



INDIAN SCHOOL AL WADI AL KABIR

First Rehearsal Examination (2023-24)

Sub: MATHEMATICS STANDARD (041)

Date: 05-12-2023

Class: X

MARKING SCHEME

Maximum marks: 80

Time: 3 hours

SECTION A

Section A consists of 20 questions of 1 mark each.

Q.1.	(B) 44.2	Q.11.	(C) (0, -11)
Q.2.	(C) $ab = 6$	Q.12.	(B) r^2
Q.3.	(D) 2: 1	Q.13.	(D) 40
Q.4.	(A) 45 minutes	Q.14.	(B) -5, 0, 7
Q.5.	(B) 45°	Q.15.	(A) 30°
Q.6.	(D) $\frac{17}{16}$	Q.16.	(C) 250 cm^2
Q.7.	(C) 50°	Q.17.	(B) $\frac{5}{12}$
Q.8.	(C) 40	Q.18.	(A) Only Anas
Q.9.	(B) 30°	Q.19.	(a) Both (A) and (R) are true and (R) is the correct explanation of (A)
Q.10.	(D) ± 3	Q.20.	(c) Assertion (A) is true but reason (R) is false.

SECTION B

Section B consists of 5 questions of 2 marks each.

Q.21.	$\tan(A + B) = \sqrt{3} \quad \therefore A + B = 60^\circ \quad \dots(1)$	$(\frac{1}{2})$
	$\tan(A - B) = \frac{1}{\sqrt{3}} \quad \therefore A - B = 30^\circ \quad \dots(2)$	$(\frac{1}{2})$
	Adding (1) & (2), we get $2A = 90^\circ \Rightarrow A = 45^\circ$	$(\frac{1}{2})$

	<p>Sub $A = 45^\circ$ in (1), we get $B = 15^\circ$</p> <p style="text-align: right;">$(\frac{1}{2})$</p> <p>OR</p> $2 \operatorname{cosec}^2 30 + x \sin^2 60 - \frac{3}{4} \tan^2 30 = 10$ $\Rightarrow 2(2)^2 + x \left(\frac{\sqrt{3}}{2}\right)^2 - \frac{3}{4} \left(\frac{1}{\sqrt{3}}\right)^2 = 10$ $\Rightarrow 2(4) + x \left(\frac{3}{4}\right) - \frac{3}{4} \left(\frac{1}{3}\right) = 10$ $\Rightarrow 8 + x \left(\frac{3}{4}\right) - \frac{1}{4} = 10$ $\Rightarrow 32 + x(3) - 1 = 40$ $\Rightarrow 3x = 9 \Rightarrow x = 3$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Q.22.	<p>Maximum value of weight which can measure the weight of the fertilizer exact number of times = HCF (69, 75)</p> $75 = 3 \times 5 \times 5$ $69 = 3 \times 23$ <p>Maximum weight = 3kg</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Q.23.	<p>$\angle PAO = \angle PBO = 90^\circ$ (angle b/w radius and tangent)</p> <p>$\angle AOB = 105^\circ$ (By angle sum property of a triangle)</p> <p>$\angle AQB = \frac{1}{2} \times 105^\circ = 52.5^\circ$ (Angle at the remaining part of the circle is half the angle subtended by the arc at the center)</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Q.24	<p>Total no. of cards = 52</p> <p>(i) $P(\text{not an ace}) = \frac{48}{52} = \frac{12}{13}$</p> <p>(ii) $P(\text{either a king or a queen}) = \frac{8}{52} = \frac{2}{13}$</p>	$(\frac{1}{2} + \frac{1}{2})$ $(\frac{1}{2} + \frac{1}{2})$

