(English Version) Section – A (Languages)

1.	'ऋतु-ऋतु' शब्द-युग्म में क्या अर्थ भेद है?		C. स्वयंवर D. सज्जन
	A. कठोर-मौसम B. मिथ्या-मौसम	11.	कौनसा शब्द 'आकाश' का पर्यायवाची नहीं है?
	C. असत्य-मौसम D. सत्य-मौसम		А. गगन B. नभ
2.	'सभा शब्द का प्रयोग किस संज्ञा के अंतर्गत		C. अवनि D. अम्बर
	आता है?	12.	'विधि' का सही विलोम क्या है?
	A. व्यक्तिवाचक B. जातिवाचक		A. निषेध B. कानून
	C. भाववाचक D. द्रव्यवाचक		C. कर्म D. नास्तिक
3.	संज्ञा की व्याप्ति किससे मर्यादित होती है?	13.	'ज्येष्ठ' का विलोम क्या है?
	А. सर्वनाम В. क्रिया		А. कनिष्ठ В. अवर
	C. विशेषण D. समास		C. अग्रज D. प्रवर
4.	निम्नलिखित में से कौन सा शब्द स्त्रीलिंग है?	14.	सही संधि - विच्छेद का चयन कीजिए -
	A. कपड़ा B. रात		А. महा - ऊदय В. महा + उदय
	C. गाना D. नेत्र		C. महो + दय D. महा + ओदय
5.	निम्नलिखित में से कौन सा शब्द पुल्लिंग है?	15.	निम्नलिखित ममें से अशुद्ध संधि का चयन
	А. सॉकल В. सभा		करें -
	C. व्याख्यान D. दक्षिणा		A. राजन + आज्ञा = राजाज्ञा
6.	पुल्लिंग-स्त्रीलिंग के युग्म में से कौनसा युग्म		B. वि + स्मरण = विसमरण
	सही नहीं है?		C. धनिन + त्व = धनित्व
	A. बालक - बालिका B. मिहतर - मिहतरी		D. नि: + चल = निश्चल
	C. गूँगा - गूँगी D. नर - नारी	16.	'कलम तोड़ देना' मुहावरे का सही अर्थ है -
7.	कौनसा शब्द सदैव एकवचन में प्रयोग होता है?		A. लिखना - पढ़ना त्याग देना
	A. धन B. सोना		B. अत्यंत क्रोधित होना
	С. मात्र 'A' D. 'A' व 'B' दोनों		C. अत्यन्त मार्मिक व प्रभावशाली रचना करना
8.	संज्ञा के किस रूप से किसी को पुकारने का बोध		D. लिखने से घृणा करना
	होता है?	17.	'नीम हकीम खतरे जान' कहावत का सही अर्थ
	A. संबंध - कारक B. संप्रदान - कारक		है -
	C. संबोधन - कारक D. अपादान - कारक		A. अधकचरा ज्ञान नुकसान देता है
9.	संधि कितने प्रकार की होती है?		B. जड़ी बूटी से इलाज करना
	A. दो B. तीन		C. नीम का उपयोग सभी हकीम करते हैं
	C. चार D. पाँच		D. हकीम से उपचार करवाना
10.	अशुद्ध वर्तनी विकल्प कौन सा है?	18.	आवश्यकता से अधिक धन-संपत्ति एकत्र न करना
	А. उज्ज्वल B. सन्यासी		- वाक्यांश के लिए एक शब्द लिखें -

- A. कृपणता B. अपरिग्रह
- C. सदाचार D. अस्तेय
- 19. 'चाक' शब्द कौन सी भाषा से हिन्दी में आया है?
 - A. अरबी B. तुर्की
 - C. फारसी D. पोर्च्गीज़
- 20. असंगत वाक्य छातिए :
 - A. जिस समास में पहला पद प्राय: प्रधान होता है उसे अव्ययीभाव समास कहते हैं ।
 - B. जिस समास में दूसरा पद प्राय: प्रधान होता है उसे तत्पुरुष समास कहते हैं ।
 - C. जिसमें कोई भी पद प्रधान नहीं होता उसे दन्न्द समास कहते हैं ।
 - D. जिस समस्त पद में कोई पद प्रधान नहीं होता तथा दोनों मिलकर किसी तीसरे पद की और संकेत करते हैं उसे बहुब्रिही समास कहते हैं।

Directions Qs. 21-24: Choose the opposite of the given word out of the four options:

21. Jeiune A. Sophisticated B. Arrogant C. Delightful D. Indifferent 22. Jeopardy A. Validity B. Safety D. Tactfulness C. Piety 23. Obfuscate A. Complicate B. Eclipse C. Clarify D. Anticipate 24. Inveigh A. Liberate B. Suggest C. Equivocate D. Support

