SAMPLE PAPER

SET (Spectrum Entrance Test)

for Students Presently in Class 10th







Class: X

Time: 2 Hours

Max. Marks: 225

INSTRUCTIONS

1. The question paper contains 75 questions in four parts (Part A: Science, Part B: Mathematics and Part C: Mental Ability) and 24 pages.

Part A contains 25 questions, Part B contains 30 questions and Part C contains 20 questions.

Each question has four options A, B, C & D, out of which only one option is correct.

Each question carries +3 marks for correct answer and -1 mark for wrong answer.

Please ensure that the Question Paper you have received contains all the QUESTIONS and Pages. If you found some mistake like missing questions or pages then contact immediately to the Invigilator.

- 2. Indicate the correct answer(s) for each question by filling appropriate bubble(s) in your OMR sheet.
- **3.** Use only HB pencil for darkening the bubble(s).
- 4. Use of Calculator, Log Table, Slide Rule and Mobile is not allowed.

5. F	For example if only ' B	' choice is correct	then, the correct met	ethod for filling the bubble is
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A B C D
O ● O O

The answer of the question in any other manner (such as putting \bigcirc , cross \bigcirc , or partial shading \bigcirc etc.) will be treated as wrong.



PART A: SCIENCE

Q.1 to Q.25 has four choices (A), (B), (C), (D) out of which only ONE is correct.

1. Examine the following elements:

N, O, F, Ne

P, S, Cl, Ar

Br, Kr

In modern periodic table, on which side these elements are placed-

- (A) Top left side
- (B) Botton left side
- (C) Top right side
- (D) Middle side
- 2. A saturated hydrocarbon has 50 hydrogen atom. The number of carbon atom in the hydrocarbon will be:
 - (A) 24
- (B) 26
- (C) 25
- (D) 23
- 3. Rutherford's alpha-particle scattering experiment was responsible for the discovery of
 - (A) Atomic Nucleus
- (B) Electron
- (C) Proton
- (D) Neutron
- **4.** Which of the following traids represents isotones (same no of neutrons)?
 - (A) ${}_{6}C^{12}$, ${}_{6}C^{13}$, ${}_{6}C^{14}$

(B) $_{18}\mathrm{Ar}^{40}$, $_{20}\mathrm{Ca}^{42}$, $_{21}\mathrm{Sc}^{43}$

(C) ₁₈Ar⁴⁰, ₂₀Ca⁴⁰, ₂₁Sc⁴¹

(D) $_{7}N^{14}$, $_{8}O^{16}$, $_{9}F^{19}$

- 5. Dry ice is -
 - (A) Water in solid state

(B) Water in gaseous state

(C) CO₂ in liquid state

(D) CO₂ in solid state

ROUGH WORK



6.	Name the process by which a drop of ink spreads in a beaker of water –									
	(A) Diffusion	(B) Vaporization	(C) Condensation	(D) Sublimation						
7.	Which of the follo	owing is not a chemical	change-							
	(A) Electrolysis of	water								
	(B) Boiling of water									
	(C) Digestion of fo									
	(D) Burning of magnesium ribbon in oxygen to form magnesium oxide.									
8.	Of these, the meta	al which occurs in a free	e state is							
	(A) Na	(B) Mg	(C) Zn	(D) Pt						
	(A) Na	(D) Mg	(C) ZII	(D) 1 t						
9.	Which of the following statements about the following reactions is correct?									
•	ZnO + CO \rightarrow Zn + CO,									
	(A) ZnO is being ox		(B) CO is being redu	iced						
	(C) CO ₂ is being or	•	(D) ZnO is being reduced							
10.	Nitrogen moelcule involves formation of									
	(A) single covalent bond (B) double covalent bond									
	(C) triple covalent bond (D) ionic bond									
11.	Graphite is used as a lubricant because it is									
	(A) greyish black		(B) insoluble in water							
	(C) having high mel	ting point	(D) soft, sllipery							



