

MCA Entrance Classes By Shivam Gupta

NIMCET 2020 Question Paper

Mathematics

- 1. If $\binom{15}{8} + \binom{15}{7} = \binom{n}{r}$, then the values of *n* and *r* are:
 - (A) 16 and 7 (B) 16 and 8
 - (D) 30 and 15 (C) 16 and 9
- 2. In a class of 50 students, it was found that 30 students read "Hitavad", 35 students read "Hindustan" and 10 read neither. How many students read both: "Hitavad" and "Hindustan" newspapers?
 - (A) 25 (C) 15 (D) 30 (B) 20
- $A = \{4^{x} 3x 1 \colon x \in \mathbb{N}\}\$ 3. If and $B = \{9(x - 1): x \in \mathbb{N}\}, \text{ where } \mathbb{N} \text{ is the set of }$ natural numbers, then

(A) $A \subset \boldsymbol{B}$ (B) A⊆ **B** (D) $A \supseteq B$ (C) $A \supset \boldsymbol{B}$

4. If $A = \{x, y, z\}$, then the number of subsets in powerset of A is (A) 6

(D) 9 **(B)** 8 (C) 7

5. How many words can be formed starting with letter D taking all letters from word DELHI so that the letters are not repeated:

- **(B)** 12 (A) 4 (C) 24 (D) 120
- 6. Naresh has 10 friends, and he wants to invite 6 of them to a party. How many times will 3 particular friends never attend the party? (A) 8 (C) 720 (D) 35
- **(B)** 7 7. There is a young boy's birthday party in which 3 friends have attended. The mother has arranged 10 games where a prize is awarded for a winning game. The prizes are identical. If each of the 4 children receives at least one prize, then how many distributions of prizes are possible?

(A) 80 **(B)** 84 (C) 70 (D) 72

- 8. Three cities A, B, C are equidistant from each other. A motorist travels from A to B at 30km/hour, from B to C at 40km/hour and from C to A at 50km/hour. Then the average speed is
 - (A) 39km/hour (B) 40km/hour (C) 38.3km/hour (D) 37.6km/hour

9. A problem in Mathematics is given to 3 students A, B and C. If the probability of A solving the problem is $\frac{1}{2}$ and B not solving it is $\frac{1}{4}$. The whole probability of the problem being solved is $\frac{63}{64}$, then what is the probability of solving it by C?

 $(A)\frac{1}{8}$ $(B)\frac{1}{64}$

(C) $\frac{7}{8}$ 10. A and B play a game where each is asked to select a number from 1 to 25. If the two numbers match, both win a prize. The probability that they will not win a prize in a single trial is

 $(D)\frac{1}{2}$

A)
$$\frac{1}{25}$$
 (B) $\frac{24}{25}$ (C) $\frac{2}{25}$ (D) $\frac{3}{25}$

11. A, B, C are three sets of values of x: A: 2,3,7,1,3,2,3 B: 7,5,9,12,5,3,8 C: 4,4,11,7,2,3,4 Select the correct statement among the following: (A) Mean of A is equal to Mode of C.

(B) Mean of C is equal to Median of B.

- (C) Median of B is equal to Mode of A.
- (D) Mean, Median and Mode of A are same.
- 12. Standard deviation for the following distribution is
- Size of item: 6 7 8 9 10 11 12 Frequency: 3 6 9 13 8 5 4 (A) 1.607 (B) 9.0 (C) 5.0 (D) 1.88
- 13. If $A = \begin{bmatrix} \cos \alpha & \sin \alpha \\ -\sin \alpha & \cos \alpha \end{bmatrix}$, then for any positive integer n, A^n is
 - (A) $\begin{bmatrix} \sin n\alpha & \cos n \alpha \\ \cos n\alpha & -\sin n\alpha \end{bmatrix}$

 - $(B) \begin{bmatrix} \cos n\alpha & \sin n\alpha \\ \sin n\alpha & \cos n\alpha \end{bmatrix}$
 - $(C) \begin{bmatrix} \cos n\alpha \\ \sin n\alpha \end{bmatrix}$ sin nα -cos nα
 - $(D) \begin{bmatrix} \cos n\alpha & \sin n\alpha \\ -\sin n\alpha & \cos n\alpha \end{bmatrix}$

