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SAMPLE TEST PAPER

ResoNET-2021

(Resonance National Entrance Test for Admission in PCCP Classroom Contact Programmes-PCCPs)

FOR STUDENTS MOVING IN CLASS- V_IN 2021-2022
(PRESENTLY STUDYING IN CLASS – IV_IN 2020-2021)

COURSE NAME : PRIDE   **COURSE CODE : PU**

Duration: 1½ Hours | Max. Marks: 210

Name : _____   Application Form Number : _____

Please read the next & last page of this booklet for the instructions.

IMPORTANT INSTRUCTIONS

GENERAL INSTRUCTIONS

1. This booklet is your Question Paper.
2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form are not allowed to be used.
3. Write your **Name** & **Application Form Number** in the space provided in the first page of this booklet.
4. 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.
5. No query related to question paper of any type is to be put to the invigilator.

INSTRUCTIONS FOR OPTICAL RESPONSE SHEET (ORS)

➢ Darken the appropriate bubbles on the original by applying sufficient pressure.
➢ The original is machine-gradable and will be collected by the invigilator at the end of the examination.
➢ Do not tamper with or mutilate the ORS.
➢ Write your name, Application form number and the name of the examination centre and sign with pen in the space provided for this purpose on the original. **Do not write any of these details anywhere else**. Darken the appropriate bubble under each digit of your roll number.
➢ Before answering the paper, fill up the required details in the blank space provided in the Objective Response Sheet (ORS).
➢ Do not forget to mention your paper code and **Application Form Number** neatly and clearly in the blank space provided in the Objective Response Sheet (ORS) / Answer Sheet.
➢ Use a **BLACK BALL POINT** to darken the bubbles in the upper sheet.
➢ Darken the bubble **COMPLETELY.**
➢ Darken the bubble **ONLY** if you are sure of the answer.
➢ The correct way of darkening a bubble is as shown here : ●
➢ There is **NO** way to erase or "un-darkened bubble.
➢ The marking scheme given at the beginning of each section gives details of how darkened and **not darkened** bubbles are evaluated.
   Marks distribution of questions is as follows.

Reso NET 2021-22

S.No.	Subject	Nature of Questions	Marks to be awarded			
			No. of Questions	Correct	Wrong	Total
1 to 25	PART-I (Maths)	Single Choice Questions (SCQ)	25	3	0	75
26 to 35	PART-II (Physics)	Single Choice Questions (SCQ)	10	3	0	30
36 to 45	PART-III (Chemistry)	Single Choice Questions (SCQ)	10	3	0	30
46 to 55	PART-IV (Biology)	Single Choice Questions (SCQ)	10	3	0	30
56 to 70	PART-V (Mental Ability)	Single Choice Questions (SCQ)	15	3	0	45
		Total	70			210

Zero marks '0' If none of the options is chosen (i.e. the question is unanswered).

Syllabus of Class-IV_ Reso NET

MATHEMATICS

- ❖ Knowing our number
- ❖ Factors and multiples
- ❖ Decimals
- ❖ Money
- ❖ Operation on large numbers
- ❖ Fractions
- ❖ Time

PHYSICS

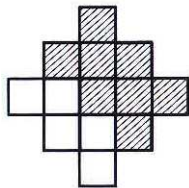- ❖ Force, Work and Energy
- ❖ Measurement
- ❖ Our Universe

CHEMISTRY

- ❖ Rocks, Soils & Minerals
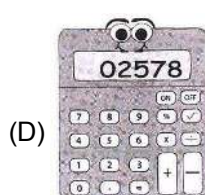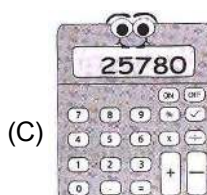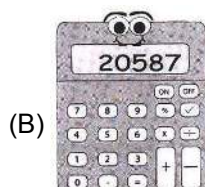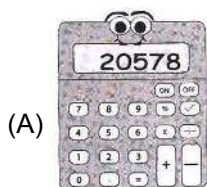- ❖ Matter and Materials

BIOLOGY

- ❖ Living things
- ❖ Sanitation and diseases
- ❖ Our body
- ❖ Clothing

MENTAL ABILITY

- ❖ Plying Alphabet
- ❖ Missing term in figures
- ❖ Operation on numbers
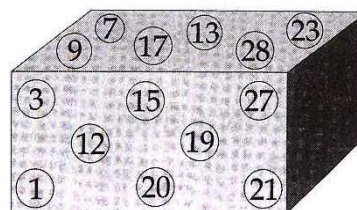- ❖ Number series
- ❖ Alphabet series