12.	Which	of the	follow	ina ic	a combustion	reaction _
14.	W IIICII	or me	TOHOW.	mg is	a combustion	reaction –

- (A) Boiling of water (B) Melting of wax (C) Burning of petrol (D) None of these
- 13. Two particles are placed at some distance. If the mass of each of the two particles is doubled, keeping the distance between them unchanged, the value of gravitational force between them will be
 - (A) $\frac{1}{4}$ times
- (B) 4 times
- (C) $\frac{1}{2}$ times
- (D) unchanged
- 14. If the index finger points towards the north and the middle finger towards the east, by using Fleming's left hand rule what will be the direction of motion or the force acting on the conductor?
 - (A) South
- (B) West
- (C) Top
- (D) Bottom
- A passenger travels along a straight line with velocity \boldsymbol{v}_1 for first half time and with velocity \boldsymbol{v}_2 for next half 15. time, then the mean velocity v is given by,

$$(A) v = \sqrt{\frac{v_2}{v_1}}$$

- (A) $v = \sqrt{\frac{v_2}{v_1}}$ (B) $v = \sqrt{v_1 v_2}$ (C) $v = \frac{2v_1 v_2}{v_1 + v_2}$ (D) $v = \frac{v_1 + v_2}{2}$
- 16. Lungs perform 2.4 J of work during each expansion. How many times do they expand per minute if their power is 2 Watts?
 - (A) 50 times
- (B) 40 times
- (C) 60 times
- (D) 30 times



17.	Total internal reflection occurs when light travels from:										
	(A) A rare medium to a denser medium and the angle of incidence is less than the critical angle										
	(B) A denser medium to rarer medium										
	(C) A rare medium to	denser medium									
	(D) A rarer medium to	a denser medium and t	he angles of incidence i	s greater than the critical angle							
18.	A body at rest may ha	A body at rest may have									
	(A) Potential Energy	(B) Kinetic energy	(C) Velocity	(D) momentum							
19.	Unit of Density.										
	(A) kg/m3 (B) kg m3		(C) $\frac{m^3}{kg}$	(D) none of these							
20.	An object starts with velocity 5 m/s and after time 10s it has the velocity of 9m/s. Then the displaceme is given by										
	$(A) 70 \mathrm{m}$	(B) 90m	(C) 20m	(D) 0m							
21.	A car moves from N displacement of car is:	'	istance 1000km) and	then comes back. Distance and							
	(A) 2000 km and 0 km	m	(B) 0 km and 2000 Km								
	(C) 1000 km and 0 km	n	(D) 0 km and 2000 Km								
22.	A person holds a mass	of 100 Kg for 1 hour.	Work done is:								
	(A) 100 J	(B) 6000 J	(C) 360000 J	(D) Zero							

ROUGH WORK



- 23. Size of object is same as image. Which of the following is possible:
 - (A) Convex Mirror, Object at Focus
- (B) Convex Mirror, Object at Center of Curvature
- (C) Concave Mirror, Object at Focus
- (D) Concave Mirror, Object at Center of Curvature
- **24.** Which of the following is formula for power loss in resistance?
 - $(A) IR^2$
- (B) $\frac{V}{R^2}$
- $(C) V^2R$
- (D) VI

- **25.** Find equivalent resistance of following circuit.
 - $(A) 2 \Omega$

(B) 4Ω

 $(C) 6 \Omega$

(D) 8Ω



ROUGH WORK



PART B: MATHEMATICS

Q.26 to Q.55 has four choices (A), (B), (C), (D) out of which only ONE is correct.

- 26. A sphere and cube have the same surface area, the ratio of their respective volumes is
 - (A) 4:3
- (B) $\sqrt{6} : \sqrt{\pi}$
- (C) $\sqrt{3}$: $\sqrt{\pi}$
- (D) 22:7
- 27. What is the smallest number which when increased by 5 is divisible by 28, 36, 63 and 108?
 - (A)761
- (B) 756
- (C)751
- (D) 766
- **28.** If x + y = 5; then find the value of $x^3 + y^3 + 15xy 125$
 - (A)5
- (B)0
- (C) 1
- (D) 25
- 29. If the hypotenuse of a right angled triangle is 41 cm and the area of the triangle is 180 cm², then the difference between the lengths of the legs of the triangle must be
 - (A) 22 cm
- (B) 25 cm
- (C) 27 cm
- (D) 31 cm
- 30. Which point divides the line segment joining the points (a+b, a-b), (a-b,a+b) in the ratio a:b externally:-
 - (A) $\left(\frac{a^2 2ab b^2}{a b}, \frac{a^2 + b^2}{a b}\right)$

