Services Preparatory Institute (SPI) Entrance Exam 2021 Sample Question Paper By Disha Foundation

Question Paper No: SPI210005033	Students Roll Number	Exam Center : Pune
Total Questions: 150	Maximum Marks: 150	Time Duration: 150 Min
		Test Booklet Series
www.SPIClasses.com	INSTRUCTIONS	

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.

2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.

3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. Do NOT write anything else on the Test Booklet.

4. This Test Booklet contains 150 items (Questions). Each item is printed in English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose ONLY ONE response for each item.

5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See direction in the answers sheet.

6. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the answer sheet. For every incorrect response half of the allotted marks will be deducted.

7. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.

8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator both answer sheet and Question Paper. You are Not permitted to take away with you the Test Booklet.

9. Sheet for rough work are appended in the Test Booklet at the end..

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

1. The product o irrational num	f a rational and Iber is	5. In the given figu The value of x is	re ΔABC ~ ΔPQR.
(a) Rational (c) both of above	(b) irrational (d) none of above	6 cm B 4 cm C	R x Q H L L C C C C C C C C C C C C C C C C C
 2. The pair of eq x = 5 has (a) no solution (b) unique/one solutions (c) two solutions (d) infinitely many solutions 	uations x = 0 and ution solutions	(a) 2.5 cm (b) (c) 2.75 cm (d)	3.5 cm 3 cm
3. The number of p zeroes as -2 and 5 i	oolynomials having s	6. First four terms o a _n = 2n + 3 are	of the sequence
(a) 1	(b) 2	(a) 3, 5, 7, 9	(b) 5, 7, 9, 11
(c) 3	(d) more than 3	(c) 5 <i>,</i> 8, 11, 14	(d) 1, 3, 5, 7
4. The quadratic ec	quation has degree	7. The distance bet P(1, 4) and Q(4, 0)	ween the point is
(a) 0	(b) 1	(a) 4	(b) 5
(c) 2	(d) 3	(c) 6	(d) 3√3

8. If x and y are com angles, then	plementary	12. The area of the ci diameter is 21 cm is	rcle whose
(a) sin x = sin y	(b) tan x = tan y	(a) 346.5 cm ²	(b) 37.68 cm ²
(c) cos x = cos y	(d) sec x = cosec y	(c) 18.84 cm ²	(d) 19.84 cm²
9. In figure given AE the value of CE is	BCD is a rectangle,	13. A solid formed or angled triangle abou	n revolving a right t its height is
(a) 1 cm (b) 2 cm ∞ (c) 3 cm (d) 4 cm	12 cm	(a) cylinder (c) right circular cone	(b) sphere (d) two cones
10. The distance be tangents of a circle	tween two parallel of radius 4 cm is	14. Construction of a frequency table is us determining the	cumulative eful in
10. The distance bet tangents of a circle	tween two parallel of radius 4 cm is	 14. Construction of a frequency table is us determining the (a) mean 	cumulative eful in (b) median
10. The distance be tangents of a circle of (a) 2 cm (c) 6 cm	tween two parallel of radius 4 cm is (b) 4 cm (d) 8 cm	 14. Construction of a frequency table is us determining the (a) mean (c) mode 	cumulative eful in (b) median (d) none of these
 10. The distance bet tangents of a circle of	tween two parallel of radius 4 cm is (b) 4 cm (d) 8 cm segment PQ in the ray PX is drawn so ute angle and then points are marked	 14. Construction of a frequency table is us determining the (a) mean (c) mode 15. The probability o one head in tossing a 	cumulative eful in (b) median (d) none of these f getting exactly a pair of coins is
 10. The distance bettangents of a circle of	tween two parallel of radius 4 cm is (b) 4 cm (d) 8 cm segment PQ in the ray PX is drawn so ute angle and then points are marked that the minimum ese points is	 14. Construction of a frequency table is us determining the (a) mean (c) mode 15. The probability o one head in tossing a (a) 0 	cumulative eful in (b) median (d) none of these f getting exactly pair of coins is (b) 1
 10. The distance bet tangents of a circle of the constant of	tween two parallel of radius 4 cm is (b) 4 cm (d) 8 cm segment PQ in the ray PX is drawn so ute angle and then points are marked that the minimum ese points is (b) 7	 14. Construction of a frequency table is us determining the (a) mean (c) mode 15. The probability o one head in tossing a (a) 0 (c) 1/3 	cumulative eful in (b) median (d) none of these f getting exactly pair of coins is (b) 1 (d)1/2

