

Reso-FAST SAMPLE TEST PAPER

FOR STUDENTS MOVING IN CLASS-VIII IN 2019-20 (PRESENTLY STUDYING IN CLASS-VII IN 2018-19)

Time: 1½ Hr. Max. Marks: 210

GENERAL INSTRUCTIONS

- 1. Question paper contains 70 questions of Mathematics (1 to 25), Physics (26 to 35), Chemistry (36 to 45), Biology (46 to 55) & Mental Ability (56 to 70), each question carry 3 mark.
- 2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
- 3. Write your Name and Roll No. in the space provided in the bottom of this booklet.
- 4. Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
- 5. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
- 6. There is no negative marks for wrong answer.

Name:

- 7. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
- 8. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.

 MARKING CRITERIA

No. of Questions	Type	Marks						
nord: quodiono	.,,,,,	Correct	Incorrect	Blank				
1–70	Only one correct	Q. No. 1 to 70 (3 Mark each)	NO NEGATIVE MARKS	0				

— IMPORTANT —

PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET Wrong Filling Right Filling (A) (C) (D) Tick mark Fully darken with HB Pencil A 💢 © D A © © Fully darken with HB Pencil Cross mark A **3** C D Half filled or semi dark Fully darken with HB Pencil B C D ● B C D Light filled Fully darken with HB Pencil

PCCP Head Office

Address : Plot No. A-51 [A], IPIA, Near Resonance CG Tower, Behind City Mall, Jhalawar Road, Kota (Rajasthan)-324005

__ Roll No. : ___

Contact. No.: 8824078330



Syllabus of class-VII_ Reso FAST

MATHEMATICS:

Integer

Rational numbers

Triangle

Exponent

Fraction & decimal

Lines and angles

Congruency of triangle

Algebraic expressions

PHYSICS:

Measurement

Heat

Motion & time

❖ Sound

CHEMISTRY:

General chemistry

Acids, bases & salts

Fibre to fabric

BIOLOGY:

❖ Nutrition in plant

Weather climate and adaptation

Transportation

Nutrition in animals

Respiration

MENTAL ABILITY:

Number series

Letter repeating series:

Alphabet Ttest:

Direction sense test

Mathematical operations

Alphabet series

Missing term in figure

Codiing-decoding

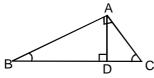
Ranking ordering test



1. In the given $\triangle ABC$ if AB = AC and BD = DC, then $\angle ADC =$



- (A) 60°
- (B) 120°
- (C) 90°
- (D) 45°
- 2. In $\triangle ABC$, $AB \perp AC$ and $AD \perp BC$. If $\angle BAD = 50^{\circ}$, then $\angle ACD$ is



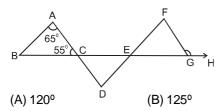
- (A) 40°
- (B) 50°
- (C) 140°
- (D) 60°

s

3. In the given figure ABCD is a square in which points P, Q, R, S are situated in such a way that PQRS is also a square of side 13 cm. If BQ = 5 cm., then the area of square ABCD is:



- (B) 324 cm²
- (C) 361 cm²
- (D) 400 cm²
- 4. In given figure if AB || DF, AD || FG, ∠BAC = 65°, ∠ACB = 55°, then ∠FGH is :

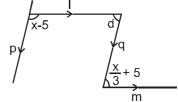


- (C) 115°
- (D) 140°

- its supplement is:
 - $(A) 36^{\circ}$

5.

- (B) 144°
- (C) 155°
- (D) 180°
- 6. In the given figure lines p and q are parallel. Find value of x so that lines I and m be parallel.



The measure of that angle which is four times

- $(A) 45^{\circ}$
- (B) 100°
- (C) 135°
- (D) 60°
- 7. The value of

$$(-5) + (-4) - (-4) - (-5) + (-5) + (-4)$$

- $(-5) + (-4)$ is

- -(-5) + (-4) is (A) 4
- (B) 5
- (C) 0
- (D) –8

8. Simplify
$$222 - \left[\frac{1}{3}\left(42 + \left(56 - 8 + 9\right)\right) + 108\right]$$

- (A)87
- (B) 100
- (C) 89
- (D) 90
- **9.** For integers :
 - (A) Addition is associative
 - (B) Addition is commutative
 - (C) Integer "0" is the identity under addition
 - (D) All of the above
- **10.** Find the value. $4\frac{5}{6} 2\frac{3}{8} + 3\frac{7}{12}$
 - (A) $\frac{145}{24}$
- (B) $\frac{145}{12}$
- (C) $\frac{92}{21}$
- (D) $\frac{145}{4}$