14. Roots of equation $ax^2 - 2bx + c = 0$ are *n* and *m*, then the value of $\frac{b}{an^2+c} + \frac{b}{am^2+c}$ is

(A)
$$\frac{c}{a}$$
 (B) $\frac{b}{a}$ (C) $\frac{a}{c}$ (d)
The number of values of k for which the l

- 15. The number of values of k for which the linear equations
 - 4x + ky + z = 0

$$kx + 4y + z = 0$$

$$2x + 2y + z = 0$$

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(A) $\frac{n\vec{a}+m\vec{b}}{m+n}$ (B) $\frac{n\vec{a}+m\vec{b}}{m-n}$	(C) tanA+cotA (D) secA+cosecA
(C) $\frac{\vec{n} - m\vec{b}}{\vec{n} - m\vec{b}}$ (D) None of these	45. Angle of elevation of the top of the tower from 3 points (collinear) A, B and C on a road leading to the
35. If $\vec{a}, \vec{b}, \vec{c}$ are three non-zero vectors with no two of	foot of the tower are 30° , 45° and 60° , respectively.
which are collinear, $\vec{a} + 2\vec{b}$ is collinear with \vec{c} and	The ratio of AB and BC is (A) $\sqrt{2}$: 1 (B) $\sqrt{2}$: 2
$\vec{b} + 3\vec{c}$ is collinear with \vec{a} , then $ \vec{a} + 2\vec{b} + 6\vec{c} $ will	(A) $\sqrt{3}$: 1 (B) $\sqrt{3}$: 2 (C) 1 : 2 (D) 2: $\sqrt{3}$
be equal to	46. The area enclosed between the curves $y^2 = x$ and
(A) Zero (B) 9 (C) 1 (D) None of the above	y = x is
36. Vertices of the vectors $i - 2i + 2k$, $2i + j - k$ and	(A) 2/3 sq. unit (B) 1 sq. unit
3i - j + 2k form a triangle. This triangle is	(C) 1/6 sq. unit (D) 1/3 sq. unit 47 Test the continuity of the function at $x = 2$
(A) Equilateral triangle	47. Test the continuity of the function at $x = 2$
(B) Right angle triangle	$\left \frac{3}{2}-x, x<2\right $
(D) None of the above	$f(x) = \begin{cases} -1, & x = 2 \end{cases}$
37. If the volume of a parallelepiped whose adjacent	$x - \frac{3}{2}, x > 2$
edges are	
$\tilde{a} = 2i + 3j + 4k,$	(A) Continuous at $x=2$ (B) Discontinuous at $x=2$
$b = i + \alpha j + 2k,$ $\vec{c} = i + 2i + \alpha k$	(C) Semicontinuous at x=2
is 15, then $\alpha =$	(D) None of the above
(A) 1 (B) 5/2 (C) 9/2 (D) 0	48. The value of $2 \tan^{-1} \left(\tan^{-1} u \right)$ $\tan \left(\arctan^{-1} u \right)$
38. Solve the equation $\sin^2 x - \sin x - 2 = 0$ for x on	$2 \tan \left[\frac{\cos ec}{\tan x} - \tan(\cot x) \right] $ is (A) $\tan x$ (B) $\cot x$
the interval $0 \le x < 2\pi$:	(C) $\tan^{-1} x$ (D) $\csc^{-1} x$
(A) $x = -\frac{\pi}{2}$ only (B) $x = \frac{\pi}{4}$ and $\frac{2\pi}{7}$	49. If $3\sin x + 4\cos x = 5$, then $6\tan \frac{x}{2} - 9\tan^2 \frac{x}{2} =$
(C) $x = \frac{2\pi}{3}$ and $\frac{2\pi}{5}$ (D) None of these	(A) 1 (B) 3 (C) 4 (D) 6
39. If $\frac{\tan x}{2} = \frac{\tan y}{3} = \frac{\tan z}{5}$ and $x + y + z = \pi$, then the	50. If A is a subset of B and B is a subset of C, then
value of $\tan^2 x + \tan^2 y + \tan^2 z$ is	cardinality of AU B U C is equal to (A) Cardinality of C (B) Cardinality of B
(A) 38/3 (B) 38 (C) 114 (D) Norma States	(C) Cardinality of A (D) None of the above
40. Find the value of $\sin 12^{\circ} \sin 48^{\circ} \sin 54^{\circ}$:	Logical Reasoning and Aptitude
(A) $1/8$ (B) $1/6$ (C) $1/2$ (D) $1/4$	51. A set of consecutive positive integers beginning with
41. If $\cos x = \tan y$, $\cot y = \tan z$ and $\cot z = \tan x$,	1 is written on the blackboard. A student came along
then $\sin x =:$	and erased one number. The average of the remaining $\frac{7}{7}$
(A) $\frac{\sqrt{5-1}}{2}$ (B) $\frac{\sqrt{5+1}}{2}$	numbers is $35\frac{1}{15}$. What was the number erased?
(C) $\frac{\sqrt{5}+1}{4}$ (D) $\frac{\sqrt{5}-1}{4}$	(A) 7 (B) 8 (C) 9 (D) None of the above
42. The value of $\tan\left(45 + \frac{\theta}{2}\right)$ is	52. Four friends A, B, C and D need to cross a bridge in
(A) $\tan \theta - \sec \theta$ (B) $\tan \theta + \sec \theta$	the night. A maximum of 2 people can cross at a
(C) $\cot \theta - \sec \theta$ (D) $\cot \theta + \sec \theta$	time. They have only one lamp. A takes one minute
43. The value of $\sin 10^{\circ} \sin 50^{\circ} \sin 70^{\circ}$ is :	to cross the bridge. B takes 2 minutes, C takes 8 minutes and D takes 11 minutes to cross the bridge
(A) $1/4$ (B) $1/2$ (C) $3/4$ (D) $1/8$	respectively. A pair must walk together at the speed
44. The expression $\frac{1}{1-\cot A} + \frac{1}{1-\tan A}$ can be written as	of the person who walks slowly. What is the
(A) SINACOSA+1 (B) SecAcosecA+1	minimum time required to cross the bridge by all the