Disha Foundations Useful Notes For SPI Exam Preparation



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16. The sum of two irrati is always	ional numbers	20.if a, b, c are in AP then (a) b = a + c (b) 2b = a + c
(c) rational or irrational	(d) one	(c) $b^2 = a + c$ (d) $2b^2 = a + c$
17. The graph of y = 5 is parallel to the	s a line	21. If $\triangle ABC$ is similar to $\triangle DEF$ such that 2 AB = DE and BC = 8 cm then EF is equal to.
(a) x-axis (b) y (c) both axis (d) r	/-axis none of these	(a) 12 cm (b) 4 cm (c) 16 cm (d) 8 cm
18. If the lines given by 2 3x – 5y = 7 are parallel, t of k is	2x + ky = 1 and hen the value	22. The points (2, 5), (4, - 1) and (6, -7) are vertices of an/a
(a) $\frac{-10}{3}$ (c) - 13 (a)	(b) $\frac{10}{3}$ (d) - 7	(a) isosceles triangle(b) equilateral triangle(c) right-angled triangle(d) none of these
19. The cubic equation h	as degree	23. Ratios of sides of a right triangle with respect to its acute angles are known as
(a) 1 (l (c) 3 (d	o) 2 d) 4	 (a) trigonometric identities (b) trigonometry (c) trigonometric ratios of the angles (d) none of these

24. In figure given All the value of CE is	BCD is a rectangle,	28. The total surface hemispherical solid cm is	e area of a having radius 7
(a) 1 cm (b) 2 cm	680	(a) 462 cm ²	(b) 294 cm ²
(d) 4 cm	12 cm	(c) 588 cm ²	(d) 154 cm ²
25. In given figure, C tangents to a circle w is another tangent to at R. If CP = 11 cm ar	CP and CQ are with centre O. ARB buching the circle ad BC = 6 cm then	29. One of the meth determining mode is	ods for s
the length of BR is		(a) Mode = 2 Medi	an -3 Mean
(a) 6 cm (b) 5 cm	PA	(b) Mode = 3 Mediar	n – 2 Mean
(c) 4 cm (d) 3 cm	R > C	(c) Mode = 2 Mean –	- 3 Median
-	v v	(d) Mode = 3 Mean -	- 2 Median
26. When a line seg the ratio 2 : 3, how n divided into?	ment is divided in nany parts is it	30. the total events dice simultaneously	to throw three is
(a) 2/3	(b) 2	(a) 6	(b) 18
(c) 3	(d) 5	(c) 81	(d) 216
27. The area of the o diameter is 21 cm is	circle whose	31. The set A = {0,1, represents the set o	2, 3, 4,} f
(a) 346.5 cm ²	(b) 37.68 cm²	(a) whole numbers (b) integers	
(c) 18.84 cm ²	(d) 19.84 cm ²	(c) natural numbers (d) even numbers	



Our Results:

	Year 2021	
Sr. No	Exam Name	Total Selection
1	UPSC NDA	183 In NDA-1-2021 In Written Exam
2	SPI Aurangabad	32 In Written Exam(Highest In Maharashtra in 2021)
3	AISSEE: Sainik School Exam	52 Final Selectins in 17 Sainik Schools Across India.
4	RIMC Deharadoon	1 Selected
5	Rashtriya Military School	7 Selected

	Year 2020	
Sr. No	Exam Name UPSC NDA	Total Selection 392 In NDA-1&2-2021 In Written Exam
2	SPI Aurangabad	3 Selected
3	AISSEE:Sainik School Exam	28 Final Selectins in 14 Sainik Schools Across India.
4	RIMC Deharadoon	0 Selected
5	Rashtriya Military School	0 Selected

	Year 2019	
Sr. No	Exam Name	Total Selection
l.	UPSCNDA	No Classes Were Conducted For NDA
2	SPIAurangabad	No Classes Were Conducted For SPI
3	AISSEE: Sainik School Exam	6 Final Selectins in 4 Sainik Schools Across India.
4	RIMC Deharadoon	0 Selected
5	Rashtriya Military School	0 Selected

