

###COMMON###1###1### Each item in this section consists of a sentence with an underlined word followed by four options. Select the option that is **opposite in meaning** to the underlined word and mark your response accordingly. ###DONE###

1. Some of their customs are barbarous.

- A. civilized
- B. modern
- C. polite
- D. praiseworthy

###COMMON###2###2### In this section, each item consists of a word a phrase which is underlined in the sentence given. It is followed by four words or phrases. Select the word or phrase which is closest to the opposite in meaning of the underlined word of phrase. ###DONE###

2. He will never turn down your request.

- A. turn up
- B. turn over
- C. reject
- D. accept

###COMMON###3###3### In the following question, out of the four alternatives, select the word similar in meaning to the given word. ###DONE###

3. LAID-BACK

- A. Lie in wait
- B. Sorry state
- C. Lamé
- D. Easy going

4. Some portion of a 20 meters long tree is broken by the wind and the top struck the ground at an angle of  $30^\circ$ . The height of the point where the tree is broken is

- A. 10 m
- B.  $(2\sqrt{3} - 3) 20$  m
- C.  $\frac{20}{3}$  m
- D. None of these

###COMMON###5###5### **Direction:** In this section, you have few short passages. After each passage, you will find some items based on the passage. First, read a passage and answer the items based on it. You are required to select your answers based on the contents of the passage and opinion of the author only.

The South Indian Liberal Federation, also referred to as the Justice Party, may be alien to the present day generation. How many thinkers and intellectuals know that the Justice Party was a progressive movement that introduced women suffrage in April 1921 in the then Madras province? How many of those who fight for women's rights now are aware that the Devadasi system was abolished by the Justice Party government, which was formed in 1920? A political party in the opposition was so vociferously opposed to this idea that its distinguished members indulged in a war of words with the social reformer, women's rights activist and writer, Dr. Muthulakshmi Reddy, in the Legislative Council. But the brave lady and a firm Justice Party had the last word. ###DONE###

5. Who were indulged in war of words regarding abolition of devadasi system?

- A. Justice party and the local activists.
- B. Opposition party and the national leader of the justice party.
- C. The distinguished members of the then opposition party and the social reformer, women's rights activist and writer, Dr. Muthulakshmi Reddy.
- D. victims of the devasdasi system and the justice party.

6. According to the passage what can be the best title for the passage?

- A. Justice party the torch bearer of reform.
- B. Abolishing the Devadasi system
- C. Introducing Women suffrage
- D. Dr. Muthulakshmi Reddy the real reformer.

7. Which party introduced women suffrage in Madras?

- A. The South Indian Federal Federation also known as Liberal party.
- B. The South Indian Liberal Federation also known as justice party started the progressive movement to abolish devadasi system.
- C. National Democratic Alliance also known as Janta party
- D. United progressive Alliance.

8. The word synonymous to underlined word is "A political party in the opposition was so vociferously opposed to this idea" is

- A. Tender
- B. Quiet
- C. Tranquil
- D. Vehement

9.

As given in the passage Devadasi system was \_\_\_\_\_

- A. Prevalent in Madras and abolished by Justice party government.
- B. A tradition prevalent in North India
- C. Ancient philosophy of wisdom
- D. Revolutionary idea of women education.

###COMMON###10###10###**Fill in the blanks with appropriate blanks: ###DONE###**

10.

He \_\_\_\_\_ a teacher for over 20 years.

- A. is
- B. was
- C. has been
- D. was been

###COMMON###11###11###Given below are a few sentences. Identify the part of speech of the underlined words. Choose the response (A), (B), (C) or (D) which is the most appropriate expression.

###DONE###

11. Fortunately, Lata recorded Tim's win.

- A. Noun
- B. Pronoun
- C. Adverb
- D. Preposition

12. The angle of depression of a car parked on the road from the top of a 150m. high tower is  $30^\circ$ . The distance of the car from the tower is

- A.  $50\sqrt{3}$
- B.  $150\sqrt{3}$
- C.  $150\sqrt{2}$
- D. 75

13. The Partition of Bengal (1905) was immediately followed by

- A. Non-Cooperation Movement
- B. Swadeshi Movement
- C. Civil Disobedience Movement
- D. Quit India Movement