(B) $\left(\frac{a^2 + 2ab - b^2}{a - b}, \frac{a^2 + b^2}{a - b}\right)$

- (C) $\left(\frac{a^2 + 2ab + b^2}{a b}, \frac{(a + b)^2}{a b}\right)$
- (D) $\left(\frac{a^2 2ab + b^2}{a b}, \frac{(a + b)^2}{a b}\right)$

ROUGH WORK



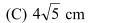
 (A) 4:9 (B) 4:5 (C) 2:3 (D) 3:2 32. Given that x/2 + y/4 = k and 2/x + 4/y = k/2. What is the value of xy? (k being a real number) (A) 1 (B) 4 (C) 16 (D) Cannot be determined unless value of k is known as a context of the form of a cylinder of 1.5 m diameter and 3.5 m in length. The block is rolled into the form of a bar, having a square section of side 5 cm. Find the length of the bar. (A) 2375 m (B) 2475 m (C) 2575 m (D) 2600 m 34. Four watches are ringing alarm bells in the interval of 6, 12, 15 and 18 seconds. If they start at the stime, how many times they will ring together in 4 hours? (A) 80 (B) 81 (C) 20 (D) 21 35. In an examination, 34% of the students failed in Mathematics and 42% failed in English. If 20% of students failed in both the subjects, then the percentage of students who passed in both the subject 	31.	If the base of two si	imilar triangles are in th	ne ratio 2:3, then their p	erimeters are in the ratio	
(A) 1 (C) 16 (D) Cannot be determined unless value of k is known as a cylinder of 1.5 m diameter and 3.5 m in length. The block is rolled into the form of a bar, having a square section of side 5 cm. Find the length of the bar. (A) 2375 m (B) 2475 m (C) 2575 m (D) 2600 m 34. Four watches are ringing alarm bells in the interval of 6, 12, 15 and 18 seconds. If they start at the stime, how many times they will ring together in 4 hours? (A) 80 (B) 81 (C) 20 (D) 21 35. In an examination, 34% of the students failed in Mathematics and 42% failed in English. If 20% of students failed in both the subjects, then the percentage of students who passed in both the subjects		(A) 4 : 9	(B) 4:5	(C) 2:3	(D) 3:2	
 (C) 16 (D) Cannot be determined unless value of k is known. 33. An iron block is of the form of a cylinder of 1.5 m diameter and 3.5 m in length. The block is rolled into the form of a bar, having a square section of side 5 cm. Find the length of the bar. (A) 2375 m (B) 2475 m (C) 2575 m (D) 2600 m 34. Four watches are ringing alarm bells in the interval of 6, 12, 15 and 18 seconds. If they start at the stime, how many times they will ring together in 4 hours? (A) 80 (B) 81 (C) 20 (D) 21 35. In an examination, 34% of the students failed in Mathematics and 42% failed in English. If 20% of students failed in both the subjects, then the percentage of students who passed in both the subjects 	32.	Given that $\frac{x}{2} + \frac{y}{4} =$	$= k \text{ and } \frac{2}{x} + \frac{4}{y} = \frac{k}{2}. \text{ W}$	hat is the value of xy? (k	being a real number)	
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35. In an examination, 34% of the students failed in Mathematics and 42% failed in English. If 20% of students failed in both the subjects, then the percentage of students who passed in both the subject	34.				118 seconds. If they start a	at the same
students failed in both the subjects, then the percentage of students who passed in both the subject		(A) 80	(B) 81	(C) 20	(D) 21	
(A) 44 $(B) 50$ $(C) 54$ $(D) 56$	35.				_	
$(A)^{++}$ $(B)^{50}$ $(C)^{5+}$ $(D)^{50}$		(A) 44	(B) 50	(C) 54	(D) 56	



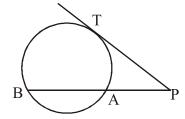
In the figure shown, PT and PAB are the tangent and the secant drawn to a circle. If PT = 12 cm, **36.** PB = 18 cm, then AB is



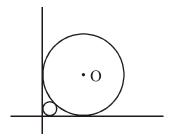
(B) 10 cm



(D) 18 cm



A circle placed against a right triangle centred at O is the 14 cm radius. What is the radius of the smaller **37.** circle placed in the remaining gap?