37. The coordinates of the point which is equidistant from the three vertices of the ΔAOB as shown in the figure is	40. A tangent is drawn from a point at a distance of 17 cm of circle C(0, r) of radius 8 cm. The length of its tangent is		
A (0, 2y)	(a) 5 cm (b) 9 cm (c) 15 cm (d) 23 cm		
$\begin{array}{c c} X' \leftarrow & & B(2x, 0) \\ & & & Y' \\ \hline (a) & (x, y) & (b) & (y, x) \\ (c) & \left(\frac{x}{2}, \frac{y}{2}\right) & (d) & \left(\frac{y}{2}, \frac{x}{2}\right) \end{array}$	41. To draw a pair of tangents to a circle which are inclined to each other at an angle of 35°, it is required to draw tangents at the end-points of those two radii of the circle, the angle between which is		
(a)	(a) 145° (b) 130° (c) 135° (d) 90°		
38. The value of sin ² 5° + sin ² 10° + sin ² 15° + + sin ² 90° is equal to	42. The length of the minute hand of a clock is 14 cm. The area swept by the minute hand in 5 minutes is		
(a) 8 (b) 8.5	(a) 153.9 cm ² (b) 102.6 cm ²		
(c) 9 (d) 9.5	(c) 51.3 cm ² (d) 205.2 cm ²		
39. In given figure, ABCD is a gm. The length of AP is (a) 2 cm (b) 4 cm	43. A cylinder and a cone are of same base radius and of same height. The ratio of the volume of the cylinder to that of the cone is		
(c) 6 cm (d) 8 cm P = 10 cm	(a) 2:1 (b) 3:1		
(0) 0 0 m	(c) 2 : 3 (d) 3 : 2		

44. The algebraic sum of the deviations of a frequency distribution from its mean is always,		48. The graph of x = -2 is a line parallel to the		
 (a) greater than zero (b) less than zero (c) zero (d) a non-zero number 		(a) x-axis (b) y-axis (c) both (d) none	s <mark>s</mark> x- and y-axis e of these	
45. A girl calculates the probability of her wind prize in a lottery is 8/1 tickets are sold, how n	at the ning the first .00. If 6,000 nany tickets has	49. The v	value of $\sqrt{6}$ +	$\sqrt{6 + \sqrt{6 + \sqrt{6 + \sqrt{6 + \sqrt{6}}}}}$
she bought? (a) 400 (b) 750	,	(A) 3.5		(B) 4
<mark>(c) 480</mark> (d) 240		(C) 3		(D) – 3
46. Which number is o	divisible by 11?	50. The series a,	sum of first r 3a, 5a,	n terms of the . Is
(a) 1516	(b) 1452	(a) Na		(h)(2n-1)
(c) 1011	(d) 1121	(a) in a		(b) $(211 - 1) a$
		(C) II a		(u) II a
47. A quadratic polyno zeros are -4 and -5, is	omial, whose	51. In th PM is m 289 cm ²	e given figur edian of ΔPC , BC = 17 cm	re ΔΑΒC ~ ΔΡQR, QR. If ar ΔΑΒC = , MR = 6.5 cm
(a) $x^2-9x+20$	(b) x ² + 9x + 20	then the	e area of ΔPC $O \text{ cm}^2$	QM is
(c) x ² -9x- 20	(d) x ² + 9x- 20	(b) 13 cr (c) 84.5 (d) 144.5	n^2 cm^2 $5 cm^2$ _B	