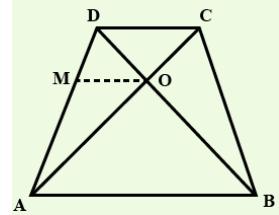
<p>Q.25.</p> <p>Angle subtended by minute hand in 20 minutes = $\frac{360^\circ}{60} \times 20 = 120^\circ$</p> <p>$r = 14$</p> <p>Area = $\frac{22}{7} \times 14 \times 14 \times \frac{120}{360}$ $= \frac{616}{3}$ or 205.33</p> <p>\therefore required area is $\frac{616}{3} \text{ cm}^2$ or 205.33 cm^2</p>	$\frac{1}{2}$ 1 $\frac{1}{2}$
<p>OR</p>	
<p>Given area of sector of circle = $54\pi \text{ cm}^2$</p> <p>Radius of circle = 36cm</p> <p>Now area of circle = $\pi r^2 \times (\frac{\theta}{360})$</p> <p>$54\pi = \frac{\theta}{360} \times \pi r^2$</p> <p>$\frac{\theta}{360} = \frac{54}{36 \times 36} \dots\dots\dots(1)$</p> <p>and length of arc = $2\pi r (\frac{\theta}{360})$</p> <p>$L = 2\pi \times 36 \times \frac{54}{36 \times 36}$</p> <p>= 9.428 cm</p>	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
<p>SECTION C</p>	
<p>Section C consists of 6 questions of 3 marks each.</p>	
<p>Q.26.</p> <p>system has infinite number of solutions</p> <p>$\therefore \frac{2}{2a} = \frac{3}{a+b} = \frac{7}{28}$</p> <p>$\Rightarrow \frac{1}{a} = \frac{1}{4} \Rightarrow a = 4$</p> <p>and $a + b = 12 \Rightarrow b = 8$</p>	1 1 1
<p>OR</p>	
<p>Solution Let the incomes be $9x$, $7x$ and expenditures be $4y$, $3y$</p> <p>ATQ, $\begin{aligned} 9x - 4y &= 2000 \\ 7x - 3y &= 2000 \end{aligned} \quad \left. \right\}$</p> <p>On solving we get, $x = 2000$</p> <p>\Rightarrow monthly incomes are ₹18000 and ₹14000</p>	1/2 1 1 1/2

<p>Q.27.</p> $ \begin{aligned} \text{LHS} &= \frac{\cot A - \cos A}{\cot A + \cos A} = \frac{\frac{\cos A}{\sin A} - \cos A}{\frac{\cos A}{\sin A} + \cos A} \\ &= \frac{1 - \sin A}{1 + \sin A} \\ &= \frac{(1 - \sin A)(1 + \sin A)}{(1 + \sin A)(1 + \sin A)} \\ &= \frac{1 - \sin^2 A}{(1 + \sin A)^2} = \frac{\cos^2 A}{(1 + \sin A)^2} \end{aligned} $	$\frac{1}{2}$ 1 1 $\frac{1}{2}$
<p>Q.28.</p> <p>Solution Let us assume that $5 + 2\sqrt{3}$ is a rational number</p> $5 + 2\sqrt{3} = \frac{p}{q}; \quad q \neq 0 \text{ and } p, q \text{ are integers}$ $\Rightarrow \sqrt{3} = \frac{p-5q}{2q}$ <p>RHS is rational but LHS is irrational</p> <p>\therefore Our assumption is wrong.</p> <p>Hence $5 + 2\sqrt{3}$ is an irrational</p>	1 1 1 $\frac{1}{2}$
<p>Q.29.</p> <p>Given : $\triangle ABC \sim \triangle PQR$</p> <p>To prove : $\frac{AB}{PQ} = \frac{AD}{PM}$</p> <p>It is given that $\triangle ABC \sim \triangle PQR$</p> $\Rightarrow \frac{AB}{PQ} = \frac{BC}{QR} = \frac{AC}{PR}$ <p>$\angle A = \angle P, \angle B = \angle Q, \angle C = \angle R..$</p> $ \begin{aligned} \frac{AB}{PQ} &= \frac{2BD}{2QM} = \frac{AC}{PR} \\ \frac{AB}{PQ} &= \frac{BD}{QM} = \frac{AC}{PR} \dots\dots(1) \end{aligned} $ <p>Now in $\triangle ABD$ and $\triangle PQM$</p> $\frac{AB}{PQ} = \frac{BP}{QM} \dots\dots[\text{from (1)}]$ $\angle B = \angle Q \dots\dots[\text{from (A)}]$ $\Rightarrow \triangle ABD \sim \triangle PQM \text{ [By SAS]}$ $ \frac{AB}{PQ} = \frac{AD}{PM} $ <p>(corresponding parts of similar triangles)</p>	<p>Given, to prove, fig</p> <p>1m</p> $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

OR

Given, to prove, construction fig

1m



Draw a line OM || AB.

