

CLASS

**5th to 6th
Moving**

CODE

A



MODULUS
SMART SCHOOL

PRE-FOUNDATION | CUET | NDA | CLAT | IPMAT

Dream

Believe

Achieve

Intelli-Mind Scholarship Exam

MAXIMUM TIME - 1:30 Hrs.

MAXIMUM MARKS: 60

GENERAL INSTRUCTIONS for The Test :-

- The question paper consists of 3 sections (Section -A contains Science, Section-B contains Mathematics, Section-C contains English).
- This Question Paper contains a total of 60 questions.
- Write the correct answer for each question in your answer sheet.
- All questions are **single correct type questions**, each of these questions has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.
- For each question, you will be awarded **4 marks** if you have darkened only the bubble corresponding to the correct answer.
- Zero mark if no bubble is darkened.
- In all other cases, minus one (**-1**) mark will be awarded.

Student's Signature

Invigilator's Signature

Section – A (CHEMISTRY)

1. Diamond is formed at.....
(a) High temperature and high pressure
(b) high temperature and low pressure
(c) Low temperature and high pressure
(d) low temperature and low pressure
2. Vermi - Composting involves the addition of
(a) Red-worm
(b) Chemicals
(c) Pesticides
(d) Wastes of plants only
3. Clothes dry faster during summer because of:
(a) Evaporation
(b) Sublimation
(c) Boiling
(d) Melting
4. Consider the following statements about rocks:
(a) Shale becomes slate through metamorphosis.
(b) Shale is converted to slate when it is subjected to tremendous pressure and high temperature.
Which of the statements given above is/are correct?
(a) Only (a)
(b) Only (b)
(c) Both (a) and (b)
(d) Neither (a) nor (b)
5. The elements that occur most frequently in the earth's crust are
(a) Carbon and oxygen
(b) Hydrogen and Oxygen
(c) Silicon and Oxygen
(d) Magnesium and Iron
6. Which of the following is not an igneous rock?
(a) Basalt
(b) Granite
(c) Sandstone
(d) Pumice
7. Molten rock inside the earth is called:
(a) Magma
(b) Subsoil
(c) Topsoil
(d) None of these

Physics

8. A lever is a simple machine that is free to move about a point called: (**simple machines**)
(a) Effort.
(b) Load.
(c) Fulcrum.
(d) Wheel.
9. If the distance between fulcrum and effort is more in a first order type lever, then: (**simple machines**)
(a) load can be lifted with less effort.
(b) Load has to be lifted with greater effort
(c) load should be equal to effort
(d) load should always be less than effort
10. Material that does not allow any light to pass through, it is called:-
(a) Transparent
(b) Opaque
(c) Translucent
(d) All of these
11. Sources of energy that can use again and again will never run out?

- (a) Renewable Energy
(c) Chemical energy
- (b) Non-Renewable energy
(d) none of these

12. What kind of sounds do you hear for entertainment?

- (a) Music
(c) sharp sounds
- (b) noise
(d) loud sounds

13. Which energy is used by plants?

- (a) Light
(c) Heat
- (b) Chemical
(d) none of these

14. Which is non-luminous object?

- (a) Wall
(c) Stars
- (b) LED
(d) All of these

Biology

15. A New Plant Can Be Grown From

- (a) Top of carrot
(c) Piece of potato
- (b) roots of Dahlia
(d) all of these

16. When you chew bread for a while it would taste?

- (a) Sweet
(c) Sour
- (b) Bitter
(d) No taste

17. How many following factors are not included in germination of seed?

- (a) Oxygen
(c) Temperature
- (b) Humidity
(d) Ice

18. Taste buds are present on

- (a) Stomach
(c) Lips
- (b) Tongue
(d) Liver

19. Seed germinate to produce

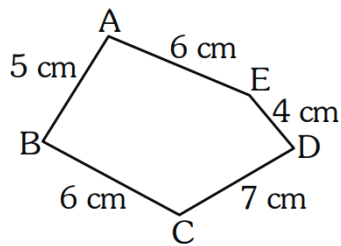
- (a) New plant
(c) Style
- (b) Stigma
(d) Ovary

20. Which vitamins are fat-soluble vitamins?

- (a) Vitamin a
(c) Vitamin c
- (b) vitamin b
(d) all of these

Section – B (Mathamatic)

21. Find the perimeter of the following figure.

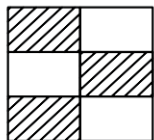


- (1) 23cm (2) 25cm (c) 28cm (d) None of these

22. Which figure can be made using 3 matchsticks (without breaking the sticks)?

- (1) Square (2) Rectangle (3) Triangle (4) Circle

23. Which figure represents greater fraction by shaded part ?



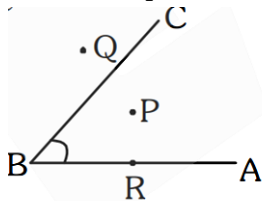
(i)



(ii)

- (1) (i) (2) (ii) (3) both are equal (4) None of these

24. Which point in interior to the angle in the following figure?



- (1) P (2) Q (3) R (4) Both P and Q

25. A pipe leaks 3.5 gallons of water each hour.

Which table represents the total amount of water leaked at the end of each hour ?