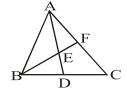
(A) $7(\sqrt{2}+1)$ (B) $14(\sqrt{2}-1)$ (C) $7(\sqrt{2}-1)^2$ (D) $14(\sqrt{2}-1)^2$

ROUGH WORK

Page #9 **Spectrum**



- 38. The length, breadth and height of a room are 15 m, 12 m and 5 m respectively. Find the cost of painting the four walls of room at the rate of Rs.100 per m².
 - (A) 24000
- (B) 26000
- (C) 25000
- (D)27000
- 39. In a \triangle ABC, D is the mid-point of BC and E is mid-point of AD, BF passes through E. What is the ratio of AF: FC?
 - (A) 1 : 1
 - (B) 1:2
 - (C) 1:3
 - (D) 2:3



- **40.** If $\sqrt{2^n} = 1024$ then $3^{2(\frac{n}{4}-4)}$
 - (A)3
- (B) 9
- (C) 27
- (D)81
- 41. Value of K in $p(x) = x^3 + x + k$ if (x-1) is the factor of p(x)
 - (A) 1
- (B)0
- (C) -2
- (D)2
- 42. Center of a square (point of entersection of digonals of square), with vertices (0, 0), (4, 0), (4, 4), (0, 4) is.
 - (A)(1,1)
- (B)(2,2)
- (C)(3,3)
- (D)(4,4)



- 43. If a and b are rational no. and $\frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} \sqrt{3}} = a + b\sqrt{15}$, then a + b = .
 - (A) 0
- (B) 1
- (C) 31
- (D) 5
- **44.** Find 5th and 6th terms of the arithmetic progression 0, 1/4, 1/2, 3/4,
 - (A) 1, 5/4
- (B) 5/4, 1
- (C) 1, 7/4
- (D) 7/4, 1
- **45.** A closed metallic cylindrical box is 1.25 m high and its base radius is 35 cm. If the metal sheet costs Rs. 80 per m², the cost of the material used in the box is _____.
 - (A) Rs. 281.60
- (B) Rs. 290
- (C) Rs. 340.50
- (D) Rs. 500

- 46. The value of $4 \frac{5}{1 + \frac{1}{3 + \frac{1}{2 + \frac{1}{4}}}}$ is
 - (A) $\frac{40}{31}$
- (B) $\frac{4}{9}$
- (C) $\frac{1}{8}$
- (D) $\frac{31}{40}$



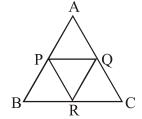
- 47. C(3,0) and D(3,1) are the points of trisection of a line segment AB. Find the respective coordinates of A and B.
 - (A)(3,2),(3,0)
- (B) (3,-1), (3,2)
- (C)(-3,1),(3,2)
- (D) None of these
- ABC is an equilateral triangle of side $4\sqrt{3}$ cm. P, Q & R are midpoints **48.** of AB, CA & BC respectively. The area of triangle PQR is (in cm²)



(B) $3\sqrt{3}$



(D) $\sqrt{3}/2$

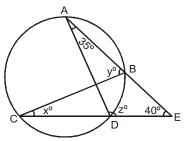


- In a throw of a pair of dice, what is the probability of getting a doublet? 49.
 - (A) $\frac{1}{3}$
- (B) $\frac{1}{6}$ (C) $\frac{1}{2}$
- (D) $\frac{2}{3}$
- In a pair of fractions, fraction A is twice the fraction B and the product of two fractions is $\frac{2}{25}$. What is **50.** the value of fraction A?
 - (A) $\frac{1}{5}$
- (B) $\frac{1}{25}$ (C) $\frac{2}{5}$
- (D) None of these

ROUGH WORK



In a circle two chords AB and CD intersect at an external point E. If $\angle A = 35^{\circ}$, $\angle E = 40^{\circ}$, 51. $\angle BCD = x^{o}$, $\angle ABC = y^{o}$ and $\angle ADE = z^{o}$, then false statement is:



- (A) $z y = 30^{\circ}$
- (B) $x y = 40^{\circ}$
- (C) $x + z = 140^{\circ}$
- (D) $y + z = 180^{\circ}$
- If the sum of the zeroes of the quadratic polynomial $f(x) = kx^2 + 2x + 3k$ is equal to their product, find **52.** the value of k.
 - (A) $\frac{2}{3}$

- (B) $\frac{-2}{3}$ (C) $\frac{5}{6}$ (D) $\frac{-5}{6}$
- $\sqrt{3+\sqrt{5}} =$ **53.**

- (A) $\sqrt{2} + 1$ (B) $\sqrt{\frac{5}{2}} + \sqrt{\frac{1}{2}}$ (C) $\sqrt{\frac{7}{2}} \sqrt{\frac{1}{2}}$ (D) $\sqrt{\frac{9}{2}} \sqrt{\frac{3}{2}}$

ROUGH WORK



- **54.** $P = 2(4)(6) \dots (20)$ and $Q = 1(3)(5) \dots (19)$. What is the HCF of P and Q? (A) $3^3 5$ (B) $3^4 5$ (C) $3^4 5^2 7$ (D) $3^3 5^2$
- **55.** The curved surface area of a cone of height 12 cm and base radius 5 cm is.

(A) 715/7

(B) 1430/7

(C) 1430

(D) 715

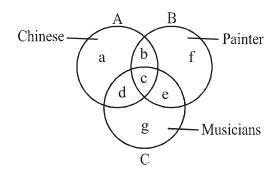
ROUGH WORK



PART C: MENTAL ABILITY

Q.56 to Q.75 has four choices (A), (B), (C), (D) out of which only ONE is correct.

Directions (Q.56 & 57): In the figure given below, there are three intersecting circles each representing certain section of people. Different regions are marked a - g. Read the statements in each of the following questions and choose the letter of the region which correctly represents the statements.



56. Painters who are neither Chinese nor musicians

(A)b

- (B) c
- (C) f
- (D)g

57. Chinese who are painters as well as musicians

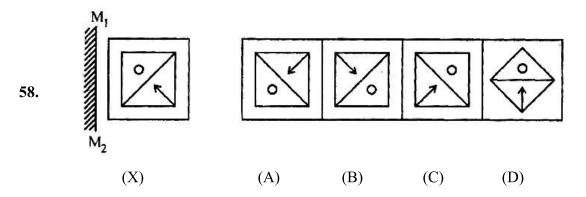
(A) a

- (B) b
- (C) c
- (D) d

ROUGH WORK



Direction (Q.58): In each of the following questions, choose the correct mirror-image of the Fig. (X) from amongst the four alternatives (1), (2), (3) and (4) given along with it. The mirror represented by a line $M_{\scriptscriptstyle 1}M_{\scriptscriptstyle 2}$,



Direction (Q.59 to 61): Study the following information carefully and answer the questions below.

A team of five is to be selected from amongst five boys A, B, C, D and E and four girls P, Q, R and S.

Some criteria for selection are –

A and S have to be together.

P cannot be put with R.

D and Q cannot go together.

C and E have to be together.

R cannot be put with B.

Unless otherwise started, these criteria are applicable to all questions below

59. If two of the members have to be boys, the team will consist of

(A) ABSPQ

(B) ADSQR

(C) BDSRQ

(D) CESPQ

ROUGH WORK



60. If two of the members are girls and D is one of the members, the members of the team other than D are

(A) PQBC

(B) PQCE

(C) PSAB

(D) PSCE

61. If including P at least three members are girls, the members of the team other than P are

(A) QSAB

(B) QSBD

(C) QSCE

(D) RSAD

Direction (Q.62 & 63): In each of the following questions, one term in the number series is wrong. Find out the wrong term.

62. 6, 15, 35, 77, 165, 221

(A)35

(B) 77

(C) 165

(D) 221

63. 2, 6, 24, 96, 285, 568, 567

(A) 6

(B) 24

(C) 285

(D)567

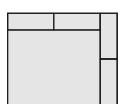
64. What is the number of rectangles in the following figure?

(A)6

(B) 7

(C) 9

(D) 11



Direction (Q.65): In each of the following questions, choose that set of numbers from the four alternative sets, that is similar to the given set.