Directions Qs.25-28: Choose the correct preposition, out of the four options, to be filled in the blanks:-

25.	Shyam is ignora	nt his mistak	e.
	A. of	B. to	
	C. for	D. at	
26.	His speech was	appropriate	_ the
	occasion.		
	A. upon	B. to	
	C. about	D. for	
27	Kalling / a la ala and a		

27. Kalim's behavior is subversive ______ discipline.

	A. with	в.	about
	C. of	D.	for
28.	Radhika's aptitude_ be doubted.		business canno
	A. to	в.	about
	C. at	D.	for

Directions Qs.29-32: In these questions, four alternatives are given for the italicized idioms. Choose the alternative which best expresses the meaning of the idiom:

- 29. A fly on the wheel
 - A. a person who overestimates her/his importance
 - B. a person who cautions the people
 - C. a person who is hostile to all
 - D. a person who entertains others
- 30. Fly off the handle
 - A. attack someone's enemies
 - B. lose one's temper suddenly
 - C. make one's escape
 - D. run away from the difficult situation
- 31. Keep the wolf off the door
 - A. keep her secrets intact
 - B. keep protesting against the times
 - C. keep off starvation
 - D. keep working with utmost speed
- 32. To be under the harrow
 - A. to work hard
 - B. to be awarded for honesty
 - C. to be in good health
 - D. to be in distress

Directions Qs.33-36: Choose the correct synonyms of the following words out of the four given options:

33.	Dia	phanous		
	Α.	silken	В.	tired
	C.	kind	D.	thick
34.	Exp	oostulate		
	Α.	infer	в.	disagree
	C.	remit	D.	simmer
35.	Im	provised		
	Α.	imprudent	в.	incautious
	C.	unstudied	D.	oblivious
36.	Ма	verick		
	Α.	materialist	в.	spiritualist
	C.	selfish	D.	nonconformist
D :				a tha annuart f

Directions Qs.37-40: Choose the correct form of the following words as the given part of speech out of the four options:

- 37. Above as noun:
 - A. Our blessings come from above
 - B. The heavens are above
 - C. The moral law is above the civil
 - D. Analyse the above sentence
- 38. Down as noun:
 - A. Down went the "Titanic"
 - B. Shyam has seen the ups and downs of life
 - C. The porter was killed by the down train
 - D. The engine came rushing down the hill
 - Section B
- Superconductivity is a material property 41. associated with:
 - A. cooling a substance without a phase change
 - B. frictionless liquid flow
 - C. a loss of thermal resistance
 - D. a loss of electrical resistance
- 42. A type of plastic that is biodegradable and has been in the news lately. The ingredient that makes it biodegradable is :
 - A. vegetable oil B. petroleum
 - C. corn starch D. leather
- How many Dynes are there in one gram 43. weight?
 - A. 900 B. 375
 - C. 981 D. 250
- If the distance between the earth and the 44. sun were twice what it is now, the gravitational force exerted on the earth by the sun would be:
 - A. twice as large as now
 - B. four times as large as it is now
 - C. half of what it is now
 - D. one-fourth of what it is now
- 45. Who was the first Indian to be selected to the British Parliament?
 - A. Dadabhai Naoroii
 - B. G.K. Gokhale
 - C. Bipin Chandra Pal
 - D. Lala Lajpat Rai
- Which of the following Rajput dynasties did 46. not surrender to Akbar?
 - A. Parmar B. Pratihara
 - C. Rathor D. Sisodiya
- 47. Which of the following is not a classical language of India?
 - A. Sanskrit B. Telugu
 - C. Hindi D. Malayalam

- 39. But as adverb:
 - A. None but the brave deserve the honour
 - B. We tried hard, but did not succeed
 - C. It is but right to admit our faults
 - D. There is no one but likes him
- 40. After as adjective :
 - A. They arrived soon after
 - B. He takes after his father
 - C. We went away after they had left
 - D. After ages shall sing his glory
- - 48. The scientific study of ageing is known as :
 - A. Etiology B. Gerontology
 - C. Osteology D. Teratology
 - 49. Which Indian artist decorated the handwritten copy of the Constitution?
 - A. Nandalal Bose
 - B. Mihir Sen
 - C. S. N. Banerji
 - D. Mukesh Bhandopadhyaya
 - 50. Preamble of the Indian Constitution has been amended
 - A. Once B. Twice
 - C. Thrice D. Never
 - 51. Which of these are nicknamed 'Bretton Woods Twins'?
 - 1. IDA
 - 2. IMF
 - 3. IBRD
 - 4. WTO
 - A. 1&4 B. 3&4
 - C. 2&4 D. 2&3
 - 52. Section -498A of Indian Penal Code is a popular section. It deals with:
 - A. Property rights to women
 - B. Reservations for women
 - C. Harassment for dowry
 - D. Kidnap and rape
 - 53. The United Nations climate change conference COP19 or CMP9 was held in November 2013 at:
 - A. Paris B. Warsaw
 - C. Montreal D. Kyoto
 - 54. The number of approved share markets in India is :

