कौन-सा सुमेलित नहीं है?
   (1) मिनामाता बीमारी - मक्की प्रदूषण
   (2) इटाई-इटाई बीमारी - लेड (सीसा) प्रदूषण
   (3) ब्लू बेबी बीमारी - मेथाइमोर्फिक
   (4) ब्लैक फुट बीमारी - आर्सिनिक संदूषण

111. नीला इंकमें a, b, c, d जीन के बीच की दूरी का इस प्रकार है:
   a - d = 3.5; b - c = 1; a - b = 6; c - d = 1.5; a - c = 5
   इन जीन की क्रमानुसार व्यवस्था जाता कैसे?
   (1) a b c d (2) a b c d (3) a c b d (4) a c b d

112. संक्रमित प्रोटीन पाई जाती है?
   (1) नॉमोनो वायरस में
   (2) नीला वायरस में
   (3) ब्लैक फुट वायरस में
   (4) सेंटिनेल वायरस में

113. कार्बोनिक्स मधुलियों के सन्दर्भ में निम्न कथनों को पढ़ें:
   a. नारे के अंत फिल में कैलेस्पर पाया जाता है।
   b. हृदय दिवकर जीवी में होता है जिसमें एक आल्स एमें अन्त लिल स्वर माना जाता है।
   c. खुंब अन्तर, जिसमें दोत हाउसार्ड पल्सोड लिल बक्स व पीछे की ओर अनुसंधानित होता है।
   d. बाक्स नवंबर की अनुपस्थिति के कारण, ये मुक्त रहते हैं।
   उपर्युक्त में से कौन कथन क्या है?
   (1) a, b और c (2) b, c और d (3) a, b, c और d (4) b और d केवल

Level-3/177

109. Most common disease of poultry is
   (1) Apoplexy (2) Spirochaetosis
   (3) Ranikhet (4) Diarrhoea

110. Which one of the following is not correctly matched?
   (1) Minamata disease – Mercury pollution
   (2) Etai-etai disease – Lead pollution
   (3) Blue baby disease – Methaemoglobin
   (4) Black foot disease – Arsenic contamination

111. The distance between the genes a, b, c, d in mapping unit are:
   a - d = 3.5; b - c = 1; a - b = 6; c - d = 1.5; a - c = 5
   Find out the sequence of arrangement of these genes
   (1) a b c d (2) a b c d (3) a c b d (4) a c b d

112. Infectious proteins are present in
   (1) Gemini viruses
   (2) Prions
   (3) Viroids
   (4) Satellite viruses

113. Read the following statements with respect to cartilaginous fishes:
   a. In males pectoral fins bear clasper.
   b. Heart have two chambered with one atrium and one ventricle.
   c. Mouth is terminal in which teeth are modified placoid scales are backwardly directed.
   d. Due to absence of swim/air bladder, they have to swim constantly to avoid sinking.
   Correct options from above are
   (1) a, b and c (2) b, c and d
   (3) a, b, c and d (4) b and d only

P. T. O.
114. In Eukaryotes RNA polymerase-II transcribes
   (1) 28s rRNA
   (2) 5s rRNA
   (3) tRNA
   (4) heterogeneous nuclear RNA (hnRNA)

115. Syndactyly is due to
   (1) Multiple gene inheritance
   (2) Codominance
   (3) Polymorphic gene
   (4) Cytoplasmic inheritance

116. Which one of the following is known as "Terror of Bengal"?
    (1) Hydrilla
    (2) Eichhornia crassipes
    (3) Valinsaria
    (4) Zostera

117. Which of the following is not synthesized from amino acid precursor?
    (1) Cholesterol
    (2) Chlorophyll
    (3) Cytochrome
    (4) Heme

118. Sponges have high capacity to regenerate. This needs
    (1) Ca and Mg ions
    (2) Na and K ions
    (3) Cl and NO₃ ions
    (4) Na and NO₃ ions

119. Which one of the following is included in mesenchymal coelomate?
    (1) Phoronida
    (2) Brachiopoda
    (3) Gastrotricha
    (4) Chaetognatha
120. Gynobasic style is the characteristic features of
(1) Lamiaceae
(2) Fabaceae
(3) Asclepiadaceae
(4) Apocynaceae