(1)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	3.5
3	3.5
4	3.5
5	3.5

(2)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	7
3	10.5
4	14
5	17.5

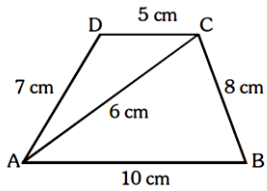
(3)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	7
3	21
4	84
5	420

(4)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	12.25
3	42.88
4	150.06
5	525.22

26. Find the perimeter of the following figure ABCD.



- (1) 30 cm (2) 36 cm (3) 42cm (4) 24cm

27. If two angles of a triangle are equal and third is unequal, then the triangle is

- (1) Isosceles triangle (2) Equilateral triangle (3) Scalene triangle (4) None of these

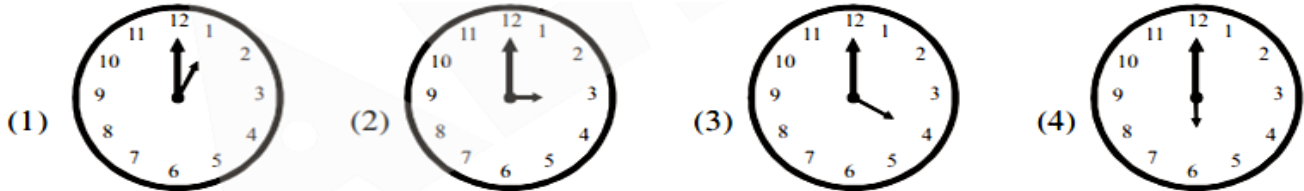
28. Mrs. Joshi will put a fence around her rectangular garden.

- The length of the garden is $9\frac{5}{6}$ yards
- The width of the garden is $5\frac{1}{4}$ yards

How many yards of fencing does Mrs. Joshi need?

- (1) $14\frac{6}{10}$ (2) $29\frac{1}{12}$ (3) $29\frac{1}{5}$ (4) $30\frac{1}{6}$

29. In which clock is the angle between the hour hand and the minute hand less than 90° ?

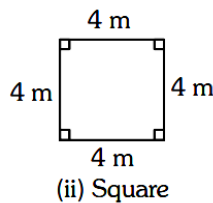
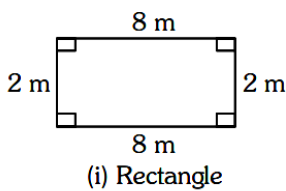


30. Solve

$$92\frac{7}{8} - 49.326 = ?$$

- (1) 40.152 (2) 43.454 (3) 43.549 (4) 57.551

31. Which has greater area ?



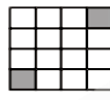
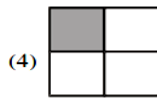
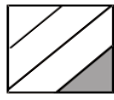
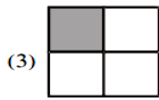
- (1) (i) (2) (ii) (3) Both are equal (4) None of these

32. In a right angled triangle, one angle is 48° . Then find the remaining angle.

- (1) 45° (2) 42° (3) 90° (4) Can't be determined

33. Which pair of figures has the same fractional area shaded gray?





34. When an arm of an angle is extended then the measure of angle

(1) Doubles

(2) Triples

(3) Remains the same

(4) None of these

35. $2 + \frac{9}{10} + \frac{9}{100} + \frac{9}{1000} + \frac{1}{1000} =$

(1) 3

(2) 2

(3) 2.999

(4) 2.991

36. If 5 can hold 25 litres of water, then 2 such can hold _____ litres of water.

(1) 5L

(2) 10L

(3) 15L

(4) 20L

37. Mona spend Rs. 40 and had Rs. 10 left. What fraction of her money had she spent ?

(1) $\frac{14}{5}$

(2) $\frac{40}{5}$

(3) $\frac{4}{5}$

(4) $\frac{1}{5}$

38. Bob covered a floor with carpet.

Which unit of measure describes how much carpet he used?

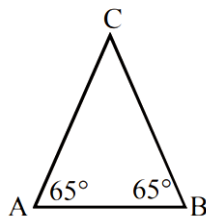
(1) Inches

(2) feet

(3) square feet

(4) cubic inches

39. Triangle ABC is shown.



What is the measure of angle C ?

(1) 50°

(2) 65°

(3) 90°

(4) 180°

40. Russell bought $2\frac{1}{8}$ pounds of turkey and $3\frac{3}{4}$ pounds of roast beef to make sandwiches. Which estimate is reasonable

for the amount of meat he bought ?