14. The area under the curve  $z = x^2 - 3x + 2$  with boundaries as X-axis and the ordinates  $x=0$ ,  $x=3$  in sq. units is

- A.  $\frac{3}{5}$
- B.  $\frac{3}{2}$
- C.  $\frac{7}{6}$
- D.  $\frac{4}{5}$

15.  $f(y) = 2 \cdot e^{y^2-4y}$  decreases in

- A.  $(-\infty, -2)$
- B.  $(-\infty, 2)$
- C.  $R$
- D. Can not determine

16. If  $x = \frac{1}{y^2+y-2}$  where  $y = \frac{1}{t-1}$ , then the number of discontinuous points of  $x = f(t)$ ,  $t \in R$  is:

- A. 2
- B. 3
- C. 4
- D. 1

17. An ITCZ can be located near -

- A. Equator
- B. Tropics
- C. Poles
- D. Either B or C

18. The sowing season for Rabi crop is.

- A. January – February
- B. March – April
- C. June – July
- D. October – November

19. Which of the following states does not share a boundary with Assam?

- A. Meghalaya
- B. Mizoram
- C. Sikkim
- D. Tripura

###COMMON###20###20###**For the next two (02) items that follow :**

Consider the integrals

$$I_1 = \int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{dx}{1 + \sqrt{\tan x}} \quad \text{and} \quad I_2 = \int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{\sqrt{\sin x} \, dx}{\sqrt{\sin x} + \sqrt{\cos x}} .$$

###DONE###

20. What is  $I_1$  equal to?

- A.  $\pi/24$
- B.  $\pi/18$
- C.  $\pi/12$
- D.  $\pi/6$

21.

What is  $I_1 - I_2$  equal to ?

- A. 0
- B.  $2I_1$
- C.  $\pi$
- D. None of the above

22. Find set of values of  $y$  that satisfy  $\frac{2^y(y-1)}{(y-2)^2} \leq 0$

- A.  $R$
- B.  $R - \{2\}$
- C.  $(-\infty, 1)$
- D.  $(-\infty, 1]$

23. The area in the first and second quadrant bounded by  $y = 4x^2$ ,  $x = 0$ ,  $y = 1$  and  $y = 4$  is

- A.  $\frac{7}{3}$
- B.  $\frac{14}{3}$
- C.  $\frac{8}{3}$
- D.  $\frac{13}{3}$

24. Find the equation of the tangent to the circle  $x^2 + y^2 - 6x - 1 = 0$  at point  $(1, 2)$

- A.  $y - x = 2$
- B.  $x + y - 2 = 0$
- C.  $2x - y - 3 = 0$
- D. No such tangent exist

25.If  $n(U) = 70$  ,  $n(A) = 30$ ,  $n(B) = 52$  then least and greatest value of  $n(A \cup B)$

- A. 30 & 52
- B. 52 & 70
- C. 30 & 70
- D. 70 & 82

26.Find exponent of 6 in  $125!$

- A. 60
- B. 58
- C. 57
- D. 59

27.If the lines  $x = a + \beta$ ,  $y = -2$  and  $y = \beta x$  are concurrent, then the least value of  $|a|$  is -

- A.  $2\sqrt{2}$
- B.  $3\sqrt{2}$
- C. 2
- D. 3

28.Let  $A = \{\alpha, \beta, \gamma\}$ ,  $B = \{x, y\}$  . Then the number of relations from A to B is what times to the number of relations from B to A :

- A.  $2^8$  times
- B. 2 times
- C. infinite
- D. same

29.If  $f(t) = \cos^t(a) + \sin^t(a)$  , then find the value of  $2f(6) - 3f(4) + 1$

- A. 1
- B. 0
- C. -1
- D. -2

30.Who started the newspaper, Som Prakash -

- A. Dayanand Saraswati
- B. Dwarkanath Vidyabhusan
- C. Vinayak Damodar Savarkar
- D. Bal Gangadhar Tilak

31.Who repealed the Vernacular Press Act, 1878 in 1882 -

- A. Lord Ripon
- B. Warren Hashing
- C. Curzon
- D. Lord Minto

32.  $9^{n+1} - 8n - 9$  is divisible by 64 if n is \_\_\_\_\_.