121. Which one of the following is a part of pelvic girdle of fowl?
(1) Clavicle (2) Coracoid
(3) Scapula (4) Pubis

122. Which one of the following is not used as a biopesticide?
(1) Trichoderma harzianum
(2) Nuclear polyhedrovirus
(3) Xanthomonas campestris
(4) Bacillus thuringiensis

123. The synthesis of protein starts from
(1) C-terminal amino acid
(2) N-terminal amino acid
(3) Intermediate position in both directions
(4) K-terminal amino acid

124. Which one of the following vector is responsible for Chikunguniya?
(1) Male Anopheles mosquito
(2) Aedes mosquito
(3) Plasmodium falciparum
(4) Female Anopheles mosquito

125. Nuclear membrane is absent in
(1) Penicillium (2) Agaricus
(3) Volvox (4) Nostoc

126. In marine fishes excessive salt from the body is removed by
(1) Small intestine
(2) Protonephrons
(3) Scroll valve
(4) Gills
127. Resistant transgenic cotton has been produced by inserting a piece of DNA from
(1) an insect
(2) a bacterium
(3) a relative of cotton
(4) a virus

128. Bt toxin genes which control the cotton Boll worm is
(1) Cry II Ac
(2) Cry III Ab
(3) Cry 1 Ab
(4) Cry I Ac and Cry II Ab

129. Number of meiotic division required to produce 100 seeds in family Cyperaceae
(1) 125  (2) 200
(3) 100  (4) 50

130. Diaapedesis means
(1) Movement of food in gut
(2) Formation of WBCs
(3) The process by which monocytes and neutrophils squeezes through thin capillary wall
(4) Formation of RBCs

131. Which one of the following is not the function of A.N.F. (Atrial Natriuretic Factor) ?
(1) Dialation of blood vessel
(2) Decrease of blood pressure
(3) Check on renin-angiotensin mechanism
(4) Regulation of respiratory rate
132. Which algae helps in fixation of atmospheric nitrogen?
(1) Chlorella
(2) Nostoc
(3) Spirogyra
(4) Chlamydomonas

133. Group of vestigial organs is
(1) wisdom-tooth, skin and appendix
(2) vermiform appendix, and external ear muscles in man
(3) fingers, external ear and wisdom-tooth
(4) Vermiform appendix and rectum

134. Lispro is
(1) a lysine rich protein which facilitates transport of insulin across membrane.
(2) a protein with several repeats of Lys-pro which help in transport of insulin.
(3) a form of insulin in which the order of amino acids proline (28) and lysine (29) in A chain has been reversed.
(4) a protein normally recommended to persons with lysine deficiency.

135. Mineral required for biosynthesis of Auxins is
(1) Mn
(2) Mg
(3) Zn
(4) Fe
136. Somaclonal variations can be obtained by
  (1) Application of chlorthicine
  (2) Hybridization
  (3) Irradiation by gamma-rays
  (4) Tissue culture

137. Plant disease that results from natural genetic engineering is
  (1) Leaf gall of Pongamia
  (2) Witches Broom disease
  (3) Crown gall disease
  (4) Green ear disease

138. Coprophilous means fungi which grown on
  (1) Organic matter
  (2) Wood
  (3) Dung
  (4) Other fungi
142. Black rust of wheat is caused by
   (1) Alternaria solani
   (2) Ustilago nuda
   (3) Puccinia graminis
   (4) Xanthomonas oryzae

143. Syncial theory, which was proposed by Hanson and Hadgi, explains
   (1) Origin of life
   (2) Origin of metazoa
   (3) Origin of enterocoelom
   (4) Origin of segmentation

144. Dobson Unit measures
   (1) Wavelength of UV radiation
   (2) Salinity of soil near sea shore
   (3) Concentration of a hormone, release by thymus gland
   (4) Thickness (density) of ozone in a column of air from ground to top of the atmosphere

145. The phenomenon involving transformation of non-sexual Neries individual into sexual heteronereis is known as
   (1) Epistasis (2) Epispadiasis
   (3) Epitoky (4) Epiphysitis

146. Number of genes present in Y chromosome of human is
   (1) 231 (2) 236
   (3) 213 (4) 263

Level-3/177
147. मानव जीनोम में कुल कितने जीन होते हैं?

