

**GENERAL INSTRUCTIONS FOR SAMPLE TEST PAPER Reso FAST
FOR STUDENTS STUDYING IN CLASS-VII IN 2017-18**

Time : 1½ Hr.

Max. Marks : 210

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(one) 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.
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		
		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

- (A) (C) (D) Tick mark
 (A) (C) (D) Cross mark
 (A) (C) (D) Half filled or semi dark
 (A) (B) (C) (D) Light filled

Right Filling

- (A) (C) (D) Fully darken with HB Pencil
 (A) (C) (D) Fully darken with HB Pencil
 (A) (C) (D) Fully darken with HB Pencil
 (A) (B) (C) (D) Fully darken with HB Pencil

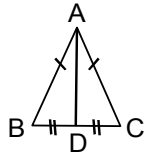
PCCP Head Office

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

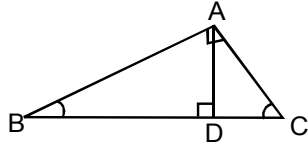
Contact. No. : 8824078330

Website : www.pccp.resonance.ac.in **E-mail :** pccp@resonance.ac.in

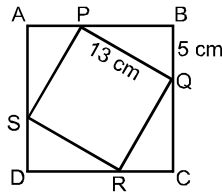
1. In the given $\triangle ABC$ if $AB = AC$ and $BD = DC$, then $\angle ADC =$



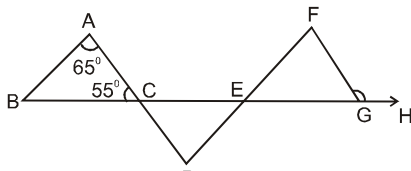
- (A) 60° (B) 120°
 (C) 90° (D) 45°
2. In $\triangle ABC$, $AB \perp AC$ and $AD \perp BC$. If $\angle BAD = 50^\circ$, then $\angle ACD$ is



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



- (A) 289 cm^2
 (B) 324 cm^2
 (C) 361 cm^2
 (D) 400 cm^2
4. In given figure if $AB \parallel DF$, $AD \parallel FG$, $\angle BAC = 65^\circ$, $\angle ACB = 55^\circ$, then $\angle FGH$ is :

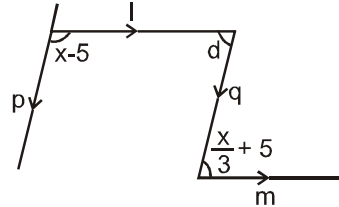


- (A) 120° (B) 125°
 (C) 115° (D) 140°

5. The measure of that angle which is four times its supplement is :

- (A) 36° (B) 144°
 (C) 155° (D) 180°

6. In the given figure lines p and q are parallel. Find value of x so that lines l and m be parallel.



- (A) 45° (B) 100°
 (C) 135° (D) 60°

7. The value of $(-5) + (-4) - (-4) - (-5) + (-5) + (-4) - (-5) + (-4)$ is

- (A) -4 (B) -5
 (C) 0 (D) -8

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

- (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. $4\frac{5}{6} - 2\frac{3}{8} + 3\frac{7}{12}$

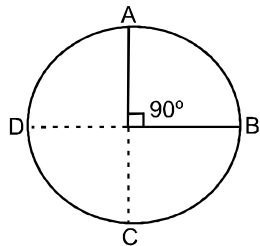
- (A) $\frac{145}{24}$ (B) $\frac{145}{12}$
 (C) $\frac{92}{21}$ (D) $\frac{145}{4}$

(Space For Rough Work)

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, b and c are
- (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 bottles 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%
20. 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 (B) 2 : 9
 (C) 4 : 9 (D) 5 : 9
21. If $\sqrt{1 + \frac{27}{169}} = 1 + \frac{x}{13}$, then $x =$
- (A) 1 (B) 14
 (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

(Space For Rough Work)

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/s^2 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) $\sqrt{5}$


(Space For Rough Work)