52. If P(I, 2), Q(4, 6), R(5, 7) and S(a, b) are the vertices of a parallelogram PQRS, then		56. he radii of two circles are 19 cm and 9 cm respectively. The radius of the circle which has circumference equal to the sum of the circumference		
(a) a = 2,b = A	(b) a = 3,b = 4	of two	circles is	
(c) a = 2, b = 3	(d) a = 3, b = 5	(a) 35	cm	(b) 10 cm
		(c) 21 c	m	(d) 28 cm
53. sin (90° – A) =		57. The cm3. It	e volume of a s s diameter is	phere is 4851
(a) sin A	(b) tan A	(a) 3.5 (ст	(b) 7 cm
(c) cos A	(d) cosec A	(c) 14 c	m	(d) 21 cm
54.The tops of two pol m and 14 m are conne If the wire makes an a horizontal, the length	es of height 20 cted by a wire. ngle of 30° with of the wire is	58. Mo	de is the dle most frequ	ent value
(a) 6 m (c) 12 m	(b) 10 m (d) 20 m	(b) leas (c) max (d) non	t frequent valu imum frequent e of these	e t value
55. In given figure, tangents to a circle wir is another tangent too at R. If CP = 11 cm and the length of BR is	CP and CQ are th centre O. ARB uching the circle BC = 6 cm then	59. A ca shuffle probab	ard is drawn fro d deck of 52 ca ility of a seven	om a well rds. The of spade is
(a) 6 cm (b) 5 cm (c) 4 cm (d) 3 cm	$O \bullet $ B C C	(a) $\frac{1}{26}$	(b) $\frac{1}{52}$	(c) $\frac{3}{52}$ (d) $\frac{1}{13}$
	-	(~)		

SPI INTERVIEW PROGRAM 2022

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60. LCM of the given number 'x' and 'y' where y is a multiple of 'x' is given by	64. If the ratio of the perimeters of two similar triangles is 4 : 25, then the ratio of the areas of the similar triangles is
(a) X (b) y (c) Xy (d) x/y	(a) 16:625 (b) 2:5 (c) 5:2 (d) 625:16
61. The zeroes of the quadratic polynomial $x^2 + px + p$, $p \neq 0$ are	65. The area (in square units) of the triangle formed by the points A(a, 0), O(0, 0) and B(0, b) is
 (a) both equal (b) both cannot be positive (c) both unequal (d) both cannot be negative 	(a) ab (b) $\frac{1}{2}ab$ (c) $\frac{1}{2}a^2b^2$ (d) $\frac{1}{2}b^2$
62.The graph of the equation 2x + 3y = 5 is a	66. If cosec A – cot A = 4/5, then cosec A =
 (a) vertical line (b) straight line (c) horizontal line (d) none of these 	(a) $\frac{47}{40}$ (b) $\frac{59}{40}$ (d) (c) $\frac{51}{40}$ (d) $\frac{41}{40}$
63. Bi-quadratic equation has degree (a) 1	67. In given figure, AD = 4 cm, BD = 3 cm and CB = 12 cm. The value of tan θ is (a) $\frac{5}{12}$
(b) 4 (c) 3 (d) 2	(b) $\frac{12}{13}$ (c) $\frac{5}{12}$ (d) $\frac{12}{5}$ (c)

68. The length of tangents drawn from an external point to the circle	72. Which of the following can not be determined graphically?
 (a) are equal (b) are not equal (c) sometimes are equal (d) are not defined 	 (a) Mean (b) Median (c) Mode (d) None of these
69. The area of the circle that can be inscribed in a square of side 6 cm, is	73. If one of the zeroes of the quadratic polynomial $(k - 1)x^2 + kx + 1$ the value of k is (a) $\frac{4}{2}$ (b) $\frac{-4}{2}$
(a) $18\pi \text{ cm}^2$ (b) $12\pi \text{ cm}^2$ (c) $9\pi \text{ cm}^2$ (d) $14\pi \text{ cm}^2$	(c) $\frac{2}{3}$ (d) $\frac{-2}{3}$ (c)
70. The curved surface area of glass having radii 3 cm and 4 cm respectively and slant height 10 cm is	74. Asha has only ₹1 and ₹2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is ₹75, then the
 70. The curved surface area of glass having radii 3 cm and 4 cm respectively and slant height 10 cm is (a) 55 cm² (b) 110 cm² 	74. Asha has only ₹1 and ₹2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is ₹75, then the number of ₹1 and ₹2 coins are, respectively
 70. The curved surface area of glass having radii 3 cm and 4 cm respectively and slant height 10 cm is (a) 55 cm² (b) 110 cm² (c) 220 cm² (d) 440 cm² 	 74. Asha has only ₹1 and ₹2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is ₹75, then the number of ₹1 and ₹2 coins are, respectively (a) 35 and 15 (b) 15 and 35
 70. The curved surface area of glass having radii 3 cm and 4 cm respectively and slant height 10 cm is (a) 55 cm² (b) 110 cm² (c) 220 cm² (d) 440 cm² 	 74. Asha has only ₹1 and ₹2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is ₹75, then the number of ₹1 and ₹2 coins are, respectively (a) 35 and 15 (b) 15 and 35 (c) 35 and 20 (d) 25 and 25