(1) 4 pounds

(2) 5 pounds

(3) 6 pounds

(4) 7 pounds

41. Heavy rains caused the water level of a lake to rise eight hundred sixty-four thousandths of a meter. Which number is equivalent to eight hundred sixty-four thousandths?

(1) 0.0864

(2) 0.864

(3) 86,400

(4) 864,000

42. Bettina has a book with 364 pages. There are 14 chapters in her book. Each chapter has the same number of pages. How many pages are in each chapter of Bettina's book ?

(1) 25

(2) 26

(3) 27

(4) 28

43. The triangular sign shown below has a height of 14 inches and a base length of 18 inches.



What is the area of this sign?

- (1) 126 square inches (2) 252 square inches
(3) 504 square inches (4) 756 square inches

44. Which two numbers have an difference of $\frac{2}{5}$?

- (1) $18\frac{2}{3}$ and $15\frac{1}{10}$ (2) $18\frac{5}{10}$ and $18\frac{1}{10}$ (3) $18\frac{1}{4}$ and $18\frac{1}{8}$ (4) $18\frac{5}{4}$ and $15\frac{1}{2}$

45. Roberto began his homework at 4:25 pm. He finished it one and a half hours later. At what time did Roberto finish his homework ?

- (1) 5:05 p.m. (2) 5:55 p.m. (3) 6:05 p.m. (4) 6:15 p.m.

46. Successor of any number n is

- (1) n (2) $n - 1$ (3) $n + 1$ (4) $n + 2$

47. Which of the following are like decimals

- (1) 1.4 and 1.04 (2) 1.37 and 1.7 (3) 2.4 and .24 (4) 1.9 and 1.2

48. Which of the following is a vulgar fraction

- (1) $\frac{8}{100}$ (2) $\frac{3}{10}$ (3) $\frac{3}{6}$ (4) $\frac{5}{10}$

49. If angle of a triangles are in ratio 1:2:3 then measure of least angle is

- (1) 80° (2) 30° (3) 60° (4) 90°

50. Product of $.3 \times .3$ is

- (1) 9 (2) 0.9 (3) 0.09 (4) 0.009

Section – C (English)

What causes the monsoon? The monsoon, which is essentially the seasonal reversal in wind direction, causes most of the rainfall received in India and some other parts of the world. The primary cause of monsoons is the difference between annual temperature trends over land and sea. The apparent position of the Sun with reference to the Earth oscillates from the Tropic of Cancer to the Tropic of Capricorn. Thus the low pressure region created by solar heating also changes latitude. The northeast and southeast trade winds converge in this low pressure zone, which is also known as the Intertropical Convergence Zone or ITCZ. This low pressure region sees continuous rise of moist wind from the sea surface to the upper layers of the atmosphere, where the cooling means the air can no longer hold so much moisture resulting in precipitation. The rainy seasons of East Asia, sub-Saharan Africa, Australia and the southern part of North America coincide with the shift of ITCZ towards these regions.

Answer the following questions by choosing correct options:

51. Monsoon is

- (a) A type of sea wave
- (b) a seasonal reversal in wind direction
- (c) very hot wind
- (d) very cold wind.

52. The meaning of the word “apparent” is-

- (a) Normal
- (b) Clearly seen
- (c) Precipitation
- (d) Not very clear

53. The major cause of monsoon is the

- (a) difference between annual temperature trends over land and sea
- (b) difference between day and night temperature
- (c) moisture in the atmosphere
- (d) None of these.

54. Low pressure region is created by

- (a) Solar heating
- (b) lunar cooling
- (c) moist wind
- (d) dry wind.

55. It rains when

- (a) moist wind goes down
- (b) dry wind meets moist wind
- (c) the air can no longer hold moisture resulting in precipitation
- (d) annual temperature goes down.

56. Read the following sentences carefully and fill in the blanks with the most suitable prepositions from the alternatives given below:

Q. He reached the station bus.

- (a) On
- (b) by
- (c) At
- (d) with

57. Fill in the blanks with correct form of verb by choosing the right answer from the given alternatives-
Rukmani three paintings last year. (Make)

- (a) has made
- (b) makes
- (c) will make
- (d) made

58. Fill in the blanks by choosing the right modals from the given alternatives:

He _____ work hard to get successful in life.

- (a) Can
- (b) Should
- (c) Must
- (d) Will

59. Fill in the blanks by choosing the right answer from the given alternatives: (Articles, No Articles)

_____ river Ganga is considered as one of _____ holy rivers of India.

- (a) X, a
- (b) the, the
- (c) The, X
- (d) X, the

60. What does 'nostalgia' mean?

- (a) Fear of the future
- (b) desire for change
- (c) Longing for the past
- (d) confusion about time