1. 1 more than _____ is 67500 :
(A) 67499   (B) 6749
(C) 67490   (D) 67501

2. The number ____ is the least odd prime number.
(A) 0   (B) 3
(C) 2   (D) 1

3. The fraction shown by the unshaded area is :

(A) $\dfrac{7}{13}$ (B) $\dfrac{6}{13}$

(C) $\dfrac{5}{13}$ (D) $\dfrac{8}{13}$

4. The place value of 4 in 2,98,467 is :
(A) 4000   (B) 4
(C) 400   (D) 467

5. _____ is the successor of 49999
(A) 5000   (B) 49998
(C) 50000   (D) 59999

6. The smallest 5-digit number among these is :
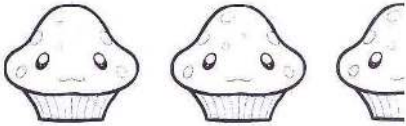

7. Addition of smallest 2 digit number and largest 2 digit number
(A) 109   (B) 110
(C) 111   (D) 190

8. Which of the following is in ascending order:
(A) 345 , 593 , 409 , 625 ,802 ,31
(B) 31 , 345 , 409, 593 , 625 ,802
(C) 31 , 345 , 409, 593 , 802 , 625
(D) 345 ,31 , 409, 593 , 802 , 625

9. Using the digits 9, 6, 0, 3 only once, the greatest number is
(A) 9630   (B) 9603
(C) 6930   (D) None of these

10. Using the digits 0, 6, 3, 5 only once, the smallest number is
(A) 3056   (B) 5603
(C) 6530   (D) None of these

11. 192 x 399 x 100 x 0 =
(A) 39900 x 192   (B) 39090
(C) 0   (D) None of these

12. If remainder is zero, dividend is equal to
(A) divisor + quotient   (B) divisor - quotient
(C) divisor x quotient   (D) None of these

13. The sum of all prime numbers from 1 to 25 is:
(A) 111   (B) 99
(C) 101   (D) 100

Direction (14-18) : Observe the numbers below and use them to answer the following questions .

14. The number of prime numbers is :
(A) 5   (B) 7
(C) 6   (D) less than 4

15. The number of prime numbers between 15 and 20 is :
(A) 1   (B) 2
(C) 3   (D) 4

Space For Rough Work

16. The number of composite numbers is :
(A) 5   (B) 7
(C) 6   (D) less than 4

17. The sum of the smallest prime number and largest two digits composite number is :
(A) 31   (B) 30
(C) 101   (D) 32

18. The sum of the smallest prime number and smallest composite number is :
(A) 5   (B) 4
(C) 7   (D) 6

19. Find the smallest fraction out of :

$$\frac{4}{5}, \frac{4}{9}, \frac{4}{7}, \frac{4}{11}$$

(A) $\frac{4}{5}$ (B) $\frac{4}{9}$

(C) $\frac{4}{7}$ (D) $\frac{4}{11}$

20. The fraction of muffins shown is

(A) $\frac{6}{2}$ (B) $3\frac{1}{2}$

(C) $2\frac{1}{2}$ (D) $\frac{7}{2}$

21. The LCM of 18, 45, 54, 60 is
(A) 270   (B) 540
(C) 1080   (D) 900

22. The number 24 has _____ factors.
(A) 2   (B) 4
(C) 6   (D) 8

23. The given collection is divided into 3 equal parts. Encircled portion represents

(A) one-third   (B) two-third
(C) one-fourth   (D) None of these

24. Subtract : 8.309 and 2.853
(A) 5.453   (B) 5.456
(C) 5.444   (D) 5.463

25. Subtract :14.06 0 and 8.293
(A) 5.767   (B) 5.777
(C) 5.676   (D) 6.474

26. In India Tea plants are grown in
(A) Assam   (B) Darjeeling
(C) Kerala   (D) Both A and B

27. Cactus and prickly pear are _____ plants
(A) Desert   (B) Masshy
(C) Evergreen   (D) Aquatic

28. Eagle and Vulture are
(A) scavangers   (B) Decomposers
(C) Herbivores   (D) Parasites

29. _____ are fixed aqatic plants
(A) Water lily   (B) Lotus
(C) Duckword   (D) Both A & B

30. The green colour of the leaves is due to the presence of :
(A) Stomata   (B) Main vein
(C) Chlorophyll   (D) Photosynthesis

31. Which of the following is a non-green plant ?
(A) Pine   (B) Babul
(C) Coleus   (D) Mould

32. The baby of cockroach is called :
(A) nymph   (B) caterpiller
(C) tadpole   (D) maggot

33. The eggs of frog hatch into :
(A) nymph   (B) larva
(C) tadpole   (D) caterpillar

34. Watering and manuring are necessary for the growth of :
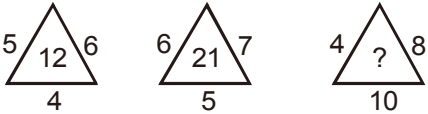(A) animals   (B) crops
(C) insects   (D) wildlife

Space For Rough Work

35. Plants which trap and eat insects are called :
(A) aquatic plants   (B) mangrove plants
(C) insectivorous plants (D) none of these

36. Energy giving foods are rich in :
(A) vitamins
(B) proteins
(C) carbohydrates and fats
(D) vitamins and minerals

37. Plants give us
(A) fibres   (B) foods
(C) oxygen   (D) all of these

38. Part of seed that contains food for the baby plant :
(A) seed leaves   (B) germination
(C) seed coat   (D) spores

39. Snakes move with help of
(A) legs   (B) scales
(C) limbs   (D) wriggling movement

40. The percentage of nitrogen gas in the air is :
(A) 78%   (B) 69%
(C) 67%   (D) 85%

41. Oceans contain _____ of earth's water :
(A) 98%   (B) 97%
(C) 95%   (D) 99%

42. Deficiency of this vitamin in the diet causes Beri-Beri :
(A) vitamin A   (B) vitamin B
(C) vitamin C   (D) vitamin D