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	four people?			• B and H bel
	(A) 23 minutes	(B) 20 minutes		to E
	(C) 18 minutes	(D) 16 minutes		Who are the memb
53.	In a city, 40.1% of the ad	dults are illiterate while		(A) A, D, F and E
	85.1% of the children are li	terate. If the ratio of the		(C) B, D, H and G
	adults to that of the children	is 2:3, then what percent	61.	Eight friends A
	of the population is literate?	-		circular table, play
	(A) 20%	(B) 25%		to two different te
	(C) 50%	(D) 75%		the same team sit is
54.	A runs $1\frac{2}{3}$ times as fast as	B. If A gives B a start of		• A sits neith
	80m, how far must the winn	ing post be so that A and		sitting in betw
	B might reach it at the same	time?		• B sits neith
	(A) 200 m	(B) 400 m		sitting in betw
	(C) 300 m	(D) 160 m		• B and H bel
55.	A person's present age is tw	vo fifth of the age of his		to E
	mother. After 8 years, he w	ill be one-half of the age		Who are sitting adj
	of his mother. What is the pr	resent age of his mother?		(A) B and H
	(A) 60 years	(B) 50 years	60	(C) H and G
	(C) 40 years	(D) 30 years	62.	Four students A, I
56.	. Mr. Kumar drives to work	at an average speed of 48		among themselve
	Km/hr. The time taken to c	over the first 60% of the		number of marble
	distance is 10 minutes mor	e than the time taken to		marbles. No studer
	cover the remaining distance	e. How far is his office?		got odd number
	(A) 30 Kms	(B) 40 Kms		number of marble
	(C) 45 Kms	(D) 48 Kms		got more marbles
57.	Two pipes A and B can	fill the cistern in 37.5		D.
	minutes and 45 minutes res	pectively. Both pipes are		What is the numbe
	opened. The cistern will be	filled in just half an hour,		(A) 6 (B) 7
	if the B is turned off after:		63.	Four students A, I
	(A) 5 minutes	(B) 9 minutes		among themselve
	(C) 10 minutes	(D) 15 minutes		number of marble
58.	In a certain code, DOES is v	vritten as 5\$3% and SITE		marbles. No studer
	is written as %4#3. How	is EDIT written in that		got odd number
	code?			number of marble
	(A) 3#4\$	(B) %3#5		got more marbles
	(C) 354#	(D) 4#5\$		D.
59.	In a shower, 5 cm of rain fa	lls. The volume of water		Mean of number of
	that falls on 1.5 hectares of s	ground is:		(A) 6
	(A) 75 cubic meter	(B) 750 cubic meter		(C) 8
	(C) 7500 cubic meter	(D) 75000 cubic meter	64.	Nine individuals -
60.	Eight friends A through	H, are sitting around a		the only candida
	circular table, playing a gar	ne of cards. They belong		committees—K1,
	to two different teams X ar	nd Y. No two persons of		should serve on
	the same team sit in adjacent	t seats.		Committee K1 sho
	• A sits neither oppos	ite to D nor to H but is		more than commit
	sitting in between C and	1 G.		no members in co
	2			

