PREVIOUS YEAR PAPER

DSSSB TGT Natural Science (Female) 2021 — 26 September 2021, Shift 1

DSSSB TGT · 26 September 2021 · Shift 1

141 of the paper's 200 questions · +1 for a correct answer, −0.25 for a wrong one · 120 minutes

Left out of the original paper: 59 (any question that needs a figure, a symbol or formatting we cannot show, or whose text did not read back cleanly from the booklet).

Questions from the Delhi Subordinate Services Selection Board's paper of 26 September 2021, Shift 1. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/dsssb-tgt/previous-year-papers/dsssb-tgt-2021-natural-science-female-26-sep-shift-1/

General Ability

1. Find the wrong term in the letter-cluster series given below:
SEMO, VJPT, YOSY, BTVD, EYYJ

(a) VJPT
(b) YOSY
(c) BTVD
(d) EYYJ

Answer: (d)

2. Find the missing term in the following letter-clust eries given below:
JRM19, UCX31, ? , QYT55, BJE67

(a) ENI43
(b) FNI43
(c) GNI44
(d) FMI43

Answer: (b)

3. In the following question, select the odd word pair from the given alternatives.

(a) Decibel : Power
(b) Joule : Heat
(c) Hertz : Frequency
(d) Newton : Force

Answer: (a)

4. Select the related word from the given alternatives:
Lungs: Human :: ? : Fish

(a) Spiracles
(b) Larynx
(c) Gills
(d) Trachea

Answer: (c)

5. If in a certain language, COMBINATION is coded as “54326798647”. How is ‘NICOTIN’ coded in that code?

(a) 6654867
(b) 7554867
(c) 7654867
(d) 7454667

Answer: (c)

6. In a row of boys, Vineet ranks eighth from the starting and fourteenth from the end. In another row of girls, Sita's position is ninth from the starting and eleventh from the end. How many students are there in both the rows together?

(a) 40
(b) 42
(c) 39
(d) 38

Answer: (a)

7. Six friends Pankaj, Praveen, Puneet, Rajat, Rahul and Pawan lives on separate floor of a 6 floor building, but not necessarily in the same order.
The ground floor is numbered 1, the first floor is numbered 2 and so on, the topmost floor is numbered 6. Pankaj lives immediately above Puneet and immediately below Praveen. Only two friends live between Rahul and Pankaj. Praveen does not live on the topmost floor. Rajat does not live on the lowermost floor. Pankaj lives on an odd numbered floor.
Who among the following lives on the lowermost floor?

(a) Rahul
(b) Pawan
(c) Praveen
(d) Puneet

Answer: (b)

8. Two statements are followed by two conclusions numbered I and II. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.
Statement:
Some pencil are marker.
Some marker are tap.
Conclusions:
(I) Some pencil are not marker.
(II) Some tap are not pencil.

(a) Only I follow
(b) Only II follows
(c) Either I or II follows
(d) Neither I nor II follows

Answer: (d)

9. Three statements are followed by two conclusions numbered I and II. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.
Statement:
All stairs are building.
No buildings are city.
Some city is district.
Conclusions:
(I) Some buildings are stairs.
(II) No building are district.

(a) Only I follow

(b) Only II follows

(c) Both I and II follow

(d) Neither I nor II follows

Answer: (a)

10. Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.
Statement:
All fruits are vitamin.
Some vitamin are not vegetable.
Some vegetables are green.
Conclusions:
(I) Some fruits are not vegetable.
(II) Some green are vegetable.
(III) Some vitamin are not fruits.

(a) Only I follow

(b) Only II follows

(c) Only I and II follow

(d) Only III follows

Answer: (b)

11. Select the set of numbers that is similar to the following set of numbers.
(9, 81, 729)

(a) (3, 9, 30)

(b) (7, 49, 343)

(c) (12, 144, 221)

(d) (6, 36, 92)

Answer: (b)

12. In the question below, a statement is followed by two conclusions. Study the conclusions and select the correct option as the answer.
Statement:
$S \geq T < U > P$
Conclusions:
I. $S > P$
II. $U < S$

(a) Only II follows
(b) Neither I nor II follows
(c) Both I and II follow
(d) Only I follows

Answer: (b)

13. In the following question, select the missing number from the given series.
10, ?, 25, 42, 68

(a) 15
(b) 12
(c) 13
(d) 14

Answer: (a)

General Awareness

21. ____ is an historical monument which is not in the ate of Maharashtra.