43. A liquid in which a solid dissolves
(A) solution   (B) solute
(C) solvent   (D) all of these

44. Molecules are made up of
(A) neutrons   (B) protons
(C) electrons   (D) atoms

45. Bottle opener and wheel barrow are examples of _____ lever
(A) first order   (B) second order
(C) third order   (D) pulley

46. A _____ is a double inclined plane :
(A) Screw   (B) Wedge
(C) Wheel & axle   (D) None of these

47. The meaning of green light in traffic signals :
(A) Stop   (B) Ready
(C) Go   (D) More sidewise

48. The earth completes one revolution in :
(A) 28 days   (B) 365 1/4 day
(C) 24 hours   (D) 30 days

49. Changes in seasons are caused by :
(A) Rotation of earth
(B) Revolution of earth
(C) Revolution of sun
(D) None of these

50. The bottom layer of the soil is called :
(A) bed rock   (B) subsoil
(C) loamy soil   (D) None of these

51. The capacity to do work is called :
(A) Friction   (B) Force
(C) Energy   (D) None of these

52. Which is the chief source of energy ?
(A) Heat   (B) Sun
(C) Electricity   (D) None of these

Space For Rough Work

53. Common salt can be obtained from sea water by the process of :
(A) Filtration (B) Sedimentation
(C) Evaporation (D) None of these

54. The change of water vapour into water by cooling is called :
(A) filtration (B) evaporation
(C) condensation (D) sedimentation

55. Jim Corbett National Park is in :
(A) Uttaranchal Pradesh
(B) Assam
(C) Bihar
(D) Madhya Pradesh

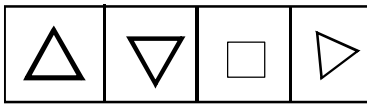**Direction (56 to 60) : Find the missing term.**

56. 1, 3, 5, 7, 9, _
(A) 13 (B) 15
(C) 17 (D) 11

57. 2, 4, 6, 8, ?
(A) 9 (B) 10
(C) 11 (D) 13

58. A, C, ?, G, I
(A) D (B) E
(C) F (D) H

59. A, H, N, S, W, ?
(A) A (B) Y
(C) B (D) Z

60.

(A) 14 (B) 22
(C) 32 (D) 320

61. Solve it.
(3 × 15 + 19) ÷ 8 – 6 = ?
(A) 8 (B) 4
(C) 2 (D) –1

62. Arrange in alphabetical order and find which word comes in the first ?
Seldom, Second, Section
(A) Seldom (B) Second
(C) Section (D) None of These

63. From his house, Raju went 5 kms to the North. Then he turned West and covered 4 kms to reach his school. find the total distance covered by raju from his house to school.
(A) 5 kms (B) 9 kms
(C) 4 kms (D) 10 kms

Direction : (64) Find the mirror image of given word.

64. VKA

Mirror

(A) ꓘVA (B) VꓘA
(C) AꓘV (D) VKA

Direction : (65) Find the water image of given figure.

65.

(X)

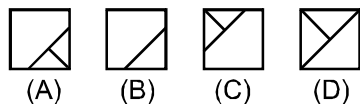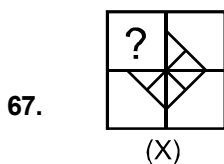(A) (B) (C) (D)

Space For Rough Work

66. How many square are there in the following figure

(A) 3   (B) 5
(C) 4   (D) 2

Directions : (67) Select a figure from the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.

67.

(X)

(A)   (B)   (C)   (D)

Direction : (68) In the following question, choose the words that show the same relationship as given in the question.
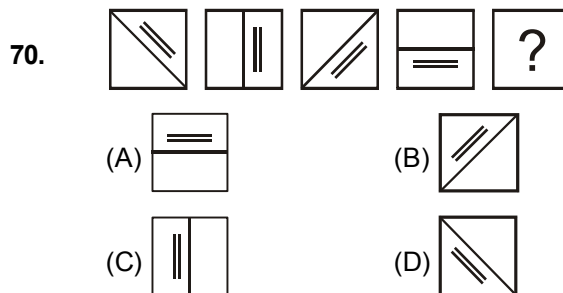
68. **'Good'** is related to **'Bad'** in the same way as **'Roof'** is related to:

(A) Wall   (B) Pillar
(C) Terrace   (D) Floor

Direction : (69) In the following question, three out of the four alternatives are same in a certain way and so form a group. Find the odd one that does not belong to the group.

69. (A) Camel   (B) Goat
(C) Cow   (D) Dog

Direction : (70) In the following questions, some figures are given in a sequence. Find out the figure from the alternatives, which will come in place of the question mark to continue the sequence.

70.

(A)   (B)

(C)   (D)

ANSWER KEY

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