Α.	19	В.	20
C.	23	D.	24

- 55. Which of the following state has been brought into the railway network for the first time?
 - A. Manipur
 - B. Assam
 - C. Tripura
 - D. Arunachal Pradesh
- 56. Who among the following has recently been selected for the coveted Indira Gandhi Prize for Peace Disarmament and Development for 2013?
 - A. Ila Bhatt
 - B. Medha Patkar
 - C. Angela Merkel
 - D. Chandi Prasad Bhatt
- 57. Victoria Azarenka, who won the Australian Open Tennis women's singles title 2012 is from:
 - A. USA B. Belarus
 - C. Germany D. Slovakia
- 58. The National Sports Day is observed on :
 - A. August 29th B. July 29th
 - C. September 29^{th} D. August 20^{th}
- 59. Sonal Mansingh is famous for which form of dance?
 - A. Bharatnatyam B. Manipuri
 - C. Kuchipudi D. Kathak
- 60. Ms. Meera Sahib Fathima Beevi is distinguished as the first lady
 - A. Judge of the High Court
 - B. Governor of a State
 - C. Judge of the Supreme Court
 - D. Prime Minister of Bangladesh
- 61. The maximum poll expenditure for a Lok Sabha seat has been raised by the Union Cabinet on the suggestion of the Election Commission of India:
 - A. From Rs. 30 lacs to Rs. 70 lacs
 - B. From Rs. 40 lacs to Rs. 70 lacs
 - C. From Rs. 50 lacs to Rs.70 lacs
 - D. From Rs. 40 lacs to Rs. one crore
- 62. Which of the following agencies determine ranking of the countries in accordance with Economic Freedom Index?
 - A. World Economic Forum
 - B. UNDP
 - C. Heritage Foundation & Wall Street Journal
 - D. World Bank

- 63. When is the World Population Day observed?
 - A. May 31 B. July 11
 - C. Oct. 4 D. Dec. 10
- 64. What was the highest individual score, in an innings in ICC T20 World Cup 2014?
 A. 101
 B. 106
 - A. 101 B. 106 C. 111 D. 116
 - Fiscal Policy is related to:
 - A. Money supply in the economy
 - B. Regulation of the banking system
 - C. Planning for economic development
 - D. Government's Revenue and Expenditure
- 66. Which American President has recently painted a portrait of Dr. Manmohan Singh?
 - A. Barack Obama B. George Bush
 - C. Bill Clinton D. Ronald Reagan
- 67. Which is the largest economy in African Continent?
 - A. South Africa
 - B. Nigeria
 - C. Algeria

65.

- D. None of the above
- 68. Who wrote 'Why I am an Atheist'?
 - A. Subhash Chandra Bose
 - B. Khushwant Singh
 - C. Bhagat Singh
 - D. Madan Lal Dhingra
- 69. The recently set-up 7th Central Pay Commission is headed by
 - A. Ashok Kumar Mathur
 - B. G.K. Chadha
 - C. Montek Singh Ahluwalia
 - D. Ajit Prakash Shah
- 70. National Rural Employment Scheme was launched throughout the country from :
 - A. 1.04.2007 B. 02.10.2007
 - C. 14.11.2007 D. 01.04.2008
- 71. 'England' is related to 'Atlantic Ocean' in the same way as 'Greenland' is related to:A. Pacific OceanB. Atlantic Ocean
 - C. Arctic Ocean D. Antarctic Ocean

Direction Qs.Nos.72-73: Choose one of the four given alternatives that shows the same relationship as is found between the two letters/numbers to the left of the sign :

- 72. FJUL : BOQQ : : LHRX : ?
 - A. BKPR B. MNCC C. HRYY D. HMNC

73. 9:162::8:?