(a) Bibi ka Maqbara
(b) Sunheri Mahal
(c) Panchakki
(d) Kevada Mosque

Answer: (d)

22. Who among the following spread the popularity of Kathak?

(a) Rukmani Devi Arundale
(b) Acchan Maharaj
(c) Guru Bipin Singh
(d) Guru Vempati Chinna Satyam

Answer: (b)

23. The festival of light, Hanukkah, is associated with which one of the following races?

(a) Muslim
(b) Jewish
(c) Christian
(d) Chinese

Answer: (b)

24. Which of the following trophy is not related to Cricket in India?

(a) Ranji Trophy
(b) Vijay Hazare Trophy
(c) Syed Mushtaq Ali Trophy
(d) Santosh Trophy

Answer: (d)

25. Allan Border medal 2021 from Cricket Australia was awarded to which famous Australian cricketer?

(a) Steve Smith
(b) David Warner
(c) Glenn Maxwell
(d) Mitchell Starc

Answer: (a)

26. The 'Bharat Ratna Award' is Presented to a maximum of how many people in a year?

(a) 1
(b) 2
(c) 3
(d) 4

Answer: (c)

27. Tsang Yin-hung, who recorded "world's fastest a nt of Everest by a woman" belongs to which country?

(a) Hong Kong
(b) North Korea
(c) South Korea
(d) Japan

Answer: (a)

28. (NSDL) is a financial organization.What is the full form of NSDL ?

(a) National Securities Depository Limited
(b) National Securities Debtors Limited
(c) National Secur Debtors Limited
(d) National Super Depository Limited

Answer: (a)

29. The two largest denomination notes demonetized on 8 November, 2016 in India were _____.

(a) 500 and 1000 rupee notes
(b) 200 and 1000 rupee notes
(c) 500 and 2000 rupee notes
(d) 500 and 100 rupee notes

Answer: (a)

30. A major step taken in _____ by the Indian government was the enactment of the Consumer Protection Act.

(a) 1984
(b) 1986
(c) 1992
(d) 1990

Answer: (b)

31. _____ is known as the Father of the Indian Constitution.

(a) Sardar Vallabhbhai Patel
(b) Shri Lal Bahadur Shstri
(c) Dr Babasaheb Ambedkar
(d) Shri Mohandas Gandhi

Answer: (c)

32. In 1956, an Act was passed to recognise ____as the only official language of Sri Lanka.

(a) Tamil
(b) Hindi
(c) Sinhala
(d) English

Answer: (c)

33. Electric Motor converts _____.

(a) Electrical energy into mechanical energy
(b) Mechanical energy into Electrical e
(c) Electrical energy into light energy
(d) light energy into mechanical energy

Answer: (a)

34. What is the molecular weight of heavy water?

(a) 15
(b) 26
(c) 20
(d) 30

Answer: (c)

35. Which one of the following Indian states is the largest producer of 'Manganese'?

(a) Odisha
(b) Karnataka
(c) Uttar Pradesh
(d) Telangana

Answer: (a)

36. _____ are species which are only found in some particular areas usually isolated by natural or geographical barriers.

(a) Endangered Species
(b) Rare Species
(c) Extinct Species
(d) Endemic Species

Answer: (d)

37. Who was the First Governor General of Bengal?

(a) Lord Clive
(b) Lord Warren Hastings
(c) C. Rajagopalachari
(d) Lord Canning

Answer: (b)

38. The Quit India movement against the British Rule was started in the year ___.

(a) 1940
(b) 1936
(c) 1942
(d) 1945

Answer: (c)

39. _____ was the higher portion of the Harappan tow and was located on the western side.

(a) Indus
(b) Citadel
(c) Lothal
(d) Navdatoli

Answer: (b)

40. Who is the current prime minister of Armenia?

(a) Scott Morrison
(b) Jacinda Ardern
(c) Justin Trudeau
(d) Nikol Pashinyan

Answer: (d)

Arithmetic Ability

44. Two numbers are in the ratio of 2 : 3. The product of their H.C.F. and L.C.M. is 150. The sum of the numbers is:

(a) 25
(b) 20
(c) 30
(d) 35

Answer: (a)

45. A shopkeeper purchased X shirts of different prices whose average cost price is Rs.1152. Y shirts from them got damaged whose average cost price is also Rs.1152. He again purchased Y shirts whose average cost price is Rs.576. Now the average cost price of shirts with the shopkeeper is Rs.960. Find the ratio X : Y.

(a) 6 : 1
(b) 8 : 1
(c) 5 : 2
(d) 7 : 3

Answer: (b)

46. Arun made an error of 7 percent in excess and 5 percent in deficit while measuring the length and breadth respectively of a rectangle. What is the percentage error in the area.

(a) 1.65 percent
(b) 12.35 percent
(c) 3.4 percent
(d) 3.35 percent

Answer: (a)

47. Out of his total salary, a person invests 30 percent in a scheme. If his savings is Rs.270 more than the amount in scheme and remaining amount of salary which is 25 percent, he spends, then what is the salary of a person?

