

RAISE 2020

(Reynott Academics and Intelligence Scholarship Examination)

SAMPLE PAPER

Class - 7th

Syllabus of the Test : Science & Mathematics of Class 6th

GENERAL INSTRUCTIONS :

1. All questions are compulsory.
2. Blank paper, clipboard, log tables, calculators, cellular phones and electronic gadgets in any form are not allowed inside the examination hall.
3. Use only Black/Blue Ball Pen for filling the OMR. Do not use Gel/ Ink/ Felt pen as it might smudge the OMR.
4. For each right answer you will be **awarded 4 marks** if you darken the bubble corresponding to the correct answer and zero marks if no bubble is darkened. In case of bubbling of incorrect answer, **NO NEGATIVE MARK** will be awarded.

SECTION-A (PHYSICS)

1. The distance between Delhi and Mumbai is usually expressed in units of
(A) decametre (B) metre
(C) centimetre (D) kilometre
2. Paheli moves on a straight road from point A to point C. She takes 20 minutes to cover a certain distance AB and 30 minutes to cover the rest of distance BC. She then turns back and takes 30 minutes to cover the distance CB and 20 minutes to cover the rest of the distance to her starting point. She makes 5 rounds on the road the same way. Paheli concludes that her motion is
(A) only rectilinear motion. (B) only periodic motion.
(C) rectilinear and periodic both. (D) neither rectilinear nor periodic.
3. Which of the following is/are not always necessary to observe a shadow?
(A) Sun (B) Screen
(C) Source of light (D) Opaque object
4. Which of the following can never form a circular shadow?
(A) A ball (B) A flat disc
(C) A shoe box (D) An ice cream cone
5. Filament of a torch bulb is
(A) a metal case (B) metal tip at the centre of the base
(C) two thick wires (D) a thin wire
6. Paheli is running short of connecting wires. To complete an electric circuit, she may use a
(A) glass bangle (B) thick thread
(C) rubber pipe. (D) steel spoon

7. A bar magnet is immersed in a heap of iron filings and pulled out. The amount of iron filling clinging to the
- (A) North pole is almost equal to the south pole (B) North pole is much more than the south pole
(C) North pole is much less than the south pole (D) Magnet will be same all along its length

SECTION-B (CHEMISTRY)

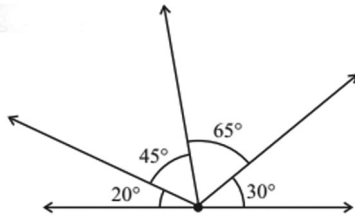
8. Which of the following is an example of periodic change?
- (A) Eruption of volcano (B) Heart beat
(C) A car accident (D) Land slide
9. Changes in which heat is liberated are called _____.
- (A) Exothermic changes (B) Endothermic changes
(C) Rapid changes (D) None of these
10. Which of the following is a desirable change?
- (A) Burning of house (B) Floods
(C) Landslides (D) Burning of cooking gas
11. Which of the following is a reversible change?
- (A) Curdling of milk (B) Ripening of fruits
(C) Melting of ice (D) Burning of wood
12. The method used to separate sand and iron powder is -
- (A) Magnetic separation (B) Winnowing
(C) Handpicking (D) Threshing
13. The technique that separates a liquid from an insoluble solid by carefully pouring off the liquid is called _____.
- (A) Evaporation (B) Decantation
(C) Filtration (D) Distillation
14. The separation technique used to separate a solid-solid mixture is _____.
- (A) Decantation (B) Evaporation
(C) Filtration (D) Handpicking

SECTION-C (BIOLOGY)

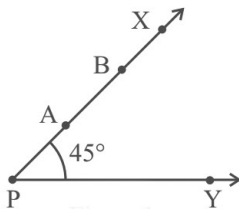
15. Honeybee makes honey from
- (A) pollen (B) petals
(C) nectar (D) bud
16. Which of the following sources of protein is different from others?
- (A) Peas (B) Gram
(C) Soyabean (D) Cottage cheese (paneer)
17. Which of the following is not the primary function of stem?
- (A) Conduction of water (B) Photosynthesis
(C) Formation of branches (D) Bears flowers and fruits
18. Which of the following is not a correct match?
- (A) Petiole : attaches leaf to stem (B) Lamina : green flat part of leaf
(C) Margin : gives shape to the leaf (D) Veins : transpiration
19. Which of the following joints is immovable?
- (A) Shoulder and arm (B) Knee and joint
(C) Upper jaw and skull (D) Lower jaw and upper jaw
20. Which of the following organisms does not have both muscles and skeleton for movement?
- (A) dog (B) snail
(C) earthworm (D) human being

SECTION-D (MATHEMATICS)

21. Number of whole numbers between 38 and 68 is
 (A) 31 (B) 30
 (C) 29 (D) 28
22. The largest 5-digit number having three different digits is
 (A) 98978 (B) 99897
 (C) 99987 (D) 98799
23. Keeping the place of 6 in the number 6350947 same, the smallest number obtained by rearranging other digits is
 (A) 6975430 (B) 6043579
 (C) 6034579 (D) 6034759
24. The number of diagonals in a septagon is
 (A) 21 (B) 42
 (C) 7 (D) 14
25. The number of obtuse angles in figure is



