

ADITYA TALENT SCHOOL

X CLASS

DAILY EXAM- 5

Dt :29-04-2020

MATHEMATICS - 2 (25 MARKS)

SECTION - I

$\frac{1}{2}$ mark questions.

$20 \times \frac{1}{2} = 10$

1. The probability of getting head when a fair coin is tossed is
2. If two unbiased dices are rolled simultaneously, then the total number of possible outcomes is
3. If one card is drawn from a pack of 52 cards, then the probability of getting an ace card is
4. The sum of the probabilities of all the possible outcomes in a random experiment is
5. If E is an event in a random experiment such that $P(E) = 0.3$, then $P(\text{not } E) = \dots\dots\dots$
6. The probability of an event lies between and including them.
7. The definition of probability was given by
8. If a die is thrown, then the probability of getting a number greater than 4 is
9. If one card is drawn from a well-shuffled deck of 52 cards, then the probability of getting a face card is
10. The probability of a certain event is
11. If the mode of the data 64, 60, 48, x , 43, 48, 43, 34 is 43, then $x + 3 = \dots\dots\dots$
12. The mean of the first ' n ' natural numbers is 15, then $n = \dots\dots\dots$
13. The class mark of the class 10 -25 is
14. If the mean of the data 12,15, x , 19, 25, 44 is 25, then $x = \dots\dots\dots$
15. If the total number of terms of a data is n where n is odd, then observation is the median when they are in order.
16. If the classes of a frequency table are 1-10, 11-20, 21-30,....., then the upper boundary of the class 11-20 is
17. The measure of central tendency that is not affected by the extreme values is
18. The term 'ogive' is derived from the word
19. The x coordinate of the point of intersection of both the ogive curves of the given data is
20. Cumulative frequencies are used to calculate the measure of central tendency

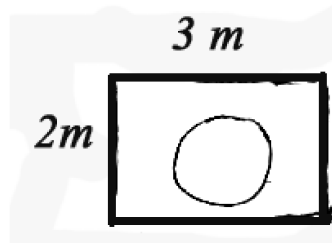
SECTION - II

1 mark questions.

$15 \times 1 = 15$

21. Define 'the probability of an event'.
22. Define 'Mutually exclusive event'.

23. Sarada and Hamida are friends. What is the probability that both will have different birthdays?
24. A bag contains lemon flavoured candies only. Malini takes out one candy without looking into the bag. What is the probability that she takes out. (i) an orange flavoured candy? (ii) a lemon flavoured candy?
25. Suppose you drop a die at random on a rectangular region shown in the figure. What is the probability that it will land inside the circle with diameter 1m?



26. A die is thrown twice. What is the probability that (i) 5 will not come up either time ? (ii) 5 will come up at least once?
27. Write any two events that are mutually exclusive and exhaustive and also equally likely when an unbiased die is rolled once.
28. Define 'mode of an ungrouped data'
29. If the frequencies of the observations 10, 20, 36, 40, 50 are respectively 1, 1, 3, 4, 1 then find the mean of the data.
30. Write the formula for mean of the data by assumed mean method and explain the terms in it.
31. Marks out of 50 obtained by 100 students in a test are given below.

Marks	20	29	28	33	42	38	43	25
No. of students	6	28	24	15	2	4	1	20

Find the median of the data.

32. Define 'less than cumulative frequency curve'.
33. Define the median of an ungrouped data.
34. For a frequency distribution, $a = 5$, $\sum f_i u_i = -13$, $\sum f_i = 25$ and $h = 1$, then find A.M.
35. If the A.M of the following data is 50, then find the value of P.

C.I	0-20	20-40	40-60	60-80	80-100
f	17	p	32	24	19

GENERAL SCIENCE - 2 (25 MARKS)

SECTION - I

$\frac{1}{2}$ mark questions.

$20 \times \frac{1}{2} = 10$

1. I'm a small thick stalked portion connecting fore brain with cerebellum and pons and hind brain. Who am i?
2. What are the special cells of pancreas that secrete insulin?
3. Auxins are plant growth hormones. Give another example.
4. Which division of autonomic nervous system decreases blood pressure and inhibits heartbeat?
5. Correct the sentence and rewrite
Abscisic acid promotes plant growth and brings about cell elongation.
6. Pickup stimuli from the following actions
Light falling in eyes, touching the leaves, root grows into the soil, leaves shrivel, Take the leg back.
7. Name the chemical that destroys dicotyledonous weeds.
8. Neurons receive nutrition from which cells?
9. From 3rd month of pregnancy embryo is called....
10. Name the male sex hormones.
11. Name the clusters of dot like structures on lower surface of fern leaf.
12. Which technique is very useful in propagating improved varieties of various flowers and fruits?
13. Give example for stolon.
14. Fluid that keeps embryo moist and protects from mechanical injury....
15. Name the phase where chromosomes are arranged on equatorial plate.
16. Who explained about fluorine in 17 71?
17. Write two measures of water conservation.
18. How many cells of present in embryo sac?
19. In vasectomy.... Is removed by surgery in males.
20. Cell fusion technique was used by Indian cytologist.....

SECTION - II

1 mark questions.

$15 \times 1 = 15$

21. What was Galen's conclusion from the following observation.
One of the patients, having suffered a blow on the neck when falling from his chariot, complained loss of feeling in the arm while still retaining normal muscular control of its movement.
22. Mention different organs involved in reflex arc in order.

23. In plants, if the direction of stimulus determines the direction of movement, it is _____ movement and if the the direction of movement is not determined by direction of stimulus it is _____ movement.
24. What is the reason for the formation of white and grey matter in the brain?
25. What is the functional region of contact between two neurons.
26. Raju and Ramu are fighting with each other . Which hormone will be secreted in both of them? Which gland secretes that?
27. What are the parts of forebrain?
28. What is? parthenogenesis?
29. Give examples of organisms which undergo fragmentation.
30. Name the parts of human female reproductive system.
31. How does the developing embryo gets nourishment?
32. What is contraception?
33. Expand ASHA.
34. What is double fertilization?
35. What are the three phases of interphase?