(a) Rs.1800
(b) Rs.2400
(c) Rs.1200
(d) Rs.2000

Answer: (a)

49. A sells his goods 10 percent cheaper than B and 10 percent dearer than C; how much percent are C's rates lower than B's?

(a) 17.3 percent
(b) 15 percent
(c) 19 percent
(d) 18.2 percent

Answer: (d)

50. Ratio of 45 percent of A to 55 percent of B is 6 : 5. One-fourth of 1 less than the sum of A and B is 9. Find the value of A - 2B?

(a) −6
(b) −8
(c) −2
(d) −4

Answer: (b)

51. A total of 57 sweets were distributed among 10 children such that each girl gets 5 sweets and each boy gets 6 sweets. Find the number of girls.

(a) 6
(b) 5
(c) 4
(d) 3

Answer: (d)

52. Rs.500 was invested at 12 percent per annum simple interest and a certain sum of money at 10 percent per annum simple interest. If the sum of the interests on both the sum after 4 years is Rs.480, the later sum of money is:

(a) Rs.450
(b) Rs.750
(c) Rs.600
(d) Rs.550

Answer: (c)

53. The length of a road is 10 km. The number of plants required for plantation at a gap of 12.5 m on both sides of the road is:

(a) 800
(b) 801
(c) 1600
(d) 1602

Answer: (d)

54. A covers half of his distance with 20 km/h. [illegible]st with 30 km/h. What is the average speed of A?

(a) 20 kmph
(b) 24 kmph
(c) 25 kmph
(d) 26 kmph

Answer: (b)

56. A can do a piece of work in 6 hrs. B and C can do it in 9 hrs. A and C can do it in 4 hrs. How long will B alone take to do it?

(a) 10 days
(b) 8 days
(c) 36 days
(d) 24 days

Answer: (c)

General English

61. One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No error'.
The failure of the peace talks has lead to increased tension on the streets.

(a) The failure of the peace talks

(b) has lead to increased

(c) tension on the streets

(d) No error

Answer: (b)

64. Select the most appropriate option to substitute the bracketed part in the given sentence. If there is no need to substitute the bracketed part, select 'No improvement'.
It is not an assumption that (the religion doctrine had many to do) to do in the matter.

(a) the religion doctrine had any

(b) the religion doctrine had much

(c) the religion doctrine had

(d) No Improvement.

Answer: (b)

65. Select the most appropriate option to fill in the blank.
A number of people had _____ to watch the live performance.

(a) has gather

(b) has been gathered

(c) gather

(d) gathered

Answer: (d)

66. Select the most appropriate option to fill in the blanks.
Nowhere _____ it state that the company is filing for bankruptcy.

(a) would

(b) do

(c) does

(d) have

Answer: (c)

67. Select the most appropriate option to fill in the blanks.
The deal has not gone _____by the superiors. You are the winner for tonight!

(a) unnoticed

(b) noticed

(c) noticing

(d) notice

Answer: (a)

69. Select the most appropriate synonym for the given word.
Warning

(a) Mitigate
(b) Presage
(c) Honesty
(d) Pardon

Answer: (b)

71. Select the INCORRECTLY spelt word.

(a) Corresspond
(b) Colleague
(c) Commission
(d) Committee

Answer: (a)

72. Select the CORRECTLY spelt word.

(a) poseses
(b) posesses
(c) possesses
(d) posseses

Answer: (c)

73. In the following question, out of the four given options, select the one that best expresses the meaning of the idiom/phrase.
Break the bank.

(a) To further a loss with mockery or indig...
(b) To bear a severe loss.
(c) To be conspicuous about something.
(d) Win more money than is held by the bank.

Answer: (d)

74. In the following question, out of the four given options, select the one which best expresses the meaning of the idiom/phrase.
Chew the scenery.

(a) To act overly emotional
(b) To mismanage
(c) To beautify
(d) To understate

Answer: (a)

75. Select the word which means the same as the following group of the words.
In complete agreement or showing complete agreement.

(a) Ubiquitous
(b) Anonymity
(c) Unanimous
(d) Unison

Answer: (c)

76. Johnson aspired to have a professional career in football. After that, he entered which of the following professions/fields/leagues?

(a) WWF Championship.
(b) NFL Draft.
(c) WWE Championship.
(d) Attitude Era.

Answer: (b)

77. Which of the following was Johnson's first leading film role?

(a) Rampage.
(b) G.I. Joe: Retaliation.
(c) Moana.
(d) The Scorpion King.

Answer: (d)

Discipline1

103. Which of the following statements is corr
1. Magnetic line of forces always start from north pole and end at south pole of the magnet.
2. The magnetic lines of forces never intersect each other Choose the correct code:

(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2

Answer: (c)

104. Which of the following is not a property of electromagnets?

(a) It is a permanent magnet.
(b) Its magnetic strength can be decreased or increased.
(c) Its polarity can be removed by reversing flow of electric current.
(d) It produces strong magnetic field.