(1) 10,000  (2) 55,000  
(3) 30,000  (4) 79,000

148. शुक्रपालन के धौराने क्रोमॉसोम के पृथक नहीं होने के कारण कुछ शुक्रपालनों में दोनों लिंग गुणसूत्र (22A + XY) तथा कुछ शुक्रपालनों में लिंग गुणसूत्र नहीं (22A + O) हो पाते। बिना ये शुक्रपालन सामान्य अंडियों (22A + X) के साथ निपटने हो सी संधि में होने वाली आनुवंशिक विसंगतियाँ होगी।

(1) डाउन सिंड्रोम तथा टर्नर सिंड्रोम  
(2) डाउन सिंड्रोम तथा काहू-बैट सिंड्रोम  
(3) क्लैइफेल्टर सिंड्रोम तथा टर्नर सिंड्रोम  
(4) डाउन सिंड्रोम तथा क्लैइफेल्टर सिंड्रोम

149. ओफिओप्लूटियस है

(1) इक्सिनोडेंटा  
(2) पोरिफ़ेरा  
(3) इक्सिनोडेंटा का लाबा  
(4) पोरिफ़ेरा का लाबा

150. स्तनियों में सामान्यतया पाए जाने वाले दोनों का प्रकार है

(1) विषमदंती, गड्डदंती, दिबाघ दंती  
(2) विषमदंती, पास्पर्दंती, दिबाघ दंती  
(3) विषमदंती, अवशेषदंती, बहुवार्तनी  
(4) विषमदंती, पास्पर्दंती, बहुवार्तनी

147. How many total number of genes are present in human genome?

(1) 10,000  (2) 55,000  
(3) 30,000  (4) 79,000

148. Due to non-disjunction of chromosome during spermatogenesis, some sperms carry both sex chromosomes (22A + XY) and some sperms do not carry any sex chromosome (22A + O). If these sperm fertile with normal egg (22A + X), what type of genetic disorder appear among the offsprings?

(1) Down's syndrome and Turner's syndrome  
(2) Down's syndrome and Cri-du-chat syndrome  
(3) Kleinfelter's syndrome and Turner's syndrome  
(4) Down's syndrome and Kleinfelter's syndrome

149. Ophiopluteus is

(1) an echinodermata  
(2) a porifera  
(3) a larva of echinodermata  
(4) a larva of porifera

150. Type of teeth generally present in mammal is

(1) Heterodont, Thecodont, Diphyodont  
(2) Heterodont, Pleurodont, Diphyodont  
(3) Heterodont, Acrodont, Polyphyodont  
(4) Heterodont, Pleurodont, Polyphyodont
(31)
रफ कार्य के लिए / FOR ROUGH WORK
6. Answers to questions in answer sheet are to be given by darkening complete circle using Black/Blue ball point pen as shown below:

If you fill more than one circle it will be treated as a wrong answer.

7. Rough work should be done only in the space provided in the Test Booklet for the same.

8. The answers are to be recorded on the OMR Answer Sheet only. Mark your responses carefully. No whitener (white fluid) is allowed for changing answers.

9. Out of the four alternatives for each question, only one circle for the most appropriate answer is to be darkened completely with Blue/Black Ball Point Pen on the OMR Answer Sheet. The answer once marked is not allowed to be changed.

10. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified space in the Answer Sheet.

11. Handle the Test Booklet and Answer Sheet with care, as under no circumstances (except for discrepancy in Test Booklet and Answer Sheet Serial No.), another set of Test Booklet will not be provided.

12. The candidates will write the correct Number as given in the Test Booklet/Answer Sheet in the Attendance Sheet.

13. Candidates are not allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, electronic device or any other material except the Admit Card inside the examination hall/room.

14. Each candidate must show on demand his/her Admit Card (Roll No.) to the Invigilator.

15. No candidate, without special permission of the Superintendent or Invigilator, should leave his/her seat.

16. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign the Attendance Sheet twice. Cases where a candidate has not signed the Attendance Sheet second time will be deemed not to have handed over the Answer Sheet and dealt with as an unfair means case. Female candidates have to affix right hand thumb impression whereas male candidates have to affix left hand thumb impression on the OMR answer sheet at the place specified which should be properly inked i.e. they should not be either over inked or dried in nature.

17. Use of Electronic/Manual Calculator is prohibited.

18. The candidates are governed by Guidelines/Procedure given in the Information bulletin, all Rules and Regulations of the Board with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of the Board.

19. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.

20. On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator in the Room/Hall. The candidates are required to take away this Test Booklet with them.
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