- A. A positive integer
- B. A negative integer
- C. Rational number
- D. Real number

33. For the matrix  $X = \begin{bmatrix} 4 & 3 \\ 2 & 2 \end{bmatrix}$ , the values of 'p' and 'q' such that  $X^2 + pX + qI = O$  are:

- A. 6 and -2
- B. -6 and 0
- C. -6 and -2
- D. -6 and 2

34. Let  $f(x) = (x+1)^2 - 1, x \geq -1$

Statement-1: the set  $\{x : f(x) = f^{-1}(x)\} = \{0, 1\}$ .

Statement-2: f is a bijection.

- A. Both statements are true and 2<sup>nd</sup> is the correct explanation for the 1<sup>st</sup>.
- B. Both statements are true and 2<sup>nd</sup> is not the correct explanation for the 1<sup>st</sup>.
- C. 1<sup>st</sup> is true and 2<sup>nd</sup> is false
- D. 1<sup>st</sup> is false and 2<sup>nd</sup> is true

35.  $(1+i)^{2n} + (1-i)^{2n}$  is

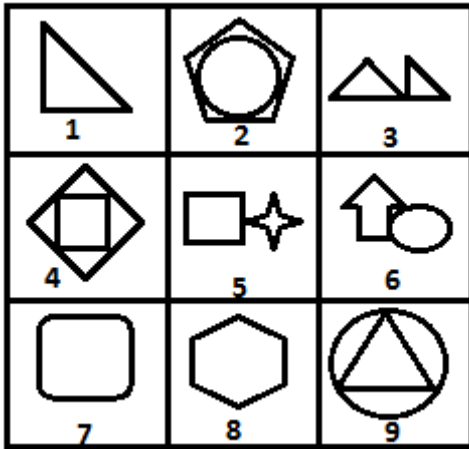
- A. A purely imaginary number
- B. A purely real number
- C. A non-real complex number
- D. A complex number in which real and imaginary parts are equal

36.  $\begin{vmatrix} 1 & 1+i+\omega^2 & \omega^2 \\ 1+i & -1 & -\sqrt{3}i \\ i & -i-1+\omega & -\omega \end{vmatrix}$  is equal to ( where  $\omega$  is cube root of unity)

- A. 0
- B. 1

- C. -1  
D.  $2\sqrt{3}$

37. In the below question, group the following figures into three classes using each figure only once.



- A. 1,2,3 ; 4,5,9 ; 6,7,8  
B. 2,4,5 ; 1,3,9 ; 6,7,8  
C. 1,7,8 ; 2,4,9 ; 3,5,6  
D. 1,3,9 ; 2,3,6 ; 4,5,7  
E. None of these

38. If  $|\overline{v_1 + v_2}| = |\overline{v_1 - v_2}|$  and  $\overline{v_2}$  is finite then

- A.  $\overline{v_1}$  is parallel to  $\overline{v_2}$   
B.  $\overline{v_1} = \overline{v_2}$   
C.  $|\overline{v_1}| = |\overline{v_2}|$   
D.  $\overline{v_1}$  and  $\overline{v_2}$  are mutually perpendicular

39. Find the missing series.

BXM, EUP, HRS, ?

- A. XZY  
B. RPN  
C. VTU  
D. KOV

40. Find out the alternative which will replace the question mark.

Base : Ignoble :: Zenith : ?

- A. Authentic  
B. Peak



- C. Anonymity
- D. Fortunate

41.If the distance between the earth and the sun becomes half its present value, the number of days in a year would have been

- A. 64.5
- B. 129
- C. 182.5
- D. 730

42.In certain language, 'pan tan san' means 'pen is gold', 'tan san van' means 'gold is old', 'san van kan' means 'old is bold', 'kan san haw' means 'bold is strong'. How is 'strong is pen' coded in that language?

- A. han san kan
- B. tan san van
- C. kan san tan
- D. pan haw san

43.In an N-type semiconductor, the Fermi level is 0.3 eV below the conduction band at a room temperature of  $300^{\circ}$  K. If the temperature is increased of  $350^{\circ}$  K, determine the new position of Fermi level.

- A. 0.3 eV
- B. 0.35 eV
- C. 0.4 eV
- D. 0.25 eV

44.The focal length of a convex lens in air is 10 cm. Find its focal length in water. Given that  $\mu_g = 3/2$  and  $\mu_w = 4/3$ .