(Space For Rough Work)

5 cm

O

- 11. Descending order of fractions, $\frac{1}{5}$, $\frac{3}{7}$, $\frac{7}{10}$,
 - $\frac{13}{28}$
 - (A) $\frac{13}{28} > \frac{7}{10} > \frac{3}{7} > \frac{1}{5}$
 - (B) $\frac{13}{8} < \frac{7}{10} < \frac{3}{7} < \frac{1}{5}$
 - (C) $\frac{7}{10} > \frac{13}{28} > \frac{3}{7} > \frac{1}{5}$
 - (D) None of these
- 12. If x = 2, then find the value of $x + \frac{2}{1 \frac{1}{1 \frac{1}{x}}}$
 - (A) -3
- (B) $\frac{3}{4}$
- (C) $\frac{4}{3}$
- (D) 0
- 13. If $\frac{-9}{5} = \frac{a}{20} = \frac{27}{b} = \frac{-45}{c}$, then values of a, band
 - (A) 15, 25, -36
- (B) 36 15, 25
- (C) 25, -36, -15
- (D) -15, -36,25
- **14.** The number of rational numbers between two numbers is
 - (A) zero.
- (B) one.
- (C) two.
- (D) infinite.
- 15. A tin of oil was $\frac{4}{5}$ full. When six bottle of oil were taken out and four bottles of oil were poured in, it was $\frac{3}{4}$ full. How many bottles of oil did the tin contain initially?
 - (A) 16
- (B) 40
- (C) 32
- (D) None of these

- 16. A single discount equivalent to a single discount series of 25%, 20%, 10% is
 - (A) 46
- (B) 55
- (C) 54
- (D) 45
- 17. The selling price of a table is more than its cost price by 25%. Then the cost price is less than selling price by :
 - (A) 20%
- (B) 75%
- (C) 80%
- (D) 25%
- **18.** The C.P of 21 articles is equal to S.P. of 18 articles. Find the gain or loss percent.
 - (A) $16\frac{1}{3}\%$
- (B) $16\frac{2}{3}\%$
- (C) 16 %
- (D) None of these
- 19. The ratio of the number of boys and girls in a school is 3 : 2. If 20% of the boys and 30% of the girls are scholarship holders, the percentage of the students who are not scholarship holders is :
 - (A) 50%
- (B) 72%
- (C) 75%
- (D) 76%
- The ratio of radii of two cylinders is 1 : $\sqrt{3}$ and heights are in the ratio 2 : 3. The ratio of their volume is.
- (A) 1:9

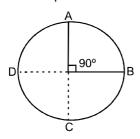
20.

- (B) 2:9
- (C) 4:9
- (D) 5:9
- **21.** If $\sqrt{1 + \frac{27}{169}} = 1 + \frac{x}{13}$, then x =
 - (A) 1
- (D) 4.4
- (C) Cannot be determined(D) None
- **22.** If x = 5 and y = x + 7 then, value of

$$\sqrt{x^2 + y^2} =$$

- (A)65
- (B) 26
- (C) 17
- (D) 13

- 23. The factors of $x^4 + 4$ are
 - (A) $(x^2+2)(x^2+2)$
 - (B) $(x^2+2)(x^2-2)$
 - (C) $(x^2-2x+2)(x^2+2x+2)$
 - (D) Does not exist
- **24.** The compound interest on Rs. 5000 at 4 % per annum for 2 years compounded annually is :
 - (A) Rs 804
- (B) Rs 708
- (C) Rs 408
- (D) Rs 5408
- **25.** In case of compound interest the principal :
 - (A) Increases every year
 - (B) Decreases every year
 - (C) Remains constant throughout the loan period
 - (D) Increases for first year and then decreases
- **26.** The full form of MKS is:
 - (A) Metre, kilogram, second.
 - (B) Mole, kilogram, second.
 - (C) Mole, kelvin, second.
 - (D) Metre, kilobyte, second.
- 27. Oscillatory motion is also known as:
 - (A) Rectilinear motion.
 - (B) Circular motion.
 - (C) Nonuniform motion.
 - (D) Periodic motion.
- 28. An object undergoes an acceleration of 10 m/ s² starting from rest, find velocity after 5 seconds:
 - (A) 100 m/s
- (B) 125 m/s
- (C) 50 m/s
- (D) 150 m/s
- **29.** In the given figure find displacement between A and B of circular path of radius 2 metre:



- (A) $\sqrt{8}$
- (B) $\sqrt{3}$
- (C) $\sqrt{4}$
- (D) $\sqrt{5}$

- **30.** Name the mode of heat transfer in which the particles actually move to the source of heat :
 - (A) Conduction
- (B) Convection
- (C) Radiation
- (D) None of these
- **31.** When the temperature of a substance is increased :
 - (A) Kinetic energy of the molecules of the substance increases.
 - (B) Kinetic energy of the molecules of the substance decreases.
 - (C) The amplitude of vibrations of molecules of the substance about their mean position decreases.
 - (D) Kinetic energy of the molecules of the substance remains same.
- **32.** The use of sound waves to determine distance or find objects is called :
 - (A) Ultrasound
- (B) Infrasound
- (C) Acoustics
- (D) None of these
- **33.** Velocity of sound in fresh water is:
 - (A) More than that in sea water
 - (B) Less than that in air
 - (C) Less than that in sea water
 - (D) More than that in alcohol
- **34.** The noise becomes painful above
 - (A) 80dB.
- (B) 70dB.
- (C) 60dB.
- (D) 50dB.
- **35.** SONAR is used to detect objects in sea beds by the phenomenon of
 - (A) vibrations.
- (B) waves.
- (C) echo.
- (D) light.
- **36.** Atomic number of an element represents -
 - (A) number of neutrons in the nucleus.
 - (B) atomic mass of an element.
 - (C) valency of an element
 - (D) number of protons in the nucleus.
- **37.** The substance that shows different colours in acidic and basic solutions is
 - (A) indicators.
- (B) lacto metre
- (C) lux metre.
- (D) ammetre

38.	Silk is obtained from (A) banana tree. (B) jute stem. (C) silk worm. (D) mango tree		48.	Humans develop (A) two sets of teeth during their lifetime. (B) one set of teeth which lasts for a lifetime. (C) a total of twenty four teeth. (D) a total of sixteen teeth.					
39.	The difference between (A) relative size (B) electronic configura (C) presence of charge		49.	Food moves in the alimentary canal from cregion to another by a process called (A) locomotion. (B) pumping. (C) peristalsis. (D) diastole.					
	(D) all of these		50 .		Most of the photosynthesis (80%) which takes place on this earth is carried on by				
40.	Which fibres are used (A) Natural (C) Both	to make clothes ? (B) Synthetic (D) None of these		(A) green plants on k (B) algae present in f (C) algae found in oc	and resh water				
41.	A protein substance, component of wool fib (A) elastin.	ores, is (B) keratin.		(D) algae present in a sources	ocean and fresh water				
	(C) collagen.	(D) casein.	51.	Weather at a place i tion of atmosphere w	s the day to day condi-				
42.	The wool which break process in manufactu (A) virgin wool. (C) tender wool.			(A) wind, humidity, ra (B) sun, daylength, n	infall and temperature.				
43.	Which of the following (A) Methyl orange (C) China rose	is not an indicator ? (B) Litmus (D) Sunflower	52.	(D) sunlight, moonlig ture.	ht, wind and tempera- st an adult human being				
44.	The strongest variety (A) mulberry silk. (B) mooga silk. (C) tasar silk. (D) oak tasar silk	of silk is	JZ.	breathes (A) 5-10 times in a m (B) 10-13 times in a (C) 15-18 times in a (D) 22-25 times in a	ninute. minute. minute.				
45.	When a drop of phenol in lime water, the solut (A) Blue (C) Milky		53.	Valves that direct the direction are present (A) arteries. (B) veins.	flow of blood only in one in				
46.	Photosynthesis is a (A) physical process. (B) chemical process.			(C) capillaries. (D) arteries, veins an	d capillaries.				
	(C) manmade process. (D) None of these		54.		our chambers of ruminant ted food is moved back to				
47.	Lactic acid is formed in (A) Muscles (C) Yeast	(B) Bacteria (D) None of these		(A) Rumen (C) Omasum	(B) Abomasum (D) All of these				