Answer: (a)

106. Which of the following is not a limitation of biomass as a source of energy?

(a) The bio-fuel is not as energy-efficient as petrol.

(b) If the biomass is directly burnt, it may contribute to global warming and increase emissions causing environmental pollution.

(c) The main ingredient of biofuel i.e., ammonia is harmful to the environment.

(d) Biomass is a relatively expensive source for generating energy, both in terms of producing the biomass and converting it to ethanol.

Answer: (c)

107. Which of the following is not a limitation of generation of wind energy?

(a) They are hazardous for wildlife.

(b) Wind-mills are always unsightly and damage the scenic beauty.

(c) Wind power is not available all the time.

(d) Wind farms can be noisy.

Answer: (b)

108. What is the full-form of OTEC?

(a) Ocean Thermal Electricity Cultivation

(b) Ocean Thermal Energy Conversion

(c) Ocean Temperature Electricity Conversion

(d) Ocean Temperature Energy Cultivation

Answer: (b)

109. Which of the following statements is incorrect?
1. The ocean energy is preferable to that of wind.
2. The tidal energy systems can have environmental impacts on tidal basins.
Choose the correct code:

(a) Only 1

(b) Only 2

(c) Both 1 and 2

(d) Neither 1 nor 2

Answer: (d)

111. Find the work done by the force of gravity during the time a particle of mass 80 gm goes up on being thrown vertically upwards with a speed of 10m/s.

(a) -2.0 J

(b) -4.0 J

(c) -2.5 J

(d) -3.0 J

Answer: (b)

113. Which of the following is not an example of conservative force?

(a) Force of friction

(b) Force of gravity

(c) Force of spring

(d) Coulomb force

Answer: (a)

114. The _____ and the _____ of a system, taken together, form _____.
1. Kinetic energy
2. Potential energy
3. Mechanical energy
4. Thermal energy
Choose the correct code.

(a) 1, 2, 3

(b) 3, 1, 2

(c) 3, 2, 1

(d) 4, 3, 1

Answer: (a)

115. Archimedes principle states that when a body is _____ dipped in to a fluid at rest, the fluid exerts an _____ force of buoyancy _____ the weight of the displaced fluid.

(a) Partially, upwards, less than

(b) Partially or fully, upward, equal to

(c) Partially or fully, downward, equal to

(d) Fully, upward, more than

Answer: (b)

116. Which of the following statements is/are true about Iris?
1. Iris is the colored part that we see in an eye.
2. In low light condition, the Iris expands the pupil.
3. in good light condition, the Iris contracts the pupil.
Choose the correct code:

(a) Only 1

(b) Only 1 and 2

(c) Only 2 and 3

(d) 1, 2 and 3 only

Answer: (d)

117. In a Galilean Telescope a _____ lens is used as the objective and a _____ lens is used as the eye-piece.
A. Convergent
B. Divergent
Choose the correct code:

(a) A, A

(b) A, B

(c) B, A

(d) B, B

Answer: (b)

119. If we can count the number of the compressions or rarefactions that cross us per unit time, we will get the _____ of the sound wave.

(a) Frequency

(b) Angular frequency

(c) Wavelength

(d) Bandwidth

Answer: (a)

120. The term impending motion means:

(a) Motion that would take place (but does not actually take place) under the applied force, if friction were absent.

(b) Motion that would not take place (but does actually take place) under the applied force, if friction were absent.

(c) Motion that would take place (but does not actually take place) under no applied force, if friction were absent.

(d) Motion that would take place (but does not actually take place) under the applied force, if friction were present.

Answer: (a)

Discipline2

121. A large force acting for a short time to produce a finite change in momentum is called a/an:

(a) Compressed force

(b) Momentum force

(c) Circular force

(d) Impulsive force

Answer: (d)

123. If a ball is thrown vertically up at a speed of 3 ms -1 then find the maximum height the ball will reach. (g = 10 ms -2).

(a) 0.45 m

(b) 0.60 m

(c) 0.75 m

(d) 1.00 m

Answer: (a)

124. For an object, the image formed by a convex lens is 1. beyond 2F
2. real and inverted
3. enlarged
Where is the object placed?

(a) Between F and the pole

(b) At F

(c) Between F and 2F

(d) At 2F

Answer: (c)

125. Work done is zero:

(a) When force and displacement are in the same direction.

(b) When force and displacement of the body are in opposite directions.

(c) When force acting on the body is perpendicular to the direction of the displacement of the body.

(d) When force makes an angle with displacement.