 76. Which of the following is the ultimate source of energy? (a) Water (b) Sun (c) Fossil fuels (d) Uranium 	 80. The Indira Gandhi Canal has brought greenery to considerable areas of (a) Gujarat (b) Rajasthan (c) Bihar (d) Madhya Pradesh
 77. Environment Day falls on (a) 28th February (b) 23rd March (c) 5th June (d) 16th August 	 81. Which of the two in the following sets belong to the same trophic level? (a) Grass; Grasshopper (b) Goat; Spider (c) Hawk ; Rat (d) Frog ; Lizard
 78. Which one of the following pairs belong to the category of primary consumers? (a) Eagle and snake (b) Grasshoppers & cattle (c) Snake and frog (d) Water beetles & fish 	82. The other name of potential difference is:A. AmphereageB. WattageC. VoltageD. Potential energy
 79. Which salt is Neutral salt? (A) NH4CI (B) CH3COONH4 (C) CH3COONa (D)Na2CO3 	 83. Spent slurry (Bio-waste after obtaining biogas) is used as (a) fuel (b) manure (c) food for livestock (d) used again for generating biogas

SPIENTRANCE EXAM Structure Of The Exam And Syllabus

SPI Entrance Exam	Part I	Part 2
Duration	150 Minutes For Both Parts (No Separate Time For Any One Part)	
Subjects	Mathematics	General AbilityTest
Number Of Questions	75 Questions	75 Questions
MarksTo Each Question	1 Mark For Right Answer and 0.5 negative mark for each Wrong Answers Total 75 Marks	1 Mark For Right Answer and 0.5 negative mark for each Wrong Answers Total 75 Marks
Question type	Objective MCQ	Objective MCQ
Subjects Included	Math's only	English, Science, Social Studies, Current Affairs, Mental Ability
Question Are Asked Based On	SSC and CBSE Boards	SSC and CBSE Boards
DifficultyLevel	Not So Tough	Not So Tough

Syllabus For SPIWritten Exam:

8th Std, 9th Std &10th Std State Board And CBSE Board Syllabus.

English, General Science, History, Geography, Mathematics.

Higher Weightage Is Given To 10th Std Syllabus.

And Current Affairs Are Asked Based on Recent News in Discussion.

84. Growing foetus derive nutrition from mother's blood through	88. At the time of Mendeleev, the number of elements known was
a. Uterus b. Fallopian tube	(a) 63 (b) 65
c. placenta d. cervix	(c) 62 (d) 64
85. Which of the following is the correct arrange-ment of the given metals in ascending order of their reactivity?	89. Pick out the chemically most reactive elements from the given triads.
Zinc, Iron, Magnesium, Sodium	Li, Na, K F, Cl, Br
(a) Zinc > Iron > Magnesium > Sodium	(a) Li and F
(b) Sodium > Magnesium > Iron > Zinc	(b) Li and Br
(c) Sodium > Zinc > Magnesium > Iron	(c) K and F
(d) Sodium > Magnesium > Zinc > Iron	(d) K and Br
86. Oxides of moderately reactive metals like Zinc, Iron, Nickel, Tin, Copper etc. are reduced by using	90. Name the neutral atom in the Periodic Table which has the same number of electrons as K+ and Cl
(a) Aluminium as reducing agent	(a) Helium
(b) Sodium as reducing agent	(b) Argon
(c) Carbon as reducing agent	(c) Neon
(d) Calcium as reducing agent	(d) Krypton
 87. Homologous organ have a. Same structure, same function b. Different structure, different function c. Same structure, different function d. different structure, same function 	 91. Which of the following oxide(s) of iron would be obtained on prolonged reaction of iron with steam? (a) FeO (b) Fe2O3 (c) Fe3O4 (d) Fe2O3 and Fe2O4