∴ By using basic proportionality theorem, we have

$$\Rightarrow \frac{DM}{MA} = \frac{DO}{OB}$$

Taking reciprocals on both sides,

$$\Rightarrow \frac{AM}{DM} = \frac{OB}{OD} \quad \text{--- (1)}$$

It is given that,

$$\Rightarrow \frac{AO}{BO} = \frac{CO}{DO}$$

$$\Rightarrow \frac{AO}{CO} = \frac{OB}{OD} \quad \text{--- (2)}$$

Comparing (1) and (2), we get

$$\Rightarrow \frac{AM}{DM} = \frac{OA}{OC}$$

∴ By using converse of basic proportionality theorem, we have

OM || DC

But OM || AB [by construction]

⇒ AB || DC

⇒ One pair of opposite sides of quadrilateral is parallel.

∴ ABCD is a trapezium.

½

½

½

½

Q.30.

Classes	f_I	c.f.
0 - 100	15	15
100 - 200	17	32
200 - 300	f	$32 + f$
300 - 400	12	$44 + f$
400 - 500	9	$53 + f$
500 - 600	5	$58 + f$
600 - 700	2	$60 + f$

Table
1m

$$N = 60 + f$$

$$\Rightarrow \frac{N}{2} = \frac{60+f}{2}$$

Median = 240 which lies between class 200 - 300

Median class = 200 - 300

$$\text{Median} = l + \left[\frac{\frac{N}{2} - c.f.}{f} \right] \times h$$

$$240 = 200 + \left[\frac{\frac{60+f}{2} - 32}{f} \right] \times 100$$

$$40 = \left[\frac{\frac{60+f}{2} - 32}{f} \right] \times 100$$

$$40 = \frac{60+f-64}{f} \times 100$$

$$40 = \frac{-4}{f} \times 100$$

$$40 = -400/f$$

$$40 = 40/f$$

$$f = 10$$

 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

Q.31.

$$p(x) = 2x^2 + 5x + k$$

$$\text{SOZ} = \alpha + \beta = \frac{-5}{2}$$

$$\text{POZ} = \alpha\beta = \frac{k}{2}$$

$$\alpha^2 + \beta^2 + \alpha\beta = \frac{21}{4}$$

$$(\alpha + \beta)^2 - 2\alpha\beta + \alpha\beta = \frac{21}{4}$$

$$\left(\frac{-5}{2} \right)^2 - \alpha\beta = \frac{21}{4}$$

$$\frac{25}{4} - \frac{21}{4} = \alpha\beta$$

$$\alpha\beta = 1$$

$$\therefore 1 = \frac{k}{2} \Rightarrow k = 2$$

1

 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

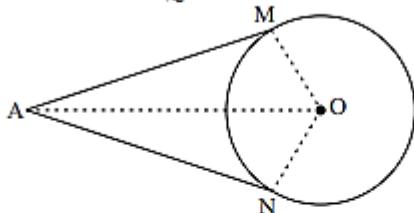
SECTION D

Section D consists of 4 questions of 5 marks each.

Q.32.

Solution : Given, Tangents AM and AN are drawn from point A to a circle with centre O .

To prove : $AM = AN$



Construction : Join OM , ON and OA

Proof : Since AM is a tangent at M and OM is radius

$$\therefore OM \perp AM$$

$$\text{Similarly, } ON \perp AN$$

Now, in $\triangle OMA$ and $\triangle ONA$.

$$OM = ON \quad (\text{radii of same circle})$$

$$OA = OA \quad (\text{common})$$

$$\angle OMA = \angle ONA = 90^\circ$$

$$\therefore \triangle OMA \cong \triangle ONA \quad (\text{By RHS congruence})$$

Hence, $AM = AN$ (By cpct) **Hence Proved.**

}

1 $\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$

$PA = PB$; $CA = CE$; $DE = DB$ [Tangents to a circle]

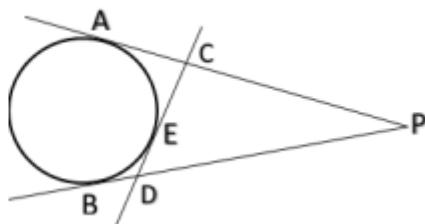
$$\text{Perimeter of } \triangle PCD = PC + CD + PD$$

$$= PC + CE + ED + PD$$

$$= PC + CA + BD + PD$$

$$= PA + PB$$

$$\text{Perimeter of } \triangle PCD = PA + PB = 2PA = 2(10) = 20 \text{ cm}$$



$\frac{1}{2}$

1

$\frac{1}{2}$

Q.33.