Answer: (c)

128. _____ came to the conclusion that in every chemical reaction, total masses of all the reactants is equal to the masses of all the products.
This law is known as the law of conservation of mass.

(a) Antoine Lavoisier

(b) Claude Berthollet

(c) Joseph Proust

(d) Dalton

Answer: (a)

131. Which of the following is correct?

(a) Mass number = number of protons

(b) Mass number = number of protons + number of neutrons

(c) Mass number = number of neutrons

(d) Mass number = number of protons + atomic number + number of neutrons

Answer: (b)

133. Which of the following scientists performed the Gold Foil Experiment?

(a) J. J. Thomson

(b) Earnest Rutherford

(c) Claude Berthollet

(d) Dalton

Answer: (b)

134. Electromagnetic radiation is a kind of energy, which is transmitted through space in the form of - 1. Electric field
2. Magnetic field
Choose the correct code:

(a) Only 1

(b) Only 2

(c) Both 1 and 2

(d) Neither 1 nor 2

Answer: (c)

135. A microwave radiation has a frequency of 14 gigahertz. Calculate the energy of the photon corresponding to this radiation. (h = 6.626 × 10 -34 J s and 1 gigahertz = 10 9 Hz.)

(a) 7.95 × 10 -24 J

(b) 9.28 × 10 -24 J

(c) 92.8 × 10 -24 J

(d) 9.28 × 10 -21 J

Answer: (b)

136. In the long form of periodic table, there are _____ vertical columns called groups and _____ horizontal rows called periods.

(a) 15, 7

(b) 7, 18

(c) 18, 7

(d) 19, 7

Answer: (c)

137. Group 1 elements of the periodic table except hydrogen, are called-

(a) Alkali Metals

(b) Alkaline earth metals

(c) Halogens

(d) Noble gas

Answer: (a)

138. Which of the following types of intermolecular interactions or forces is/are called van der Waals forces?
1. London forces
2. Dipole – dipole forces
3. Dipole – induced dipole forces
4. Hydrogen bonding
Choose the correct code:

(a) Only 1 and 2

(b) Only 3 and 4

(c) Only 1, 2 and 3

(d) Only 2, 3 and 4

Answer: (c)

139. Which of the following is the weakest of all the intermolecular forces?

(a) London forces

(b) Hydrogen bonding

(c) Dipole – induced dipole forces

(d) Dipole – dipole forces

Answer: (a)

140. Hydrogen bonding is responsible for which of the following unusual property/ies of water?
1. Its existence in liquid state over a wide range of one hundred degrees (273 K to 373 K).
2. High heats of fusion and vaporization
3. Its solid form (ice) being heavier than liquid water.
Choose the correct code:

(a) Only 1 and 2

(b) Only 2 and 3

(c) Only 1 and 3

(d) 1, 2 and 3

Answer: (a)

Discipline3

141. The volume occupied by a given mass of a gas at 298 K is 25 mL at 1 atmospheric pressure. Calculate the volume of the gas if the pressure is increased to 1.25 atmosphere keeping temperature constant.

(a) 30 ml

(b) 40 ml

(c) 20 ml

(d) 15 ml

Answer: (c)

142. Which of the following laws states that - Pressure of given amount of a gas at constant volume is directly proportional to its absolute temperature?

(a) Charles' law

(b) Boyle's law

(c) Gay Lussac's law

(d) Avogadros' law

Answer: (c)

143. Which of the following is/are the way/s for describing concentration of solution.
1. Molarity
2. Molality
3. Mole fraction
Choose the correct code:

(a) Only 1 and 2

(b) Only 2 and 3

(c) Only 1 and 3

(d) 1, 2 and 3

Answer: (d)

144. _____ is defined as the number of gram equivalent weights of solute dissolved per litre of the solution

(a) Molarity

(b) Molality

(c) Normality

(d) Mole fraction

Answer: (c)

145. Phenylmethanol is also known as -

(a) Benzyl alcohol

(b) Isobutyl alcohol

(c) N-propyl alcohol

(d) Cyclohexyl alcohol

Answer: (a)

146. Haloalkanes can be converted to corresponding alcohols using _____ as nucleophiles.
1. Aqueous sodium hydroxide
2. Aqueous potassium hydroxide
3. Water
Choose the correct code:

(a) Only 1 and 2

(b) Only 2 and 3

(c) Only 1 and 3

(d) 1, 2 and 3

Answer: (d)

147. Non-metals do not displace _____ from dilute acids.

(a) Oxygen

(b) Hydrogen

(c) Nitrogen

(d) Carbon

Answer: (b)

148. Which of the following statements is true regarding the extraction process of mercury?
1.Cinnabar (HgS), an ore of mercury is first reacted with water and it converts into mercuric oxide (HgO).
2. Mercuric oxide is then reduced to mercury by heating.