38. Silk is obtained from
 (A) banana tree.
 (B) jute stem.
 (C) silk worm.
 (D) mango tree
39. The mixing of vinegar (acetic acid) with baking soda is a
 (A) physical change.
 (B) chemical change.
 (C) environmental change.
 (D) biological change
40. The chemical used as fire extinguisher is
 (A) sodium hydroxide.
 (B) sodium bicarbonate.
 (C) sodium carbonate.
 (D) sodium chloride.
41. A protein substance, which is the chief component of wool fibres, is
 (A) elastin. (B) keratin.
 (C) collagen. (D) casein.
42. The wool which breaks during the combing process in manufacturing is a
 (A) virgin wool. (B) worst wool.
 (C) tender wool. (D) merino wool
43. Which metal reacts with dilute hydrochloric acid to produce hydrogen ?
 (A) Zinc (B) Copper
 (C) Silver (D) Platinum
44. The strongest variety of silk is
 (A) mulberry silk.
 (B) mooga silk.
 (C) tasar silk.
 (D) oak tasar silk
45. When iron nail is placed in copper sulphate solution, the bluish colour of copper sulphate turns -
 (A) brownish (B) yellowish
 (C) greenish (D) colourless
46. Photosynthesis is a
 (A) natural process.
 (B) chemical process.
 (C) manmade process.
 (D) physical process.
47. The correct statement about fungi is that
 (A) mushrooms and yeasts are types of photosynthetic fungi.
 (B) fungi have chlorophyll in them.
 (C) some fungi are used in medicines.
 (D) fungi can make their own food.
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.
49. Food moves in the alimentary canal from one region to another by a process called
 (A) locomotion. (B) pumping.
 (C) peristalsis. (D) diastole.
50. The animal having a silver-white mane surrounding the head from the cheeks down to its chin is a
 (A) penguin. (B) tiger.
 (C) lion. (D) macaque.
51. Weather at a place is the day to day condition of atmosphere with respect to
 (A) wind, humidity, rainfall and temperature.
 (B) sun, daylength, moisture and heat.
 (C) rainfall, temperature, sunlight and moonlight.
 (D) sunlight, moonlight, wind and temperature.
52. On an average, at rest an adult human being breathes
 (A) 5-10 times in a minute.
 (B) 10-13 times in a minute.
 (C) 15-18 times in a minute.
 (D) 22-25 times in a minute.

(Space For Rough Work)

53. Valves that direct the flow of blood only in one direction are present in
 (A) arteries.
 (B) veins.
 (C) capillaries.
 (D) arteries, veins and capillaries.
54. Transport of waste material, food and oxygen, within the body of lower animals like Hydra and sponges is carried out by
 (A) blood. (B) water.
 (C) air. (D) haemoglobin.
55. In plants, gas exchange takes place through
 (A) wood. (B) stomata.
 (C) root. (D) fruit.
61. 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
 (C) 6, 3, 2, 4, 5, 1 (D) 3, 5, 2, 6, 4, 1
62. Find which one word can be made from the letters of the given word.
MEASUREMENT
 (A) MASTER (B) MANTLE
 (C) SUMMIT (D) ASSURE

Directions (56 to 68) : Find the missing numbers :

56. 16, 19, 22, 25, ?
 (A) 27 (B) 28
 (C) 29 (D) 25
57. 2, 5, 10, 17, ?
 (A) 25 (B) 26
 (C) 22 (D) 24
58. 8, 11, 15, 22, 33, 51, ?, 127, 203
 (A) 80 (B) 53
 (C) 58 (D) 69
59. If the following words are arranged as found in the dictionary, then what will be the fourth letter from the left in the last word ?
INTIMATION , INFORMATION , INTEREST, INTERROGATION , INSTIGATION
 (A) R (B) O
 (C) T (D) I
60. Which letter is midway between 22nd letter from the left and 21st letter from the right ?
 (A) L (B) M
 (C) O (D) None of these
63. 
 (A) 96 (B) 81
 (C) 100 (D) 169
64.

5		?
	39	
13		8

 (A) 40 (B) 52
 (C) 65 (D) 75
65. If **PINK** is written as **N G L I** how will **IRON** be written ?
 (A) G P M L (B) K M P L
 (C) G M P L (D) K P M L
66. If in any code language **NATIONAL** is written as **MZGRLMZO** than how is **JAIPUR** written in that language
 (A) QRZKFI (B) QZRKFI
 (C) QZRFKI (D) QZRIFK

(Space For Rough Work)

67. 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

68. At my house I am facing West, then I turn left and go 10 m, then I turn 90° anticlockwise and 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) East (B) West
(C) North (D) South

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



- (A) 5 (B) 6
(C) 8 (D) 10

70. 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.	C	B	A	B	B	C	D	A	D	A	C	D	B	D	C
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	A	A	B	D	B	A	D	C	C	A	A	D	C	A	B
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	A	A	C	A	C	A	A	C	B	B	B	C	A	B	C
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	A	C	A	C	D	A	C	B	B	B	B	B	A	D	D
Ques.	61	62	63	64	65	66	67	68	69	70					
Ans.	D	A	C	B	A	B	C	D	D	A					