- (A) 2 (B) 3
 (C) 4 (D) 5
26. In figure, if point A is shifted to point B along the ray PX such that $PB = 2PA$, then the measure of $\angle BPY$ is



- (A) greater than 45° (B) 45°
 (C) less than 45° (D) 90°
27. The predecessor of the integer -1 is
 (A) 0 (B) 2
 (C) -2 (D) 1
28. In which of the following pairs of integers, the first integer is not on the left of the other integer on the number line?
 (A) $(-1, 10)$ (B) $(-3, -5)$
 (C) $(-5, -3)$ (D) $(-6, 0)$
29. The least integer lying between -10 and -15 is
 (A) -10 (B) -11
 (C) -15 (D) -14

30. The fraction which is not equal to $\frac{4}{5}$ is

(A) $\frac{40}{50}$

(B) $\frac{12}{15}$

(C) $\frac{16}{20}$

(D) $\frac{9}{15}$

31. Sum of $\frac{4}{17}$ and $\frac{15}{17}$ is

(A) $\frac{19}{17}$

(B) $\frac{11}{17}$

(C) $\frac{19}{34}$

(D) $\frac{2}{17}$

32. 0.7499 lies between

(A) 0.7 and 0.74

(B) 0.75 and 0.79

(C) 0.749 and 0.75

(D) 0.74992 and 0.75

33. Using tally marks, which one of the following represents the number eight:

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

34. The choices of the fruits of 42 students in a class are as follows:

A, O, B, M, A, G, B, G, A, G,

B, M, A, G, M, A, B, G, M, B,

A, O, M, O, G, B, O, M, G, A,

A, B, M, O, M, G, B, A, M, O, M, O,

where A, B, G, M and O stand for the fruits Apple, Banana, Grapes, Mango and Orange respectively.

Which two fruits are liked by an equal number of students?

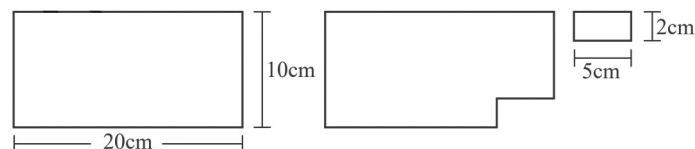
(A) A and M

(B) M and B

(C) B and O

(D) B and G

35. Length and breadth of a rectangular sheet of paper are 20cm and 10cm, respectively. A rectangular piece is cut from the sheet as shown in figure. Which of the following statements is correct for the remaining sheet?



(A) Perimeter remains same but area changes

(B) Area remains the same but perimeter changes

(C) Both area and perimeter are changing

(D) Both area and perimeter remain the same

SECTION-E (MENTAL ABILITY)

Directions (Q.36 to 38) : In each of the following questions, choose the missing term out of the given alternatives.

Reference :

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

36. AZ, CX, FU, ...
 (A) IR (B) IV
 (C) JQ (D) KP
37. CE, GI, KM, OQ,
 (A) TW (B) TV
 (C) SU (D) RT
38. BDF, CFI, DHL, ...
 (A) CJM (B) EIM
 (C) EJO (D) EMI

Direction (Q.39 to 42) : Complete the given series.

39. AZ, CX, FU,
 (A) IR (B) IV
 (C) JQ (D) KP
40. OTE, PUF, QVG, RWH,
 (A) SYJ (B) TXI
 (C) SXJ (D) SXI
41. BEH, KNQ, TWZ,
 (A) IJL (B) CFI
 (C) BDF (D) ADG
42. If + means -, - means ×, ÷ means + and × means ÷, then $15 - 3 + 10 \times 5 \div 5 = ?$
 (A) 5 (B) 22
 (C) 48 (D) 52

Directions : In the following questions, three terms are alike in some way and so form a group while one is different than others. Identify the term that does not belong to that group.

43. (A) Pen (B) Pencil
 (C) Ball pen (D) Eraser
44. (A) Delhi (B) Lucknow
 (C) Hyderabad (D) Jaipur
45. At what time between 4 and 5 O'clock will the hands of a watch point in opposite directions?
 (A) 45 minute past 4 (B) 40 minute past 4
 (C) $50\frac{4}{11}$ minute past 4 (D) $54\frac{6}{11}$ minute past 4





Branch Office : 265-A, Lajpat Nagar, Opp. Mission Hospital, Jalandhar

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SAMPLE PAPER

Class - 7th

ANSWER KEY

- | | | | | |
|--------|---------|---------|---------|---------|
| 1. (D) | 10. (D) | 19. (C) | 28. (B) | 37. (C) |
| 2. (C) | 11. (C) | 20. (C) | 29. (D) | 38. (C) |
| 3. (A) | 12. (A) | 21. (D) | 30. (D) | 39. (C) |
| 4. (C) | 13. (B) | 22. (C) | 31. (A) | 40. (D) |
| 5. (D) | 14. (D) | 23. (C) | 32. (C) | 41. (B) |
| 6. (D) | 15. (C) | 24. (D) | 33. (D) | 42. (D) |
| 7. (A) | 16. (D) | 25. (C) | 34. (D) | 43. (A) |
| 8. (B) | 17. (B) | 26. (B) | 35. (A) | 44. (C) |
| 9. (A) | 18. (D) | 27. (C) | 36. (C) | 45. (D) |