• B sits neither opposite to A nor to G but is sitting in between F and D

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H belong to team X and D sits opposite

nembers of team X?

(A) A, D, F and E	(B) B, H, C and E
(C) B, D, H and G	(D) B, H, C and G

A through H, are sitting around a playing a game of cards. They belong ent teams X and Y. No two persons of n sit in adjacent seats.

> neither opposite to D nor to H but is between C and G.

neither opposite to A nor to G but is between F and D

H belong to team X and D sits opposite

ng adjacent to E?

and H	(B) B and G
and G	(D) H and C

A, B, C and D distributed 30 marbles selves. No two students got equal narbles. No student got more than 10 student got less than 5 marbles. A and C nber of marbles. B and D got even arbles. A got more marbles than B, C rbles than D, B got more marbles than

umber of marbles with A?

(D) 9

A, B, C and D distributed 30 marbles selves. No two students got equal narbles. No student got more than 10 student got less than 5 marbles. A and C nber of marbles. B and D got even arbles. A got more marbles than B, C rbles than D, B got more marbles than

(C) 8

ber of marbles with B, C, D is:

- **(B)** 7
 - (D) None of the above
- als Z, Y, X, W, V, U, T, S and R are indidates, who can serve on three -K1, K2 and K3, and each candidate on exactly one of the committees. 1 should consist of exactly one member mmittee K2. It is possible that there are in committee K3. Among Z, Y and X none can serve on committee K1. Among W, V and U none can serve on committee K2. Among T, S and

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- 76. Sum of ages of Anu and Bhanu is 10 years more than sum of ages of Bhanu, Chanu and Dhanu. Average age of Chanu and Dhanu is 19 years. Find the average age of Anu and Dhanu if Dhanu is 10 years elder than Chanu.
 - (A) 36 years(C) 25 years
 - (B) 30 years (D) 31 years
- 77. In a competitive examination in Maharashtra state 9% candidates got selected from the total appeared candidates. Tripura state had an equal number of candidates appeared and 12% candidates got selected with 102 more candidates got selected than Maharashtra state. What was the number of candidates appeared from each state?

(A) 3400(B) 3000(C) 2850(D) 3200

78. Shiva gave 40% of his monthly salary to his mother from the remaining he used 7% for electronic gadgets and 23% he kept aside for his monthly expenses. The remaining amount he transferred to his friend's account. The sum of the amount he gave to his mother and he transferred to his friend account was 41000. What was Shiva's monthly salary?