65. Given set: (6, 36, 63)

(A)(7,49,98)

(B) (8, 64, 46)

(C)(9, 84, 45)

(D) (11, 111, 84)

ROUGH WORK



66. Which one will replace the question mark?

4 4 7 7

3 6 2 4

2 6 2 /?

- (A)2
- (B)4
- (C) 6
- (D) 8
- 67. How many times do the hands of a clock coincide in a day?
 - (A) 20
- (B)21
- (C) 22
- (D) 24

Direction (Q.68): In the following question there are equations that have become wrong due to wrong order of signs. Choose the correct order of signs from the four alternatives given below. So that the equations become right.

- **68.** 8 = 2 + 4 16
 - $(A) \times + =$
- $(B) \div \times =$
- (C) + =
- $(D) \times \div =$

Direction (Q.69): In each blank space wirte one of $+, -, \times$ and \div signs so that the equation is ture.

- **69.** 15 5 (15 3) = 80
 - $(A) \times, \div, +$
- (B) \times , \div , –
- $(C) \times, +, \div$
- $(D) \times, -, \div$
- **70.** Nine carpenters can make nine chairs in nine days, then one carpenter will make three chairs in how many days?
 - (A)3
- (B)9
- (C) 27
- (D) 18

ROUGH WORK



Directions (Q.71): Study the following information and answer the questions given below:

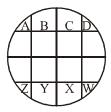
- (i) A rectangular wooden block is having length 6 cm, breadth 4 cm and height 1 cm.
- (ii) Both sides having dimension 4 cm. 1 cm are painted with black colour.
- (iii) Both sides having dimension 6 cm. 1 cm are painted in red colour.
- (iv) Both sides with dimension 6 cm. 4 cm are painted in green colour.
- (v) The block is cut into size equal pairs of 1 cm each (from 6 cm side) and into 4 equal parts of 1 cm each (from 4 cm side).

71.	If cubes having only "black as well as green" colour are removed, then how many cubes will remain?									
	(A) 4	(B) 8	(C) 12	(D) None of these						

ROUGH WORK



Directions (Q.72 to 74): A posse of four policeman. A, B, C and D is combining a circular park divided into sixteen plots. P, Q, R and K are the offenders whom they have to catch after given moves. The figure below shows their positions. Note that the by-lanes are North-South and East-West.



- **72.** Who two are positioned North-West and South-East?
 - (A) W and A
- (B) B and Y
- (C) A and W
- (D) Z and D
- 73. If A, B, C and D were to move clockwise four plots and W, X, Y and Z were to move anti-clockwise six plots, then who two would be in North and South directions respectively?
 - (A) B and X
- (B) Y and D
- (C) Z and A
- (D) W and C
- 74. If both A, B, C, D and P, Q, R, K move clockwise three plots, then who two would be positioned North-East and South-West?
 - (A) A and W
- (B) B and X
- (C) C and X
- (D) D and Z

ROUGH WORK



Direction (Q.75): There is some relationship between the two terms to the left of :: and the same relationship holds between the two terms to its right. Find out this term.

75. MK:
$$\frac{169}{121}$$
:: JH:?

- (A) $\frac{100}{64}$ (B) $\frac{100}{81}$ (C) $\frac{64}{120}$ (D) $\frac{81}{100}$

ROUGH WORK



Answer Key: Spectrum Sample Test Paper

Target : Engineering

	1	2	3	4	5	6	7	8	9	10	11	12	13
Ans.	C	A	A	В	D	A	В	D	D	C	D	C	В
Que.	14	15	16	17	18	19	20	21	22	23	24	25	26
Ans.	С	D	Α	В	Α	Α	Α	Α	D	D	D	D	В
Que.	27	28	29	30	31	32	33	34	35	36	37	38	39
Ans.	C	В	D	Α	С	С	В	В	Α	В	D	D	В
Que.	40	41	42	43	44	45	46	47	48	49	50	51	52
Ans.	В	С	В	D	Α	Α	С	В	В	В	C	В	В
Que.	53	54	55	56	57	58	59	60	61	62	63	64	65
Ans.	В	С	В	С	С	С	Α	С	Α	С	В	С	В
Que.	66	67	68	69	70	71	72	73	74	75			
Ans.	C	C	В	С	С	D	С	В	Α	Α			