92. Who have a perfect pair of sex chromosomes?	96.Who wrote Sevasadan and when? (a) Bankim Chandra in 1865
a. Girls only b. Boys only c. Both girls and boys d. It depends on many other factors	(b) Sarat Chandra in 1888 (c) Premchand in 1916 (d) Bharatendu Harishchandra in 1882
93. In 1916, Gandhiji travelled to Champaran in Bihar to inspire the peasant to struggle against the:	97. Which of the following in not true about the Rowlatt Act?(a) It allowed the detention of
 (a) Upper caste people (b) Landless agriculture labourers (c) Oppressive plantation system (d) None of them 	 prisoners for five years without trial. (b) Gave the government powers to repress political activity (c) It passed the Act despite opposition from the Indian members in the Imperial Legislative Council. (d) Led to the launch of a movement under Gandhiji's leadership.
94. From the ideas and teaching of which of these leaders does BSP draw inspiration?	98. Laws concerning family matters such as marriage, divorce, adoption etc. are known as:
(a) Sahu Maharaj (b) Mahatma Phule and Ramaswami Naicker (c) Babasaheb Ambedkar (d) All the above	 (a) Family laws (b) Constitutional Laws (c) Criminal Laws (d) Civil Laws
 95. Which one of the following is not a cause of communalism? (a) Religion is taken as the basis of nation (b) When one religion is discriminated against other (c) State has no official religion (d) Demands of one religious group are formed in opposition to another 	 99. Which one of the following countries has multi-party system? (a) India (b) China (c) The United States of America (d) The United Kingdom

 100. Which one of the following European managing agencies did not control Indian industries? (a) Bird Heiglers and Company (b) Andrew Yule (c) Indian Industrial and Commerce Congress (d) Jardine Skinner and Company 	 103. Cultivation of coffee is confined to which of the following hills? (a) Nilgiri (b) Aravali (c) Shivalik (d) None of these
101.In which one of the following years did the first cotton mill in Bombay (Mumbai) come up? (a) 1854 (b) 1855 (c) 1862 (d) 1874	 104. Which one of the following minerals is not obtained from the veins and lodes? (a) Tin (b) Zinc (c) Lead (d) Gypsum
 102. Which of the following statements does not support the view of some historians that Print Culture was the basis for the French Revolution? (a) Print culture led to the spread of ideas of enlightened thinkers and encouraged questioning, critical reasoning and rule of reason rather than tradition (b) It led to a public culture of debate, discussion, new ideas of social revolution (c) Print did not directly shape the people's minds but opened up the possibility of thinking differently (d) It aroused hostility against monarchy, its mentality and mocked it motion 	 105. What is the correct meaning of aglomeration economies? (a) Many industries set up in rural centres (b) Industries are basically agro-based. (c) Many industries tend to come together to make use of the advantages offered by the urban centres (d) Industries set up produce raw aterial for secondary sector.

Disha Foundations SPI Classes for Written Exam And Interview



या परीक्षेत यशस्वी होण्यासाठी विद्यार्थ्याचे मनोबल, जिद्द चिकाटी यासोबतच योग्य मार्गदर्शनाची गरज आहे.



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106. When running water cuts through clayey soils and makes deep channels, they lead to:	110. Which one of the following groups of cities is connected by the National Highway No. 1?
 (a) Gully erosion (b) Sheet erosion (c) Deforestation (d) Afforestation 	<mark>(a) Delhi – Amritsar</mark> (b) Delhi – Kolkata (c) Delhi – Mumbai (d) Varanasi – Kanyakumari
107. The helicopter services to Oil and Natural Commission in its offshore operations are provided by:	111. Forests and wastelands belonging to both private individuals and government are known as:
(a) Air India (b) Indian Airlines (c) Pawanhans helicopters (d) Alliance Air	 (a) Sacred groves (b) Reserved forest (c) Protected forests (d) Unclassed forests
 108. Which of the following crops are grown with the onset of monsoons and are harvested in the month of September and October? (a) Rabi (b) Kharif (c) Zadi (d) None of the above 	 112. The mountain share in the total land area is: (a) 30% (b) 27% (c) 43% (d) 40%
109. Which one of the following agencies, market steel for the public sector plants ?	113. Admiral Gorshkov, the Soviet aircraft carrier imported by India is now named –
(a) HAIL (b) SAIL (c) TATA STEEL (d) MNCC	 (A) INS Vikrant (B) INS Vikramaditya (C) INS Virat (D) INS Vishaal