(A) 50500 (C) 50000

(D) 45000

(B) 49000

- 79. Read the information given below and answer the questions that follow:
 - i. A * B means -> A and B are of the same age
 - ii. A B means -> B is younger than A
 - iii. A + B means -> A is younger than B
 - Sachin * Madan Reena means?
 - (A) Reena is youngest
 - (B) Reena is oldest
 - (C) Madan is younger than Reena
 - (D) Madan is the youngest
- 80. Read the information given below and answer the questions that follows
 - i. A * B means -> A and B are of the same age
 - ii. A B means -> B is younger than A
 - iii. A + B means -> A is younger than B
 - X + Y + Z is same as _____? (A) Y - X - Z (B) Z -
 - (A) Y X Z (B) Z Y X(C) Z - X - Y (D) X - Y - Z
- 81. Find out the wrong number in the following number series:

56, 58, 62, 70, 84, 118, 182	
(A) 58	(B) 62
(C) 84	(D) 118

82. . Find out the missing number:



(A) 2
(B) 6
(C) 4
(D) 16
83. In an examination, 78% of the total students who appeared were successful. If the total number of failures was 176 and 34% got first class, then how many students got first class?
(A) 272
(B) 112
(C) 210
(D) 254

84. Which number should come in place of the question mark (?) in the following chart:

1	7	9	
2	14	?	
3	105	117	
-(A) 1	6	$(\mathbf{B})'$	26

(D) 12

85. Find the missing number



(C) 20

- (A) 21 (B) 16 (C) 10 (D) 8
 86. How many minimum numbers of colours will be required to paint all the sides of a cube without the adjacent sides having the same colours?
 - (A) 3 (B) 4 (C) 5 (D) 6
- 87. If a man walks at the rate of 4 km/hr, he misses a train by only 6 minutes. However, if he walks at the rate of 5 km/hr, he reaches the station 6 minutes before the arrival of the train. The distance covered by him to reach the station is:
 - (A) 4 km (B) 7 km (C) 9 km (D) 5 km
- 88. If the numerator of a fraction is increased by 25% and denominator decreased by 20%, the new value is 5/4. What is the original value?
 - (A) 3/5 (B) 4/5
 - (C) 7/8 (D) 3/7

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89. Read the following information carefully and answer the questions given below:

i. Five friends Amar, Kapil, Sarvesh, Rohan and

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Nagesh put on five shirts of different colours, i.e., Red, Yellow, Blue, White, and Green, while they were going to attend a party. These colours are not in the order.

ii. They have different hobbies as reading, playing, outing, singing and writing.

iii. Kapil, who likes singing, does not wear Yellow shirt. Sarvesh wears Red shirt and he does not like reading or writing. Nagesh likes playing and he does not wear Blue or Yellow shirt. Amar likes writing and Rohan does not wear Yellow or Green shirt.

What is the colour of Kapil's shirt?

(A) White (B) Green

(D) Insufficient data to answer (C) Blue

90. Read the following information carefully and answer the questions given below:

> i. Five friends Amar, Kapil, Sarvesh, Rohan and Nagesh put on five shirts of different colours, i.e., Red, Yellow, Blue, White, and Green, while they were going to attend a party. These colours are not in the order.

ii. They have different hobbies as reading, playing, outing, singing and writing.

iii. Kapil, who likes singing, does not wear Yellow shirt. Sarvesh wears Red shirt and he does not like reading or writing. Nagesh likes playing and he does not wear Blue or Yellow shirt. Amar likes writing and Rohan does not wear Yellow or Green shirt.

Who likes writing?

(A) Rohan

(C) x + y'

(C) Kapil

(D) Insufficient data to answer

Computer Awareness

(B) Amar

- 91. Assume x' represents negation of x the Boolean function x'y' + xy + x'y is equivalent to?
 - (B) x + y(A) x' + y
 - (D) x' + y'
- 92. The memory unit which directly communicates with the CPU is known as
 - (A) Primary Memory (B) Secondary Memory
 - (C) Shared Memory (D) Auxiliary Memory
- 93. Dynamic RAM consumes...... Power andthan Static RAM
 - (B) More, Slower (A) More, Faster
 - (C) Less, Slower (D) Less, Faster
- 94. The binary equivalent of $(234.125)_{10}$?

(A) (11101010.101)₂ (B) $(10101010.011)_2$ (C) (11101010.001)₂ (D) (10101110.011)₂

- 95. Determine the octal equivalent of $(432267)_{10}$? (A) (432267)₈ (C) (2164432)₈
 - (B) (346731)₈ (D) None of the above
- 96. One Exabyte is equal to ...
 - (A) 10^{18} Bytes
 - (B) 1 Zetta Bytes divided (/) by one thousand
 - (C) 1 Peta Bytes multiplied (×) by one thousand
 - (D) All of the above
- 97. Consider the following circuit.