- A. 30 cm
- B. 45 cm
- C. 25 cm
- D. 40 cm

45.what is the temperature where reading of Celsius and Fahrenheit scale are same?

- A.  $50^{\circ}$
- B.  $-40^{\circ}$
- C.  $-60^{\circ}$
- D.  $45^{\circ}$

46.If  $(2 + 3i)(1 + 3i)(2 + i)(3 + 4i) = x + iy$  then the value of  $x^2 + y^2$ ?

- A. 16000
- B. 16250
- C. 18250
- D. 18000

47. Four distinct points  $(2k, 3k)$ ,  $(1, 0)$ ,  $(0, 1)$  and  $(0, 0)$  lie on a circle for :

- A. All integral value of  $k$
- B.  $0 < k < 1$
- C.  $k < 1$
- D. For one values of  $k$

48. Consider an FM signal  $f(t) = \cos \left[ 2\pi \left( 400 \times 10^3 \right) t + 4 \sin 2\pi (200) t + 5 \sin 2\pi (300) t \right]$ . Calculate the maximum deviation of the instantaneous frequency from the carrier frequency is

- A. 2500 hz
- B. 3000 hz
- C. 4000 hz
- D. 2300 hz

49. The provisions for the distribution of power between the Centre and the States is derived from which of the following sources?

- A. Minto-Morley Reforms, 1909
- B. Montague-Chelmsford Act, 1919
- C. Government of India Act, 1935
- D. Indian Independence Act, 1947

50. The value of  $\frac{\log_a n}{\log_{ab} n}$

- A.  $1 + \log_a b$
- B.  $1 + \log_b a$
- C. 1
- D. 0

51. The equation  $3 \sin^2 x + 10 \cos x - 6 = 0$  is satisfied if :

- A.  $x = n\pi \pm \cos^{-1} \left( \frac{1}{3} \right)$
- B.  $x = 2n\pi \pm \cos^{-1} \left( \frac{1}{3} \right)$

C.  $x = n\pi \pm \cos^{-1}\left(\frac{1}{6}\right)$

D.  $x = 2n\pi \pm \cos^{-1}\left(\frac{1}{6}\right)$

###COMMON###52###52###Choose the alternative which best expresses the meaning of the given idiom/phrase in bold. ###DONE###

52.

Spick and span

- A. Clean, tidy and fresh
- B. Very quickly
- C. A renowned person
- D. Complete, thorough

53.Aman is the brother of Bhavya. Chetan is married to Dhanvi. If Chetan is the nephew of Bhavya. How is Aman related to Dhanvi?

- A. Mother- in – law
- B. Father
- C. Daughter-in-law
- D. Father- in – law

54.Choose the appropriate pronoun for the given sentences.

I like your idea. \_\_\_\_\_ interesting.

- A. She's
- B. Its
- C. They
- D. It

55.Choose the appropriate pronoun for the given sentences.

He didn't think the coach was as smart as \_\_\_\_\_.

- A. Himself.
- B. He
- C. His
- D. Him

56.If  $\theta = 929^\circ$  what is reference angle for  $\theta$  ?

- A.  $29^\circ$
- B.  $92^\circ$

C.  $99^\circ$ D.  $90^\circ$ 

57. Pick out the incorrect statement.

A. The tangent drawn to a line of force represents the direction of the electric field.

B. The electric field lines form a closed loop.

C. A negative test charge experiences a force opposite to the direction of the field.

D. Electric Field lines never intersect.

58. The flux of the electric field through a spherical surface of radius 10 cm surrounding the total charge is 25 V m. Electric charges are distributed in a small volume. What will be the flux over a concentric sphere having radius 20 cm?

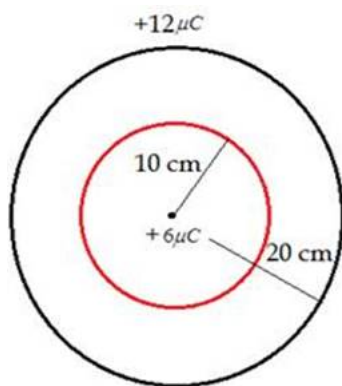
A. 25 V m

B. 50 V m

C. 100 V m

D. 200 V m

59. The given figure shows a spherical conducting shell has a surface charge of  $+12\mu C$ . If another charge  $+6\mu C$  is placed at the centre of the shell, Then what will be the surface charge density on the outer surface of the shell?