(a) Only 1

(b) Only 2

(c) Neither 1 nor 2

(d) Both 1 and 2

Answer: (b)

150. Which of the following is NOT true?

(a) Decomposition reactions are opposite to combination reactions.

(b) Precipitation reactions produce soluble salts.

(c) Two different atoms or groups of atoms (ions) are exchanged in double displacement reactions.

(d) Reduction is the loss of oxygen or gain of hydrogen.

Answer: (b)

152. Which of the following is produced by the action of chlorine on dry slaked lime?

(a) Plaster of Paris

(b) Soap

(c) Bleaching powder

(d) Washing soda

Answer: (c)

153. Which of the following orders are correct with respect to decreasing reactivity?

(a) Calcium > Lead > Copper

(b) Mercury > Silver > Aluminium

(c) Iron > Magnesium > Sodium

(d) Calcium > Sodium > Iron

Answer: (a)

154. What would be the pH of an aqueous solution of sulphuric acid which is 5 × 10 -3 mol L -1 in concentration?

(a) 1

(b) 2

(c) 3

(d) 4

Answer: (b)

155. Which of the following orders is correct with respect to increasing pH levels?

(a) Egg White < Blood plasma < Caustic Soda 4 percent (NaOH)

(b) Ammonia water < Sea water < Antacid

(c) Antacid < Baking Soda < Blood plasma

(d) Egg white < Antacid < Caustic Soda 4 percent (NaOH)

Answer: (d)

156. Which of the following structures is not involved in the transmission of light of the visual system?

(a) Aqueous humour

(b) Vitreous humour

(c) Cornea

(d) Capillary nerves

Answer: (d)

157. The (i)____ opens completely through the relaxation of the (ii)_____.

(a) (i) pupil, (ii) iris

(b) (i) iris, (ii) pupil

(c) (i) pupil, (ii) cornea

(d) (i) cornea, (ii) iris

Answer: (a)

158. Which of the following is true?
1. Myopia can be corrected by a convex lens.
2. Hypermetropia is known as far-sightedr
Choose the correct code:

(a) Only 1

(b) Only 2

(c) Both 1 and 2

(d) Neither 1 nor 2

Answer: (b)

159. The virus causing Japanese encephalitis, or brain fever, will enter our body through _____.

(a) Mosquito bite

(b) Sexual act

(c) Sneezing

(d) Handshake

Answer: (a)

160. Which of the following pathogens causes acne?

(a) Leishmania

(b) Staphylococci

(c) Trypanosoma

(d) Ascaris lumbricoides

Answer: (b)

Discipline4

161. A traditional technology is helped by India's "waterman" _____ , to save thousands of parched villages and transform the lives of thousands of villagers in one of India's most arid regions.

(a) Mr. Udynath Chauhan

(b) Dr. Rajendra Singh

(c) Dr. Shivaji Raut

(d) Mr. Vinayak Goswami

Answer: (b)

162. Kreb's Cycle is also known as the-

(a) Carbon cycle

(b) Citric acid cycle

(c) Ammonia cycle

(d) Nitrogen cycle

Answer: (b)

163. Mark the incorrect statement regarding Evolution.

(a) Evolution can be worked out by the study of not just living species, but also fossils.

(b) Evolutionary relationships are traced in the classification of organisms.

(c) Organs or features may be adapted to new functions during the course of evolution.

(d) Study of the evolution of human beings indicat[illegible]hat all of us belong to a different species that evolved in Africa and America and spread ac[illegible]s the world in stages.

Answer: (d)

164. (i)_____tells us how life evolved from [illegible] more complex forms and (ii)_____ give us the mechanism for the inheritance of traits from [illegible] generation to the next.

(a) (i) Mendel's experiments, (ii) Darwin's theory of evolution

(b) (i) Darwin's theory of evolution , (il) Mendel's experiments

(c) (i) Russell Wallace's experiments, (ii) Mendel's experiments

(d) (i) Darwin's theory of evolution, (ii) Russell Wallace's experiments

Answer: (b)

165. Which of the following is correctly matched.
1. Unisexual flower - Papaya 2. Bisexual - Hibiscus

(a) Only 1

(b) Only 2

(c) Both 1 and 2

(d) Neither 1 nor 2

Answer: (c)

166. In human female reproductive system, egg is carried from the ovary to the womb through:

(a) Cervix
(b) Fallopian tube
(c) Vagina
(d) Bladder

Answer: (b)

167. Which of the following is a hormone primarily released by the pineal gland at night, and has long been associated with control of the sleep–wake cycle?

(a) Insulin
(b) Testosterone
(c) Melatonin
(d) Adrenaline

Answer: (c)

168. _____ releases growth hormone releasing factor which stimulates the pituitary gland to release growth hormone.