How many minimum numbers of two input NAND gates are required to design the above circuit?



- 98. The time required for fetching and execution of one simple machine instruction is known as
 - (A) Delay time (B) CPU cycle
 - (C) Real Time (D) Seek Time
- 99. The equivalence of given expression x + x'y with Boolean theorem is....
 - (A) *x* (B) x + y
 - (C) x' (D) 0
- 100. The logic XOR operation of $(4AC0)_{16}$ and $(B53F)_{16}$ results
 - (A) AACB (B) 0000 (D) ABCD (C) FFFF

General English

- 101. Choose the correct expression of approval: (A) Super! (B) Rotten!
 - (C) Damn! (D) Hell!
- 102. Which of the following is a Noun? (A) Carelessness (B) Careless
 - (C) Carelessly (D) Caring
- 103. Choose the word that accurately signifies a student who avoids attending classes.
 - (A) Diligent (B) Callous
 - (C) Morose (D) Truant
- 104. Identify the type of error in the following sentence: Some of the books, were destroyed. (A) Syntactical error (B) Punctuation error
 - (C) Grammatical error (D) Conflicting error
- 105. Pick the word similar in meaning: ALLEVIATE (A) Clear (B) Lessen

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	$(\mathbf{O}) \mathbf{M} + 1$	
	(C) Match	(D) Incite
106.	Pick the word opposite in r	meaning: ABSURD
	(A) Cruel	(B) Sensible
	(C) Calm	(D) Sturdy
107.	Identify the meaning of the	e following:
	It was all Greek to me	
	(A) Difficult to speak	
	(B) Difficult to write	
	(C) Difficult to arrange	
	(D) Difficult to understand	
108.	"To Vouch for" means	
	(A) To confirm	(B) To degrade
	(C) To follow	(D) To supersede
109	"To hold your horses" me	ans
107.	(Λ) To be ready	(B) To be nationt
	(A) To be ready	(D) To be junctiont
110	(C) 10 De eager	(D) To be impatient
110.	Disse the right option.	9
	A) Secret line and l	!
	(A) Something good	
	(B) Something unrecognise	ed
	(C) Something known to a	
	(D) Something good but no	ot recognised at first
111.	He was accused thef	t.
	(A) on (B) abo	out
	(C) in (D) of	
112.	I never listen the radi	0.
	(A) to (B) of	
	(C) about (D) in	
113.	I don't think I've ever	.on that sofa.
	(A) been sitting (B) sat	
	(C) sit (D) sitt	ing
114.	Name the letter that is s	sent along with the CV
	(Curriculum Vitae).	
	(A) Formal letter	(B) Covering letter
	(C) Introductory letter	(D) Business letter
115.	What is not included in a r	esume'?
	(A) Work experience	(B) Education
	(C) Projects	(D) Family history
116.	Choose the correct sentence	e of the following:
	(A) I prefer coffee to tea.	-
	(B) I prefer coffee for tea.	
	(C) I prefer coffee than tea	•
	(D) I prefer coffee by tea.	
117.	Read the following part	ssage and answer the
	questions.	
	A Lichen is a composite of	rganism that arises from
	algae living among filame	nts of multiple fungi in a
	symbiotic relationship T	he combined lichen has
	symototic relationship. If	ne comonica nenen nas

properties different from those of its component organisms. Lichens come in many colours, sizes, and forms. The properties are sometimes plant like, but lichens are not plants. Lichens may have tiny leafless branches, flat leaflike structures or flakes that lie on the surface like peeling paint or other growth forms.

Lichens occur from sea level to high alpine elevations, in many environmental conditions and can grow on almost any surface. Different kinds of lichens have adopted to survive in some of the most extreme environment on earth such as Arctic, Tundra, hot dry deserts, rocky coasts, and toxic slag heaps. They can even live inside solid rocks, growing between the grains.