Α.	162	В.	128
C.	96	D.	112

74. Choose the group of words that shows same relationship as is given in the question :

Correspondent : News : Newspaper

- A. Farmer : Crops : Food
- B. Mason : Cement : Construction
- C. Cloud : Water : Ponds
- D. Road : Vehicle : Destination

Direction (Q.Nos. 75-76): Three of the four alternatives given are same in a certain way and so form a group. Find the odd one that does not belong to the group:

- 75. A. 62 B. 42
- C. 152 D. 110
- 76. A. Java B. Sri Lanka
 - C. Malaysia D. Cuba
- 77. In a certain code language, 'lu ra de' means 'what was it'; 'mo nil' means 'you go'; 'nil pam ra' means 'you like it' and 'tok lu fo' means 'she was sick'. How will you write 'what you like' in that code ?
 - A. nil ra lu B. pom nil ra

C. pom ra lu D. de nil pam

- 78. If 'MOUSE' is coded as "PRUQC', then how is 'SHIFT' written in the same code?
 - A. VKIRD B. VKIDR
 - C. VJIDR D. VIKRD
- 79. How many meaningful English words can be made with the letters 'ATLE' using each letter only once in each word?
 - A. Two B. Three
 - C. Four D. More than four
- 80. 36 vehicles are parked in a parking lot in a single row. After the 1st car, there is one scooter, after 2nd car there are two scooters, after 3rd car there are three scooters and so on. Work out the number of scooters in the second half of the row.

Α.	10	В.	12
-		_	

C. 15 D. 17

Direction (Q.Nos. 81-83): Six plays A, B, C, D, E and F are to be organized from 2nd June to 7th June, i.e. Monday to Saturday – one play each day. There are two plays between C and D and one play between A and C. There is one play between F and E and E is to be organized before F. B is to be organized before A, not necessarily

immediately. The sequence of plays does not start with B.

- 81. The sequence of plays would start from which play?
 - Α. Α
 - B. F
 - C. D
 - D. Can't be determined
- 82. On which date is play E to be organized?
 - A. 2nd
 - B. 4th
 - C. 3rd
 - D. Can't be determined
- 83. The sequence of plays would end with which play?
 - Α. Α
 - B. D
 - С. В
 - D. Can't be determined
- 84. B, C, D, E, F, G, H, J are sitting around a circle facing the centre. B is an immediate neighbour of F and C. E is second to the left of F. G is second to the right of C. D is not an immediate neighbour of G. There are two persons between C and J. How many persons are between C and D?
 - A. 2 only B. 4 only
 - C. 5 only D. either 2 or 4
- 85. If `A + B' means that A is the father of B; `A-B' means that A is the wife of B; `A × B' means that A is the brother of B and `A ÷ B' means that A is the daughter of B. Then which of the following is true for P ÷ R + S + Q ?
 - A. P is the daughter of Q
 - B. Q is the aunt (Father's sister) of P
 - C. P is the aunt (father's sister) of Q
 - D. P is the mother of Q
- 86. Q's mother is the sister of P and daughter of M. S is the daughter of P and sister of T. How is M related to T?
 - A. Maternal Grandmother
 - B. Father
 - C. Maternal Grandfather
 - D. Option (A) or (C)
- 87. Ram starts walking towards East from a point 'S' and after walking 15 m turns to his left and walks 10 m, again he walks 10 m turning to his left and finally walks 22 m turning to his left and reaches a point 'Q'.

How far and in which direction is he from the point 'S'?

Α.	15 m South	в.	22 m South-East
C.	12 m South	D.	13 m South-East

Direction Q.Nos. 88-89: Read the pattern of letters/numbers/terms and find the missing term from the given alternatives:

- 88. 9, 27, 31, 155, 161, 1127, ?
 A. 1135 B. 1288
 C. 316 D. 2254
 89. Y, B, T, G, O, ?
 A. N B. M
 C. L D. K
 90. In the following series some letters are
- missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

adb_ac_d_bcda_bcac_d

A. bacbd	в.	dbacb
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C. cbadb D. acbda

- 91. If P denotes +, Q denotes -, R denotes × and S denotes ÷ , then which of the following is correct?
 - A. 16 R 12 P 49 S 7 Q 9 = 200
 - B. 32 S 8 R 9 = 160 Q 12 R 12
 - C. 8 R 8 P 8 S 8 Q 8 = 57
 - D. 36 R 4 S 8 Q 7 P 4 = 10
- 92. The age of father 10 years ago was thrice the age of his son. Ten years hence, father's age will be twice that of his son. The ratio of their present ages is :
 - A. 5:2 B. 7:3 C. 9:2 D. 13:4

Direction (Q.Nos. 93 to 95): A survey of a locality regarding newspaper reading habits shows that: newspaper A is read by 26%; newspaper B is read by 25%; newspaper C is read by 14%; newspaper A and B are read by 11%; Newspaper B and C are read by 10%; Newspaper C and A are read by 9% and newspaper C only is read by 0%.

93. The percentage of readers who read all the three newspapers is

Α.	10			В.	4
C.	5			D.	6
			-		

- 94. The percentage of readers who read at most one newspaper is
 - A. 20
 - B. 80
 - C. 60

- D. None of the above
- 95. The percentage of reader who read at least two newspapers is
 - A. 15
 - B. 16
 - C. 20
 - D. None of the above
- 96. How many times are the two hands of a clock at right angles in a day?