A.  $4.5 \times 10^{-5} C / m^2$ B.  $3.6 \times 10^{-5} C / m^2$ C.  $3 \times 10^{-4} C / m^2$ D.  $5.3 \times 10^{-5} C / m^2$ 

60. A man puts a heavy block of mass  $M$  on his head and jumps from the top of a multi-storied building to the ground. The force exerted by the block on the man's head during his free fall is

A.  $ma$ B.  $a$ 

C. 0

D. None of these

61. What will be the coefficient of kinetic friction if a block placed on an inclined plane with the slope angle  $\theta$  and it starts sliding down the plane at a constant speed?

- A.  $\sin \theta$
- B.  $\cos \theta$
- C.  $g$
- D.  $\tan \theta$

62. A closed cylindrical pipe containing some water solvent (not filling the entire tube) lies in a horizontal plane. If the pipe is rotated about a perpendicular bisector, the moment of inertia of water solvent about the axis

- A. increases
- B. decreases
- C. remains constant
- D. increases if the rotation is clockwise and decreases if it is anticlockwise

63. Raman walks a distance of 10 km towards North, then turns to his right and walks for 5 km. He again turns right and walks for 5 km. At this point he turns to his right again and walks for 10 km. In which direction is he facing now ?

- A. West
- B. North- East
- C. South- West
- D. None of these

###COMMON###64###64###**Direction:** Identify the parts of speech of the words given in bold.

###DONE###

64.

Selena scored **very** poor marks in mathematics.

- A. Adverb
- B. Adjective
- C. Verb
- D. Conjunction

###COMMON###65###65###**Direction:** Identify the parts of speech of the words given in bold.

###DONE###

65.

She usually eats at home **because** she likes cooking

- A. Adverb
- B. Preposition
- C. Conjunction
- D. Verb

66. According to Huygen's theory, the interference takes place due to

- A. superposition of secondary wavelets of the same wavefronts
- B. superposition of secondary wavelets of two different wavefronts
- C. bending of secondary wavelets at the slits
- D. none of the above

67. A beam of light of  $\lambda = 600 \text{ nm}$  from a distant source falls on a single slit 1 mm wide and the resulting diffraction pattern is observed on a screen 2 m away. The distance (in mm) between first dark fringes on either side of the central bright fringe is:

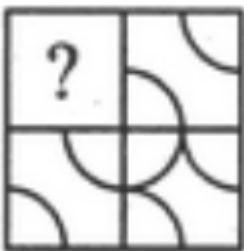
- A. 3.4
- B. 2.4
- C. 1.4
- D. 0.4

68. In Young's double-slit experiment, the fringes are displaced by a distance  $x$  when a glass plate of one refractive index 1.5 is introduced in the path of one of the beams. When this plate is replaced by another plate of the same thickness, the shift of fringes is  $\frac{3}{2}x$ . The refractive index of the second plate is

- A. 1.75
- B. 1.50
- C. 1.25
- D. 1.00

69. Identify the figure that completes the pattern:

Question figure:



Answer figure:



(1)



(2)



(3)



(4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. None of these

70. At what time between 4 and 5 are the hands of a clock will be 3 minutes apart?

- A.  $18\frac{6}{11}$  minute past 4
- B.  $30\frac{6}{11}$  minute past 4
- C.  $25\frac{1}{11}$  minute Past 4
- D. Both A and C

71. Read the series given in the question carefully and find out the missing number.

**0 , 6 , 24 , ? , 120**

- A. 40
- B. 60
- C. 55
- D. 80

72. Which of the following is not a property of a crystalline solid?

- A. It does not have a sharp melting point.
- B. High intermolecular forces.
- C. Definite and characteristic heat of fusion.
- D. They possess uniform chemical composition.

73. If the concentration of soap in the water is high, then soap behaves as \_\_\_\_\_

- A. Lyophilic colloid
- B. Macromolecular colloid
- C. Micromolecular colloid
- D. Associated colloid

74. What type of biomolecules carries out catalysis in biological systems?

- A. proteins called enzymes
- B. carbohydrates called starch
- C. lipids called steroids
- D. nucleic acids called DNA

75. Dehydration and hydrolysis reactions involve removing or adding which of the following biomolecules subunits?

- A. C and O
- B. OH and H
- C. CH and NH<sub>2</sub>
- D. COOH and H

76. Nucleic acids are chains of 5-carbon sugars. Which type of bonds present with an organic base protruding from each sugar?