It is estimated that 6% of the earth's land surface is covered by lichens. Some of them are considered to be the oldest living things. They are among the first living things to grow on fresh rock exposed after an event such as a land slide. The long-life span and slow but regular growth rate of some lichens can be used to date events.

Question: The passage states all the following about Lichens EXCEPT:

(A) Lichen is an independent plant.

(B) Lichens have different properties.

(C) Lichens can grow in exotic conditions.

(D) Lichens can be used to date events.

118. Read the following passage and answer the questions:

A Lichen is a composite organism that arises from algae living among filaments of multiple fungi in a symbiotic relationship. The combined lichen has properties different from those of its component organisms. Lichens come in many colours, sizes, and forms. The properties are sometimes plant like, but lichens are not plants. Lichens may have tiny leafless branches, flat leaf like structures or flakes that lie on the surface like peeling paint or other growth forms.

Lichens occur from sea level to high alpine elevations, in many environmental conditions and can grow on almost any surface. Different kinds of lichens have adopted to survive in some of the most extreme environment on earth such as Arctic, Tundra, hot dry deserts, rocky coasts, and toxic slag heaps. They can even live inside solid rocks, growing between the grains.

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It is estimated that 6% of the earth's land surface is covered by lichens. Some of them are considered to be the oldest living things. They are among the first living things to grow on fresh rock exposed after an event such as a land slide. The long-life span and slow but regular growth rate of some lichens can be used to date events.

Question: The passage aims at the view......

(A) that Lichens are toxic in nature.

(B) that sharing of things help easy growth.

(C) that Lichens should be excluded from Botany.

(D) how plants use solar energy.

119. Read the following passage and answer the questions:

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It is estimated that 6% of the earth's land surface is covered by lichens. Some of them are considered to be the oldest living things. They are among the first living things to grow on fresh rock exposed after an event such as a land slide. The long-life span and slow but regular growth rate of some lichens can be used to date events.

Question: Choose the one which best expresses the meaning of the word FLAKES:

(A) Peeling(C) Loaf

(B) Pip

(D) Whole

120. Read the following passage and answer the questions:

A Lichen is a composite organism that arises from algae living among filaments of multiple fungi in a symbiotic relationship. The combined lichen has properties different from those of its component organisms. Lichens come in many colours, sizes, and forms. The properties are sometimes plant like, but lichens are not plants. Lichens may have tiny leafless branches, flat leaf like structures or flakes that lie on the surface like peeling paint or other growth forms.

Lichens occur from sea level to high alpine elevations, in many environmental conditions and can grow on almost any surface. Different kinds of lichens have adopted to survive in some of the most extreme environment on earth such as Arctic, Tundra, hot dry deserts, rocky coasts, and toxic slag heaps. They can even live inside solid rocks, growing between the grains.

It is estimated that 6% of the earth's land surface is covered by lichens. Some of them are considered to be the oldest living things. They are among the first living things to grow on fresh rock exposed after an event such as a land slide. The long-life span and slow but regular growth rate of some lichens can be used to date events.

Question: Identify the one word opposite to SPAN in meaning:

(A) Stretch(C) Duration

(B) Length(D) Compress

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11.D	12.A	13.D	14.D	15.A	16.C	17.C	18.B	19.A	20.C
21.B	22.A	23.D	24.A	25.A	26.C	27.A	28.B	29.D	30.D
31.C	32.A	33.C	34.A	35.A	36.B	37.C	38.D	39.A	40.A
41.A	42.B	43.D	44.B	45.A	46.C	47.B	48.C	49.A	50.A
51.A	52.C	53.D	54.A	55.C	56.B	57.B	58.C	59.B	60.D
61.D	62.D	63.B	64.B	65.C	66.D	67.C	68.A	69.C	70.C
71.A	72.A	73.B	74.B	75.C	76.A	77.A	78.C	79.A	80.B
81.C	82.C	83.A	84.D	85.B	86.A	87.A	88.B	89.D	90.B
91.A	92.A	93.C	94.C	95.D	96.D	97.B	98.B	99.B	100.C
101.A	102.A	103.D	104.B	105.B	106.B	107.D	108.A	109.B	110.D
111.D	112.A	113.B	114.B	115.D	116.A	117.A	118.B	119.A	120.D

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