Α.	24	В.	48
C.	22	D.	44

- 97. Calendar for the year 2014 will be the same for the year:
 - A. 2018
 - B. 2020
 - C. 2022
 - D. none of the above
- Choose the alternative which most closely resembles the mirror-image of word PAINTED

- C. CELNIAS D. CETNIAS
- 99. Two positions of a dice are shown below. When there are two dots at the bottom, the number of dots at the top will be



100. How many triangles are there in the given figure?





- C. 25 D. 26 101. Which one of the following is the main
 - objective of teaching? A. To develop thinking power of the students
 - B. To give information related to the syllabus
 - C. To dictate notes to the students
 - D. To prepare students to pass the examination
- 102. Which of the following statements regarding "Memory Level of Teaching" (MLT) is incorrect?
 - A. Memory is the initial stage of teaching

- B. Memory Level of Teaching mainly depends on the prevailing socioeconomic conditions
- C. MLT includes the habit of rote memorization of facts and bits of information
- D. MLT enables the learner to retain and also reproduce the learnt material whenever required
- 103. Which of the following statements regarding "Understanding Level of Teaching" (ULT) is incorrect?
 - A. Morrison is the main proponent of ULT
 - B. It is 'memory plus insight' as it goes beyond just the memorizing of facts. It focuses on the mastery of the subject
 - C. Cultural materialism is also a primary determining factor of ULT
 - D. It provides more and more opportunities for the students to develop the intellectual behavior
- 104. Which of the following statements regarding 'Reflective Level of Teaching' (RLT) is incorrect?
 - A. Hunt is the main proponent of RLT
 - B. It is problem centred teaching
 - C. The students are assumed to adopt some sort of research approach to solve the problem
 - D. The teacher assumes the primary place and the pupil occupies the secondary place
- 105. Which of the following is not a domain or category of instructional objectives according to Bloom et al?
 - A. Socio-Political Domain
 - B. Cognitive Domain
 - C. Affective Domain
 - D. Psychomotor Domain
- 106. Which of the following is not one of the advantages of "Lecture Method"?
 - A. It is economical as it can cover large audience in less time
 - B. It promotes social cohesion among the pupils
 - C. It is useful for stimulating further learning
 - D. It has the flexibility for adapting the lecture according to time and equipment available

- 107. Which one of the following is not one of the advantages of 'TV or Video Presentation' as a teaching method?
 - A. Many important personalities and experts are brought to the classroom through videopresentation
 - B. This method is specifically useful for adult learners
 - C. It promotes a sort of nativism among the learners
 - D. Illustrated lectures and demonstrations can be supplemented by other teaching aids such as slides, models, specimens, etc.
- 108. Which one of the following is not one of the advantages of 'Team Teaching Method'?
 - A. It helps in sharing the best faculty by more students
 - B. It involves optimum use of teaching techniques and devices
 - C. It improves the teaching quality
 - D. It affects the socio-economic conditions of the pupils
- 109. Which one of the following is not one of the advantages of 'Group Discussion Method'?
 - A. It flattens out the ideological differences of the pupils
 - B. It can be planned where there is certainty about the conclusions and objectives. The discussion is guided by the trainer in an appropriate sequence
 - C. It promotes communication and interaction within a group around a topic or problem presented to the group
 - D. It can also be unplanned where the topic presented for discussion is without any opening statement and discussion that follows is entirely spontaneous
- 110. Which one of the following is not one of the advantages of the "Case Study Method"?
 - A. It provides opportunity to the participants to critically analyze the problem and express reasoned opinions.
 - B. It promotes gender-sensitivity among the pupils.
 - C. It enhances decision –making and problem-solving skills.
 - D. It ensures active participation, which may lead to innovative solutions.

- 111. Which one of the following is not one of the functions of 'Evaluation'?
 - A. Feedback
 - B. Motivation
 - C. Ideological indoctrination
 - D. Better guidance
- 112. Who among the following is considered a proponent of the Wardha Education System?
 - A. Sri Aurobindo B. S. Radhakrishnan
 - C. J.Krishnamurti D. Mahatma Gandhi
- 113. Who among the following was the main proponent of the Kindergarten system of education?
 - A. Froebel
 - B. Rousseau
 - C. Maria Montessori
 - D. John Dewey
- 114. Which of the following is not one of the "Projected Visual Aids"?
 - A. Slides
 - B. Bar Chart
 - C. Handheld Projector
 - D. Video Projector
- 115. Which of the following is an independent variable in teaching-learning process?
 - A. Student B. Institution
 - C. Teacher D. Parents