114. What are the three R's to save the environment?	118. Which of the following chemicals causes depletion of the ozone layer?
 (a) Reduce, Recycle, Reuse (b) Replenish, Reduce, Reuse (c) Reconstruct, Recycle, Reduce (d) Reduce, Recycle, Remove 	 (a) Carbon tetrachloride (b) Methane (c) Chloro fluoro carbon (d) Carbon monoxide
115. The unit for measuring potential difference is:	119. Which of the following will undergo addition reactions?
A. Watt B. Ohm <mark>C. Volt</mark> D. kWh	(a) CH4 (b) C3H8 (C) C2H6 (d) C2H4
<pre>116. Identify 'A' in the following reaction: CH3COOH + Na2CO3 → A + CO2 + H0O (a) CH3COONa (b) CH2(Na)COOH (c) NaOH (d) NaHCO3</pre>	 120. expand the abbreviation GAP (a) Government Action Plan (b) Ganga Action Plan (c) Government Agency for Pollution Control (d) Government Animal Protection Plant
117. The asexual reproduction in the Spirogyra involves:	121. Which of the following is a contraceptive?
(a) Breaking up of filaments into smaller bits	a. Copper t
(b) Division of a cell into many cells	b. Condom
(c) Division of a cell into two cells	c. Diaphragm
(d) Formation of a large number of buds	d. All of these

 122. Project 75 Is Related To A. Indian Navy B. Indian Airforce C. Indian Army D. Maharashtra Sainik Prabodhini 	 126. Who of the following was the Chief of Army at the time of Indo-Pak war of 1971? (A) General PP Kumaramangalam (B) Field Marshal SHFJ Manekshaw (C) General JN Chaudhari (D) General KS Thimayya
 123. Which of the following organizations has Sarvatra Sarvottam Suraksha as its slogan? (A) Border Security Force (B) Sikh Light Infantry (C) Indian Air Force (D) National Security Guard 	 127. The objective of India's space programme was (A) Mass communication and education via satellite (B) Survey and management of natural resources (C) Development of indigenous satellites and satellite launch vehicles (D) All of the above
124 Which of the following is India's first indigenously developed nuclear-powered submarine?(A) INS Vikrant(B) INS Trikhand(C) INS Arihant(D) INS Sindhurakshak	 128. IGMT Stands For. A. Indira Gandhi Missile Technology B. Indian Guarantee Mission Technology C. Integrated Guided Missile Technology D. None Of The Above
 125 Indra series of exercises are jointly held biennially in the Indian Ocean by India and – (A) Russia (B) France (C) Singapore (D) Israel 	129.IndianSpaceResearchOrganization WasEstablished inA.1969B.1955C.1998D.1991

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Directions -(Q. 130 to 134): Some of the sentences have errors and some have none. Find out which part of a sentence has error and blacken the oval corresponding to the appropriate to the appropriate letter (A,B,C).If there is no error, blacken the oval corresponding to (D) in the Answer Sheet.

130. Kiran was not doing well (A)/ yesterday so he absented (B)/ from the seminar. (C)/ No error. (D)

131. The guard hides himself behind (A)/ the tree to observe what (B)/ the stranger is doing. (C)/ No error. (D)

132. The supervisor said to the (A)/ servant, "The containers are (B)/ empty, Please fill". (C)/ No error.(D)

133. The manager said "The employees (A)/ who perform well, they (B)/ will get the incentives. (C)/ No error.(D)

133. I read with pleasure Vivekananda's (A)/ works who was a (B)/disciple of

Ramakrishna Paramahamsa.(C)/ No error (D)

Directions : In questions 134 to 138, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the idiom/phrase and mark it on the answer sheet.

134. A fair weather friend.	135. Addle egg :
 (A) At daggers drawn (B) A selfish . (C) A dark horse (D) A friend in need 	 (A) foolish (B) smoker (C) useful (D) proud)

Directions : Read the following passage carefully and answer the questions given below it.