- A. Amino
- B. Phosphodiester
- C. Carbonyl
- D. Phosphate

77. In which of the following solvent amylose is soluble?

- A. Water
- B. Alcohol
- C. Partially soluble in alcohol
- D. Soluble in acidic solution

###COMMON###78###78### Each of the following sentences in this section has a blank space and four words or group of words given after the sentence. Select the word or group of words you consider most appropriate for the blank space and indicate your response on the Answer Sheet accordingly. ###DONE###

78.

I \_\_\_\_\_ eaten my dinner when he called.

- A. have eaten
- B. had already
- C. will eat
- D. might eat

79. The Vansadhara Water Disputes Tribunal deals with a dispute between which of the following states?



- A. Tamil Nadu and Karnataka
- B. Andhra Pradesh and Telangana
- C. Kerala and Karnataka
- D. Odisha and Andhra Pradesh

80.If two bullets are fired simultaneously, horizontally, and at different speeds from the same place then which bullet will hit the ground first?

- A. the faster one
- B. the slower one
- C. both will reach simultaneously
- D. depends on the masses.

81.Which of the following languages of India is not recognised under VIII Schedule of the Constitution?

- A. Telugu
- B. Nepali
- C. Hindi
- D. English

82.Mondo Duplantis is associated with which country who has been named the male World Athletes of the Year at the World Athletics Awards 2020?

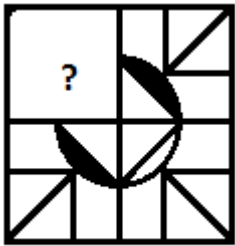
- A. USA
- B. Australia
- C. Sweden
- D. Denmark
- E. France

###COMMON###83###83###**Direction:** Select the option expressing the most appropriate meaning of the given idiom/phrase. ###DONE###

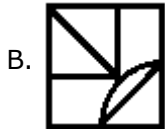
83. Tie the knot.

- A. To fight with someone
- B. To get married
- C. To make a decision
- D. Make thing complicated

84.Select a figure from amongst the four alternatives, which when placed in the blank space of fig. (X) would complete the pattern.



(X)



85. What is India's rank in the recently released United Nations' Human Development Index 2020?

- A. 131<sup>st</sup>
- B. 129<sup>th</sup>
- C. 137<sup>th</sup>
- D. 144<sup>th</sup>
- E. 155<sup>th</sup>

86. Who has been recently conferred with the 2020 Ramanujan Prize for Young Mathematicians?

- A. Chenyang Xu
- B. Ritabrata Munshi
- C. Hoang Hiep Pham
- D. Carolina Araujo

87. India's first-ever pollinator park opens in which state ?

- A. Uttarakhand
- B. Uttar Pradesh
- C. Madhya Pradesh
- D. Rajasthan

88. The 'Eagle-IX' military exercise is an exercise among which of the two countries?

- A. India and Pakistan
- B. China and Pakistan
- C. India and China
- D. None of the above

89. Who among the following is the author of the book titled 'Covid-19: Sabhyataka, Sankat Aur Samadhan'?

- A. Norman D Palmer
- B. Prem Prakash
- C. Dr A Sivathanu Pillai
- D. Kailash Satyarthi

90. Change the narration of the given sentence into direct/Indirect speech.

Angad said, "Honesty is the best policy."

- A. Angad said that honesty is the best policy.
- B. Angad said that honesty has been the best policy.
- C. Angad told that honesty was the best policy.
- D. Angad told that honesty is best.

91. Change the narration of the given sentence into direct/Indirect speech.

Ritu said, "Tanuja has a fine picture."

- A. Ritu said that Tanuja have a fine picture.
- B. Ritu said that Tanuja has a fine picture.
- C. Ritu told that Tanuja would have a fine picture.
- D. Ritu said that Tanuja had a fine picture.

92. Change the narration of the given sentence into direct/Indirect speech.

Mother said to me, "Do you know where your brother is?"

- A. Mother asked me if she knew where my brother was.
- B. Mother asked me whether I knew where my brother was.
- C. Mother asked me where is my brother.
- D. Mother asked me if I did know where my brother is.