- 116. The highest level of cognitive domain is:
 - A. Synthesis B. Analysis
 - C. Comprehensive D. Evaluation
- 117. Who has the least chance of becoming an effective teacher?
 - A. One who has no interest in teaching
 - B. One who is a strict disciplinarian
 - C. One who neglects teaching
 - D. One who knows his subject well
- 118. Books can be a powerful source of communication, provided:
 - A. The content is abstract
 - B. The content is illustrative
 - C. The medium is Hindi
 - D. The print quality of the book is good
- 119. Good teaching is best reflected by:
 - A. Attendance of students
 - B. Number of distinctions
 - C. Meaningful questions asked by students
 - D. Pin-drop silence in the class
- 120. The ability to locate, evaluate and effectively use information is an important trait known as :
 - A. Critical thinking
 - B. Information literacy
 - C. Number of distinctions
 - D. Selective attention

Section – C (Subject Knowledge)

- 121. Which of the following is not a chromosomal mechanism for sex determination?
 - A. Genic balance mechanism
 - B. Haploid diploid mechanism
 - C. Metabolic mechanism
 - D. Single gene mechanism
- 122. Which assisted reproductive technology has been used for the longest time period?
 - A. Intracytoplasmic sperm injection
 - B. Artificial insemination
 - C. In vitro fertilization
 - D. Gamete intrafallopian transfer
- 123. Lysosomes containing inactive enzymes are called
 - A. Autophagosomes
 - B. Residual bodies
 - C. Secondary lysosomes
 - D. Primary lysosomes

- 124. Transpiration pull will be maximum under which of the following conditions?
 - A. Open stomata, high humid atmosphere, and well irrigated soil
 - B. Open stomata, high humid atmosphere, and dry soil
 - C. Open stomata, dry atmosphere, and moist soil
 - D. Closed stomata, low light intensity and humid atmosphere
- 125. Hepatic portal system starts from
 - A. Digestive system to liver
 - B. Kidney to liver
 - C. Liver to heart
 - D. Liver to kidney
- 126. Ivan Pavlov performed experiments on
 - A. Simple reflexes
 - B. Conditioned reflexes
 - C. Cardiac reflexes
 - D. Origin of life

127. Greenhouse effect is caused by A. Green plants B. Infrared ravs D. X-rays C. UV rays 128. Free living nitrogen fixing bacteria are B. Clostridium A. Nitrosomonas C. Rhizopus D. Anabaena 129. Eutrophication is caused by excess of in water. A. Nutrients B. Heavy metals C. Pesticides D. Microbes 130. Photosynthetic pigment present in plants are A. Chlorophyll a and b B. Chlorophyll a and c C. Chlorophyll a D. Chlorophyll b 131. In aerobic organisms, glucose is converted into as a final product A. Lactic acid B. CO₂ C. O₂ D. Fthanol 132. The role of double fertilization angiosperms is to produce A. Integuments B. Endosperm D. Cotyledons C. Endocarp 133. Natural pacemaker in heart is A. SA node B. Purkinje fibers C. Chordae tendineae D. Mitral valve 134. The excretory organs in arthropods are A. Nephron B. Flame cells C. Tubefeet D. Malpighian tubules 135. Which part of the brain in human body controls temperature? A. Cerebellum B. Medulla C. Hypothalamus D. Thalamus 136. Addison's disease is caused by deficiency of a hormone which is secreted by A. Pitutiary gland B. Adrenal cortex C. Thyroid D. Thymus 137. Which of the following is a secondary pollutant? A. Aerosol B. CO D. SO₂ C. PAN 138. The layer of earth's atmosphere in which clouds occur is

- A. Stratosphere B. Troposphere
- C. Thermosphere D. Mesosphere

- 139. Hybrid vigour is due to
 - A. Homozygosity of pure characters
 - B. Superiority of all genes
 - C. Heterozygosity
 - D. Mixing up of the cytoplasm of male with that of female
- 140. Crosses between two plants by the same variety are called
 - A. Intravarietal B. Intervarietal
 - C. Interspecific D. Intergenic
- 141. Which of the following explain relay intercropping?
 - A. Component crops are totally mixed in the available space
 - B. Component crops arranged in alternate rows
 - C. Sowing of fast growing crops with a slow growing crop
 - D. Second crop is sown during growth and often during fruiting of first crop
- 142. The shoots and roots of the plant show
 - geotropism A. Negative and positive respectively
 - B. Only negative geotropism
 - C. Only positive geotropism
 - D. Positive and negative geotropism respectively
- 143. Bacteria asexually reproduce by
 - A. Amitosis B. Meiosis
 - C. Conjugation D. Transformation
- 144. Retina is most sensitive at
 - A. Optic disc B. Periphery
 - C. Macula lutea D. Fovea centralis
- 145. Astigmatism can be corrected by wearing
 - A. Concave lens
 - B. Convex lens
 - C. Spherical cylindrical lens
 - D. Without any lens
- 146. When the egg does not get fertilized, which hormone is produced by ruptured follicle?
 - A. LH B. FSH
 - C. Progesterone D. Thyroxine
- 147. Pollination by insects is known as
 - A. Entomophily B. Anemophily
 - C. Chiropterophily D. Ornithophily
- 148. Vitellogenesis is the process of formation of
 - A. Vitelline membrane around the developing egg cell
 - B. Yolk cell membrane around the yolk mass during development of reptiles and birds