(a) Hypothalamus
(b) Pancreas
(c) Ovaries
(d) Adrenal gland

Answer: (a)

169. The growth of pollen tubes towards ovules is an example of:

(a) Geotropism
(b) Hydrotropism
(c) Chemotropism
(d) Aerotropism

Answer: (c)

170. Which of the following has a bilaterally symmetrical and triploblastic body?

(a) Coelenterata
(b) Platyheminthes
(c) Porifera
(d) Gymnosperms

Answer: (b)

171. Which of the following is an example of Cyclostomes?

(a) Petromyzon
(b) Octopus
(c) Sea star
(d) Sea Urchin

Answer: (a)

172. Which of the following is not muscle tissue?

(a) Areolar tissue
(b) Striated tissue
(c) Unstriated tissue
(d) Cardiac tissue

Answer: (a)

173. Spongilla is an example of:

(a) Porifera
(b) Cnidaria
(c) Coelenterata
(d) Annelida

Answer: (a)

174. The walls of the small intestine contain glands which secrete intestinal juice and the enzymes present in it finally convert the proteins to:

(a) Fatty acids
(b) Glycerol
(c) Glucose
(d) Amino acids

Answer: (d)

175. _____ breaks down starch which is a comple molecule to give simple sugar.

(a) Salivary amylase
(b) Pepsin
(c) Trypsin
(d) Papain

Answer: (a)

176. Mixture of which of the following is used as anaesthesia in surgical operations?

(a) Oxygen and Nitrous Oxide
(b) Oxygen and Water
(c) Oxygen and Hydrogen
(d) Oxygen and acetylene

Answer: (a)

177. Corrosion means deterioration of metals by which of the following?

(a) Electromechanical Process
(b) Biochemical Process
(c) Electrochemical Process
(d) Bioelectric Process

Answer: (c)

180. The main layer of atmosphere from 10 kms above the surface of earth up to 50 kms is called-

(a) Troposphere
(b) Stratosphere
(c) Mesosphere
(d) Thermosphere

Answer: (b)

Discipline5

181. Ozone layer protects us from the harmful ultraviolet radiations from the sun, which is a known cause for which of the following?

(a) Skin Cancer
(b) Leukemia
(c) Schizophrenia
(d) Lymphoma

Answer: (a)

182. Who in 1674 proved that air is not an element but is a mixture of two substances, one of which is active and the other is non-active?

(a) Robert Boyle
(b) John Mayow
(c) Joseph Priestley
(d) C W Scheele

Answer: (b)

183. Dead plants and animals return nitrogen to the soil as which of the following?

(a) Nitrous Oxide
(b) Ammonium Compounds
(c) Sodium Nitrate
(d) Nitric Acid

Answer: (b)

184. In water cycle the movement of water through the soil is known as -

(a) Percolation
(b) Transpiration
(c) Precipitation
(d) Evaporation

Answer: (a)

185. Which of the following is NOT a cause of noise pollution?

(a) Loud Speakers
(b) Noisy Fireworks
(c) Thunder
(d) Industrial Activities

Answer: (c)

186. The branch of agricultural science which is concerned with crop production and the management of farms is called as:

(a) Agrology
(b) Agricultural Engineering
(c) Agronomy
(d) Agro-studies

Answer: (c)

187. Pumpkin, water-melon, red-melon, gourd, cucumber, green chillies, tomatoes and sunflower are examples of which of the following?

(a) Kharif Crops
(b) Rabi Crops
(c) Zaid Crops
(d) Intermediate Crops

Answer: (c)

188. Which of the following is sown by transplantation method?

(a) Wheat
(b) Cucumber
(c) Oranges
(d) Rice

Answer: (d)

189. Kharif season lasts for which of the following t period of the year?

(a) November to April
(b) June to October
(c) February to May
(d) August to December

Answer: (b)

190. Which of the following does not help in weed control in crop production?

(a) Inter-cropping
(b) Crop rotation
(c) Transplantation
(d) Mechanical removal of weeds

Answer: (c)

Teaching Methodology

191. Which of the following sections of the Right to Education Act, 2009 provides for the curriculum and evaluation procedure?

(a) 29
(b) 31
(c) 33
(d) 35

Answer: (a)

192. By what age does early imaginative fears generally disappear amongst children?

(a) 8 years
(b) 12 years
(c) 15 years
(d) 18 years

Answer: (b)

193. Which of the following forms of gender-discrimination has/ve been seen in classrooms in India?
1. boys receive more academic help
2. teachers criticize the girls severely when they deviate from gender roles Choose the correct code.

