

MILLAT TALENT SEARCH EXAMINATION (MTSE)
ACADEMIC YEAR 2023-24

MODEL PAPER

Exam Instructions

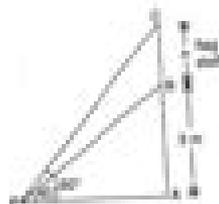
1. Time Allotted : 3:00 hrs.
2. Make sure the hall ticket number entered is same as given during the registration.
3. The Question Paper consists of 100 questions under 6 sections. Attempt all the sections.
Section A: Mathematics (80m) Section E: English (20m)
Section B: Physics (60m) Section F: Logical Reasoning (60m)
Section C: Chemistry (60m) Section G: Social Science (40m)
Section D: Biology (40m) Section H: Dersizyat (40m)
4. Marking scheme:
Correct Attempt : +4 marks
Wrong Attempt : -1 mark
5. We suggest students to avoid any guess work as every wrong attempt reduces 1 mark.

SECTION - A (MATHEMATICS)

(20 × 4 = 80M)

Directions for Question No.1 and 2:

A flag staff stands on the top of a 5 m high tower. From a point on the ground, the angle of elevation of the top of the flagstaff is 60° and from the same point, the angle of elevation of the top of the tower is 45°. Height of the flagstaff = h = BC and height of the tower = 5m = AB.



1. Height of the flagstaff is
(1) 1.73 m (2) 3.65 m (3) 73 m (4) 3.55 m
2. Distance of point P from tower is
(1) 1 m (2) 3 m (3) 4 m (4) 5 m

3. If P and Q are two points whose co-ordinates are $(at^2, 2at)$ and $\frac{a}{t^2}, \frac{2a}{t}$ respectively and S is the point $(x, 0)$, then $\frac{1}{SP} + \frac{1}{SQ}$ equal to
(1) $\frac{1}{a}$ (2) $\frac{1}{2a}$ (3) $\frac{t^2}{(t^2+1)}$ (4) $\frac{1}{t^2}$
4. The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively is:
(1) 13 (2) 65 (3) 875 (4) 1750
5. If α, β are the zeroes of the polynomial $f(x) = x^2 - p(x+1) - x$ such that $(\alpha+1)(\beta+1) = 0$, Find c .
(1) 1 (2) 0 (3) -1 (4) 2
6. The mean of 1,3,4,5,7,4 is m . The numbers 3,2,2,4,3,3,p have mean $m - 1$ and median q . Then, $p + q =$
(1) 4 (2) 5 (3) 6 (4) 7
7. Two trains of equal length are running on parallel lines in the same direction at the rate of 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds, the length of each train is:
(1) 50 m (2) 80 m (3) 72 m (4) None of these
8. If $\frac{\sin x}{1 + \cos x} + \frac{\sin x}{1 - \cos x} = 4$ and $0^\circ < x < 90^\circ$, then the value of x is equal to
(1) 10° (2) 15° (3) 30° (4) 45°
9. If $2x - 3y = 7$ and $(a+b)x - (a+b-3)y = 4a+b$ represent coincident lines, then a and b satisfy the equation
(1) $a-5b = 0$ (2) $5a + b = 0$ (3) $a-5b = 0$ (4) $5a - b = 0$
10. The length of the minute hand of a clock is 7 cm. Find the area swept by the minute hand in 5 minutes?
(1) $\frac{77}{4}$ (2) $\frac{64}{3}$ (3) $\frac{77}{2}$ (4) $\frac{67}{4}$
11. A chess board contains 64 equal squares and the area of each square is 6.25cm^2 . A border around the board is 2cm wide. Find the length of the side of chess board.
(1) 24cm (2) 36cm (3) 16cm (4) 32cm

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