in

- C. Yolk and its deposition within the growing oocyte of amphibians
- D. Archenteron around egg cell
- 149. During which epoch of Cenozoic era, there was extinction of large mammals?
 - A. Oligocene B. Pliocene
 - C. Holocene D. Pleistocene
- 150. Fossils are found in
 - A. Rocks
 - B. Amber
 - C. Asphalt
 - D. All of these media
- 151. Vascular bundles in a dicot stem are
 - A. Open, collateral and endarch
 - B. Closed, collateral and endarch
 - C. Closed, collateral and exarch
 - D. Open, collateral and exarch
- 152. Hard, lignified, thick walled, long and pointed cells in a plant are
 - A. Parenchyma B. Sclerenchyma
 - C. Collenchyma D. Sclerids
- 153. The layer of actively dividing cells of skin is termed as
 - A. Stratum compactum
 - B. Stratum corneum
 - C. Stratum lucidium
 - D. Stratum germinativum
- 154. Alternative forms of a gene are called
 - A. Loci B. Multiples
 - C. Chromosomes D. Alleles
- 155. What will be the genotypic ratio of the cross between Rr X rr?
 - A. 1:2:1 B. 3:1
 - C. 1:1 D. 1:1:1
- 156. Which of the following does not occur within mitochondria?
 - A. Krebs cycle B. Glycolysis
 - C. ECT D. ATP Synthesis
- 157. Cell wall of the plant cell contain pit fields known as
 - A. Mitochondria
 - B. Golgi bodies
 - C. Plasma membrane
 - D. Plasmodesmata
- 158. Which phylum does not have a true coelom?
 - A. Arthropoda B. Echinodermata

C. Porifera D. Annelida

- 159. Which one of the following kind of animals is triploblastic?
 - A. Corals B. Flatworms

- C. Sponges D. Ctenophores
- 160. Phylogenetic system of classification is based on
 - A. Floral characters
 - B. Evolutionary relationship
 - C. Morphological features
 - D. Chemical constituents
- 161. Mycorrhiza is correctly described as
 - A. Parasitic association between roots and some fungi
 - B. Relation of ants with the stem of some trees
 - C. Symbiosis of algae and fungi
 - D. Symbiotic relationship between fungi and roots of some higher plants
- 162. Common cold is not cured by antibiotics because it is
 - A. Caused by a Gram negative bacterium
 - B. Not an infectious disease
 - C. Caused by a virus
 - D. Caused by a Gram positive bacterium
- 163. Prions affect which tissue in the body?
 - A. Endocrine B. Cardiac
 - C. Connective D. Nervous
- 164. Gas leaked in Bhopal tragedy was
 - A. Methyl isocyanate
 - B. Potassium isothiocyanate
 - C. Sodium isothiocyanate
 - D. Ethyl isothiocyanate
- 165. Tuberculosis is caused by
 - A. Mycobacterium B. Vibrio
 - C. Clostridium D. Nitrobacter
- 166. HIV mainly affects
 - A. Cell mediated T lymphocytes
 - B. Helper T lymphocytes
 - C. Natural Killer cells
 - D. Cytotoxic T lymphocytes
- 167. Release of milk and contraction of uterus are caused by
 - A. Prolactin B. Oxytocin
 - C. Progesterone D. Estrogen
- 168. Which of the following are analogous organs?
 - A. Eye of cephalopods and vertebrates
 - B. Flippers of seal and wings of pigeon
 - C. Tendril of Passiflora and thorn of Bougainivillea
 - D. Legs of grasshopper and honey bee
- 169. Which of the following is an apocrine gland?
 - A. Mammary gland B. Thyroid