Recent advances in science and technology have made it possible for geneticists to find out abnormalities in the unborn foetus and take remedial action to rectify some defects which would otherwise prove to be fatal to the child. Though genetic engineering is still at its infancy, scientists can now predict with greater accuracy a genetic disorder. It is not yet an exact science since they are not in a position to predict when exactly a genetic disorder will set in. While they have not yet been able to change the genetic order of the gene in germs, they are optimistic and are holding out that in the near future they might be successful in achieving this feat. They have, however, acquired the ability in manipulating tissue cells. However, genetic misinformation can sometimes be damaging for it may adversely affect people psychologically. Genetic information may lead to a tendency to brand some people as inferiors. Genetic information can therefore be abused and its application in deciding the sex of the foetus and its subsequent abortion is now hotly debated on ethical lines. But on this issue geneticists cannot be squarely blamed though this charge has often been levelled at them. It is mainly a societal problem. At present genetic engineering is a costly process of detecting disorders but scientists hope to reduce the costs when technology becomes more advanced. This is why much progress in this area has been possible in scientifically advanced and rich countries like the USA, UK and Japan. It remains to be seen if in the future this science will lead to the development of a race of supermen or will be able to obliterate disease from this world.

136. Which of the following statements according to passage is/are true ?	137. Which of the following is the same in meaning as the word 'squarely' as used in the passage?
(1) Technicians are not able to	
determine the time when genetic	(A) rigidly (B) firmly
disorder will set in	(C) directly (D) at right angle
(2) Technicians have been able to	
manipulate tissue cells.	
(A) 1 only (B) 2 only	
(C) Both 1 and 2 (D) Either 1 or 2	

138. Which of the following is not true, according to the passage?	Directions : Rearrange the jumbled paragraph.
 (A) Society is not affected by the research in genetic engineering. (B) Genetic engineers are not able to say some things with certainty. (C) If genetic information is not properly handled, it will create problems. (D) Manipulation of genes is presently done only in tissue cell. 	 142. 1. The problem P. at a price Q. is to build houses R. lower middle-class people S. today 6. can afford to pay (A) QRSP (B) SQPR (C) PQSR (D) RSPQ
 139. According to the author, the present state of knowledge about heredity has made geneticists:- (A) introspective (B) accusative (C) arrogant (D) optimistic 	 143. 1. Computer lovers claim P. with the help of a computer and Q. declare results R. that they can learn everything S. it can also administer tests, 6. and award certificates. (A) PSQR (B) RSPQ (C) RPSQ (D) QPRS
140. What is the tone of the author in the last sentence of the passage?(A) resignation (B) cautious(C) relief (D) concern	 144. 1. Freedom fighters P. an enhanced pension Q. and their spouses R. would now get S. of `10,000 a month 6. effective from October 2 (A) SQPR (B) QRPS (C) RQSP (D) QSPS
 141. Which of the following is not true of the genetic engineering movement? (A) Possibility of abuse (B) It is confronted by ethical problems. (C) Increased tendency to manipulate gene cells. (D) Acquired ability to detect genetics disorders in unborn babies. 	145. 1. In the present day world, P. technology, medicine Q. in the fields of R. demand for specialists S. there is a lot of 6. and business management (A) RPQS (B) PQRS (C) SRQP (D) SQRP

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146. Give the antonym of MILITARY A.Civil B.Militant C.Civility	 149. Find most opposite word of COERCIVE A.Progressive B.Promoting C.Opinionated
D. Coup	D.Gentle
 147. Choose the word which is most opposite in meaning to the word EMBRACE A.Disobey B.Contradict C.Reject D.Obscure 	150. Find the word just opposite of TIMID A.Gentle B.Tired C.Brave D.Snicker
 148. Find the most opposite meaning of SUBVERSION A.Destabilisation B.Clarity C.Compliance D.Sanity 	

Space Of Rough Work

Question Paper Credit.

Mr. Manish Patil, Director, Disha Foundation.Dr. Tanmay Patil, M.sc., P.hd. BotanyMr. RR Sir, Mathematics Expert for NDA mathematics.Prof. Sharad Patil. Aviation Engineer.

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ठरले आहेत.

'एनडीए' प्रवेशासाठी लोकसेवा

t SPI student to join Goa Academy rest motivated to join the armed forces when I as in achool, an Air Ferze officet, who visited our armed forces. As my

said.

Earlier in January 17

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