55.	In plants, gas excha (A) wood. (C) root.	nge takes place through (B) stomata. (D) fruit.	63.	144 4 ? 16 64 36			
Direc 56.	tions (56 to 68): Find 16, 19, 22, 25, ?	the missing numbers :		(A) 96 (C) 100	(B) 81 (D) 169		
	(A) 27 (C) 29	(B) 28 (D) 25					
57.	2, 5, 10, 17, ? (A) 25 (C) 22	(B) 26 (D) 24	64.	5 ? 39 13 8			
58.	8, 11, 15, 22, 33, 51 (A) 80 (C) 58	, ?, 127, 203 (B) 53 (D) 69		(A) 40 (C) 65	(B) 52 (D) 75		
59.	the dictionary, then we from the left in the la	DRMATION, INTEREST,	65.	If PINK is written a written? (A) G P M L (C) G M P L	as N G L I how will IRON be (B) K M P L (D) K P M L		
	(A) R (C) T	(B) O (D) I	66.		guage NATIONAL is written nan how is JAIPUR written in		
60.	from the left and 21s (A) L	way between 22nd letter st letter from the right? (B) M		that language (A) QRZKFI (C) QZRFKI	(B) QZRKFI (D) QZRIFK		
61.	(C) O (D) None of these Arrange the following group such that when arranged in a specific order, meaningful word is formed. R T A O U H 1 2 3 4 5 6 (A) 1, 3, 4, 5, 6, 2 (B) 2, 3, 6, 4, 5, 1			If light is called dark, dark is called green, green is called blue, blue is called red, red is called white and white is called yellow, what is the colour of blood? (A) Red (B) Dark (C) White (D) Yellow			
	(C) 6, 3, 2, 4, 5, 1	(D) 3, 5, 2, 6, 4, 1	68.		facing West, then I turn left		
62. Find which one word can be made from the letters of the given word. MEASUREMENT				go 5 m, and then I go 5 m to the South and from there 5 m to the West. In which direction am I from my house?			
	(A) MASTER (C) SUMMIT	(B) MANTLE (D) ASSURE		(A) East (C) North	(B) West (D) South		



69. How many triangles are there in the figure below? 70.



(A) 5 (C) 8

- (B) 6
- (D) 10

- Pointing to a girl in the photograph, Amar said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Amar?
- (A) Mother
- (B) Sister
- (C) Aunt
- (D) Grandmother

ANSWER KEY

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



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2016 NTSE **SCHOLAR**

2015 **GOLD MEDAL** in 12th IJSO



IESO Final Stage RESULT: 2017-18



Classroom student since class-VII Study Center: Udaipur | Hometown: Udaipur

1 SILVER & 2 BRONZE WON BY TEAM INDIA

At 12th INTERNATIONAL EARTH SCIENCE OLYMPIAD (IESO) held at Kanchanaburi, Thailand.



Reso Roll No:. 18405135 Classroom student since class-VIII Study Center: Raipur | Hometown: Raipur

IJSO (Stage)-1 NSEJS RESULT - 2018



Maharashtra State Topper Siddhant Mukheriee Roll No. 17437554

Hometown: Mumbai

5 STATE TOPPERS

(Maharashtra, Gujarat, Rajasthan, Odisha & Bihar)

IJSO (Stage)-2 **INJSO RESULT-2018**

9 Students selected Out of Total 35 for OCSC

> 25.71% Selection share

Total Selections: 48 (Classroom: 42 | DLPD: 06) | 11 Ranks in Top-50 (1, 3, 6, 12, 13, 18, 21, 23, 29, 44, 44)

NTSE (Stage-2) RESULT: 2017

Total Selections 51.53 % Growth in Result from last year

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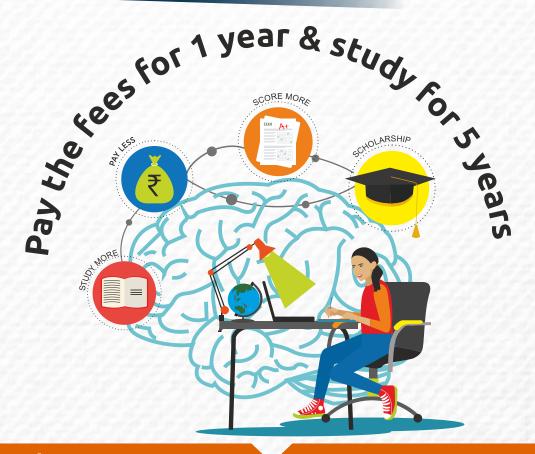
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Test Dates: 14 Oct & 25 Nov 2018

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SCHEDULE

Stage-1: 24 Dec to **30** Dec 2018 **31** Dec to **06** Jan 2019 **Stage-2** & **Board: 24** Dec to **06** Jan 2019