(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2

Answer: (c)

194. Which of the following is not a step in the scientific method of solving a problem?

(a) Sensing the problem
(b) Analysis of the problem
(c) Memorizing the steps to solve the problem
(d) Collecting the data

Answer: (c)

195. Who stated that the most useful scientific attitudes are open-mindedness, critical mindedness, respect for evidence, suspended judgment, intellectual honesty, willingness to change opinion, search for truth, curiosity, rational thinking, etc.?

(a) Bhaskara Rao
(b) C V Raman
(c) Ravindra Kumar
(d) Aalok Vij

Answer: (a)

196. Which of the following is a feature of Summative Assessment?

(a) It is administered at the terminal stage of a course.

(b) Grades do not carry much weight.

(c) It is process-oriented.

(d) It can be flexible as per the needs of the students.

Answer: (a)

197. Education can be – 1. Formal
2. Informal

(a) Neither 1 nor 2

(b) Both 1 and 2

(c) Only 1

(d) Only 2

Answer: (b)

198. Which of the following is a very detailed and specific plan consisting of intended learning outcomes, description of teaching- learning strategies and activities and actual tool for assessment of the learning outcomes?

(a) Year Plan

(b) Semester Plan

(c) Unit Plan

(d) Lesson Plan

Answer: (d)

199. As per the National Center for Improvi Scie Education how many scientific concepts are there for elementary education?

(a) 5

(b) 7

(c) 9

(d) 11

Answer: (c)

200. Which of the following is not advised to be kept in mind while selecting activities for co-curricular activities?

(a) Activities should be reasonably large in number and varied

(b) The activities should not impose excess strain on the students

(c) Students must be forced to participate in all the activities.

(d) The activities should be in accordance with students' interest and ability.

Answer: (c)

Answer key

Answer key from the Delhi Subordinate Services Selection Board's official answer key for this sitting. "—" means the key gave none.

General Ability

1	**(d)**	2	**(b)**	3	**(a)**	4	**(c)**	5	**(c)**	6	**(a)**	7	**(b)**	8	**(d)**
9	**(a)**	10	**(b)**	11	**(b)**	12	**(b)**	13	**(a)**						

General Awareness

21	**(d)**	22	**(b)**	23	**(b)**	24	**(d)**	25	**(a)**	26	**(c)**	27	**(a)**	28	**(a)**
29	**(a)**	30	**(b)**	31	**(c)**	32	**(c)**	33	**(a)**	34	**(c)**	35	**(a)**	36	**(d)**
37	**(b)**	38	**(c)**	39	**(b)**	40	**(d)**								

Arithmetic Ability

44	**(a)**	45	**(b)**	46	**(a)**	47	**(a)**	49	**(d)**	50	**(b)**	51	**(d)**	52	**(c)**
53	**(d)**	54	**(b)**	56	**(c)**										

General English

61	**(b)**	64	**(b)**	65	**(d)**	66	**(c)**	67	**(a)**	69	**(b)**	71	**(a)**	72	**(c)**
73	**(d)**	74	**(a)**	75	**(c)**	76	**(b)**	77	**(d)**						

Discipline1

103	**(c)**	104	**(a)**	106	**(c)**	107	**(b)**	[illegible]	**(b)**	109	**(d)**	111	**(b)**	113	**(a)**
114	**(a)**	115	**(b)**	116	**(d)**	117	[illegible]	9	**(a)**	120	**(a)**				

Discipline2

121	**(d)**	123	**(a)**	124	**(c)**	125	**(c)**	128	**(a)**	131	**(b)**	133	**(b)**	134	**(c)**
135	**(b)**	136	**(c)**	137	**(a)**	138	**(c)**	139	**(a)**	140	**(a)**				

Discipline3

141	**(c)**	142	**(c)**	143	**(d)**	144	**(c)**	145	**(a)**	146	**(d)**	147	**(b)**	148	**(b)**
150	**(b)**	152	**(c)**	153	**(a)**	154	**(b)**	155	**(d)**	156	**(d)**	157	**(a)**	158	**(b)**
159	**(a)**	160	**(b)**												

Discipline4

161	**(b)**	162	**(b)**	163	**(d)**	164	**(b)**	165	**(c)**	166	**(b)**	167	**(c)**	168	**(a)**
169	**(c)**	170	**(b)**	171	**(a)**	172	**(a)**	173	**(a)**	174	**(d)**	175	**(a)**	176	**(a)**
177	**(c)**	180	**(b)**												

Discipline5

181	**(a)**	182	**(b)**	183	**(b)**	184	**(a)**	185	**(c)**	186	**(c)**	187	**(c)**	188	**(d)**
189	**(b)**	190	**(c)**												

Teaching Methodology

191	**(a)**	192	**(b)**	193	**(c)**	194	**(c)**	195	**(a)**	196	**(a)**	197	**(b)**	198	**(d)**
199	**(c)**	200	**(c)**												