- C. Thymus D. Hypothalamus
- 170. The development of fruit without fertilization is
 - A. Parthenogenesis B. Parthenocarpy
 - C. Apomixes D. Apogamy
- 171. Ranikhet attacks the
 - A. Pigs and poultry
 - B. Poultry and honey bee
 - C. Silkworm and camels
 - D. Poultry only
- 172. Knee or elbow joint is
 - A. Pivot B. Condyloid
 - D. Hinge C. Glidina
- 173. The product of conjugation in Spirogyra is
 - A. Akinete B. Zygospore
 - C. Chlamydospore D. Zoospore
- 174. Thylakoids occur inside
 - A. Endoplasmic Reticulum
 - B. Golgi Complex
 - C. Chloroplast
 - D. Mitochondria and chloroplast
- 175. Which state consists of super energetic and super excited particles?
 - A. Liquid
 - B. Gas
 - C. Plasma
 - D. Bose-Einstein Condensate
- 176. According to Henry's law
 - A. doubling the partial pressure doubles the solubility
 - B. doubling the partial pressure triples the solubility
 - C. doubling the partial pressure decreases the solubility
 - D. doubling the partial pressure does not affect the solubility
- 177. The protecting power of lyophilic colloidal sol is expressed in terms of
 - A. Critical miscelle concentration
 - B. Oxidation number
 - C. Coagulation value
 - D. Gold number
- 178. Atoms having same number of neutrons but different mass number are called
 - A. isotopes B. isobars
 - C. isotones D. isotherms
- 179. Which of the following has largest negative electron affinity?
 - B. Cl A. F
 - D. I C. Br

- 180. The family of elements with the highest ionisation enthalpy:
 - A. Alkali metals
 - B. Alkaline earth metals
 - C. Halogens
 - D. Noble gases
- 181. Which of the following has coordination bond?
 - A. N₂ B. CaCl₂
 - C. O₃ D. H₂O
- 182. What will be the pH at 25°C containing 0.10 M CH₃COONa and 0.03 M CH₃COOH. pK_a for CH₃COOH = 4.57.
 - A. 4.87 B. 3.33
 - C. 5.09 D. 4.05
- 183. The function of alum used for the purification of water is to
 - A. coagulate the sol particles
 - B. disperse the sol particles
 - C. emulsify the sol particles
 - D. absorb the sol particles
- 184. Which one of the following is metal?
 - A. C B. N
 - C. Na D. 0
- 185. Which non-metal is found in liquid state at room temperature?
 - A. Mercury B. Zinc
 - C. Iodine D. Bromine
- 186. Oxides of non metals are _____ in nature.
 - A. Basic B. Acidic
 - C. Neutral D. Amphoteric
- 187. Which gas is produced when metal react with acids?
 - A. Oxygen B. Nitrogen
 - C. Hydrogen D. Carbon dioxide
- 188. Which of the following can be shown to be both a Bronsted acid and a Bronsted base? A. O⁻² B. HSO4⁻¹
 - C. PO₄-3 D. CN⁻¹
- 189. An example of an emulsifying agent would
 - be A. Oil B. Soap
 - D. Salt
 - C. Water
- 190. Which is not an organic compound?
 - A. methanol B. acetonitrile
 - C. sodium cyanide D. phenol
- 191. In benzene, each carbon atoms undergoes
 - A. sp
 - B. sp²
 - C. sp³

- D. sp² and sp³ hybridisation
- 192. The shortest C-C bond distance is found in:
 - A. ethane B. ethene
 - C. ethyne D. diamond
- 193. Propene reacts with HBr in presence of organic peroxide to form:
 - A. 1-Bromopropane
 - B. 2-Bromopropane
 - C. 3-Bromopropane
 - D. 2-Bromopropene
- 194. The strongest acid among the following is:
 - A. C_2H_6 B. C_3H_8
 - C. C_2H_4 D. C_2H_2
- 195. The compound formed as a result of oxidation of ethyl benzene by KMnO₄ is
 - A. Benzoic acid B. Acetophenone
 - C. Benzophenone D. Benzyl alcohol
- 196. Which acid is used in the manufacture of synthetic rubber?
 - A. Acetic acid B. Formic acid
 - C. Carbonic acid D. Benzoic acid

- 197. Not a characteristic property of ceramic material
 - A. high temperature stability
 - B. high mechanical strength
 - C. low elongation
 - D. low hardness
- 198. Increasing concentration of CO_2 in atmosphere is responsible for:
 - A. acid rain
 - B. greenhouse effect
 - C. lack of photosynthesis
 - D. death of aquatic life
- 199. The coating on modern non- stick cookware and electric iron is of
 - A. Terrycot B. Rayon
 - C. Polyester D. Teflon
- 200. For corrosion of iron to take place
 - A. Presence of moisture is sufficient
 - B. Presence of moisture and oxygen is essential
 - C. Hydrogen is required
 - D. A strong acid is necessary