93. Change the narration of the given sentence into direct/Indirect speech.

He said, "I intend to leave for Delhi tonight."

- A. He said that he intended to leave for Delhi that night.
- B. He said that he will intend to leave for Delhi tonight.

- C. He said that his intention is to leave for Delhi tonight.
- D. He said that he should leave for Delhi.

94. Change the voice of the given sentence into Active/Passive Voice.

**One should keep ones promises.**

- A. Promises should be kept.
- B. One promise should be kept.
- C. Promises should be kept by someone.
- D. Once a promise should be kept.

95. Change the voice of the given sentence into Active/Passive Voice.

**He impresses his boss with his performance.**

- A. His boss is impressed in his performance.
- B. His boss is impressed at his performance.
- C. His performance impresses his boss.
- D. His boss is impressed by his performance.

96. Change the voice of the given sentence into Active/Passive Voice.

**My father will write a letter.**

- A. A letter will have been written by my father.
- B. A letter is written by my father.
- C. A letter will be written by my father.
- D. A letter will be written by father.

97. Change the voice of the given sentence into Active/Passive Voice.

**Please shut the door and go to sleep.**

- A. Let the door be shut and you be sleep.
- B. The door should be shut and you should go to sleep.
- C. The door is to be shut and you are requested to go to sleep.
- D. You are requested to shut the door and go to sleep.

98. What will be the magnetic field intensity if the flux density is  $8 \times 10^{-6}$  Tesla in the medium of air.

- A. 6.36
- B. 3.66
- C. 6.63
- D. 3.36

99. Why is it difficult to classify bacteria?

- A. Due to the absence of a well-defined nucleus.
- B. Microscopic
- C. Mode of nutrition of these organisms can be either autotrophic or heterotrophic.
- D. All of these

100. The cell wall of a fungal cell is composed of \_\_\_\_\_.

- A. Cellulose
- B. Hemicellulose
- C. Chitin
- D. Proteins

### ANSWERS ###

1. Ans. A.

2. Ans. D.

3. Ans. D.

4. Ans. C.

5. Ans. C.

6. Ans. A.

7. Ans. B.

8. Ans. D.

9. Ans. A.

10. Ans. C.

11. Ans. C.

12. Ans. B.

13. Ans. B.

14. Ans. B.

15. Ans. B.

16. Ans. B.

17. Ans. A.

18. Ans. D.

19. Ans. C.

20. Ans. C.

21. Ans. A.

22. Ans. D.

23. Ans. B.

24. Ans. D.

25. Ans. B.

26. Ans. D.

27. Ans. A.

28. Ans. D.

29. Ans. B.

30. Ans. B.

31. Ans. A.

32. Ans. A.

33. Ans. D.

34. Ans. C.

35. Ans. B.

36. Ans. A.

37. Ans. C.

38. Ans. D.

39. Ans. D.

40. Ans. B.

41. Ans. B.

42. Ans. D.

43. Ans. B.

44. Ans. D.

45. Ans. B.

46. Ans. B.

47. Ans. D.

48. Ans. D.

49. Ans. C.

50. Ans. A.

51. Ans. B.

52. Ans. A.

53. Ans. D.

54. Ans. B.

55. Ans. D.

56. Ans. A.

57. Ans. B.

58. Ans. A.

59. Ans. B.

60. Ans. C.

61. Ans. D.

62. Ans. A.

63. Ans. A.

64. Ans. A.

65. Ans. C.

66. Ans. B.

67. Ans. B.

68. Ans. A.

69. Ans. C.

70. Ans. D.

71. Ans. B.

72. Ans. A.

73. Ans. D.

74. Ans. A.

75. Ans. B.

76. Ans. B.

77. Ans. A.

78. Ans. B.

79. Ans. D.

80. Ans. C.

81. Ans. D.

82. Ans. C.

83. Ans. B.

84. Ans. B.

85. Ans. A.

86. Ans. D.

87. Ans. A.

88. Ans. B.

89. Ans. D.

90. Ans. A.

91. Ans. D.

92. Ans. B.

93. Ans. A.

94. Ans. A.



95. Ans. B.

96. Ans. C.

97. Ans. D.

98. Ans. A.

99. Ans. D.

100. Ans. C.