$$\frac{3}{x+1} + \frac{4}{x-1} = \frac{29}{4x-1}; x \neq 1, -1, \frac{1}{4}$$

$$\Rightarrow 3(x-1)(4x-1) + 4(x+1)(4x-1) = 29(x+1)(x-1)$$

$$\Rightarrow 3(4x^2 - 4x - x + 1) + 4(4x^2 + 4x - x - 1) = 29(x^2 - 1)$$

$$\Rightarrow 12x^2 - 15x + 3 + 16x^2 + 12x - 4 = 29x^2 - 29$$

$$\Rightarrow 28x^2 - 3x - 1 = 29x^2 - 29$$

$$\Rightarrow x^2 + 3x - 28 = 0$$

$$\Rightarrow x^2 + 7x - 4x - 28 = 0$$

$$\Rightarrow x(x+7) - 4(x+7) = 0$$

$$\Rightarrow (x-4)(x+7) = 0$$

$$\Rightarrow x = -7 \text{ or } 4.$$

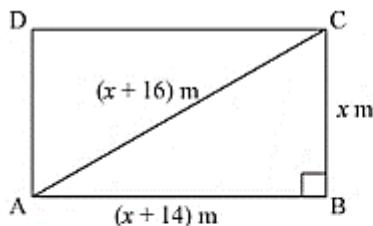
1

 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

1

 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

OR



Let the shorter side of the rectangular field be x m.

Then, diagonal of the rectangular field = $(x+16)$ m

Also, longer side of the rectangular field = $(x+14)$ m

In right $\triangle ABC$

$$(AB)^2 + (BC)^2 = (AC)^2$$

1

$$\Rightarrow (x + 14)^2 + x^2 = (x + 16)^2$$

$\frac{1}{2}$

$$\Rightarrow x^2 + 196 + 28x + x^2 = x^2 + 256 + 32x$$

$\frac{1}{2}$

$$\Rightarrow x^2 - 4x - 60 = 0$$

$\frac{1}{2}$

$$\Rightarrow x^2 - 10x + 6x - 60 = 0$$

$\frac{1}{2}$

$$\Rightarrow x(x - 10) + 6(x - 10) = 0$$

1

$$\Rightarrow x + 6 = 0 \text{ or } x - 10 = 0$$

$\frac{1}{2}$

$$\Rightarrow x = -6 \text{ or } x = 10$$

Since length cannot be negative, so $x = 10$

$\frac{1}{2}$

therefore, the length of the shorter side = 10 m

Length of the diagonal = $10 + 16 = 26$ m

$\frac{1}{2}$

Length of the longer side = $10 + 14 = 24$

$\frac{1}{2}$

Q.34.

Weight (in grams)	80 - 100	100 - 120	120 - 140	140 - 160	160 - 180	Total	2m
No. of apples	20	60	70	40	60	250	
x_i	90	110	130	150	170		
$x_i f_i$	1800	6600	9100	6000	10200	33700	

$$\text{Mean weight} = \frac{33700}{250} = 134.8$$

($\frac{1}{2} + \frac{1}{2}$)

(ii) Modal class = 120-140

$$\text{Mode} = 120 + \frac{(70 - 60)}{(140 - 60 - 40)} \times 20 \\ = 125$$

$\frac{1}{2}$
1
 $\frac{1}{2}$

Hence modal mass = 125 gm

Q.35.

The total surface area of the block = TSA of the Cube + CSA of the

Hemisphere – Base area of the hemisphere

$$= 6 \times a^2 + 2 \times \pi \times r^2 - \pi \times r^2 \\ = 6 \times a^2 + \pi \times r^2 \\ = 6 \times 6^2 + \frac{22}{7} \times 2.1 \times 2.1 \\ = 229.86 \text{ cm}^2$$

$\frac{1}{2}$
1
1

Volume of the block = Volume of the cube + Volume of the hemisphere

$$= a^3 + \frac{2}{3} \times \pi \times r^3 \\ = 6^3 + \frac{2}{3} \times \frac{22}{7} \times 2.1 \times 2.1 \times 2.1 \\ = 216 + 2 \times 22 \times 0.3 \times 0.7 \times 2.1 \\ = 235.404 \text{ cm}^3$$

$\frac{1}{2}$
1
1

OR

Total height of the tent above the ground = 27 m	
Height of the cylindrical part, $h_1 = 6$ m	1
Height of the conical part, $h_2 = 21$ m	
Diameter = 56 m	
Radius = 28 m	1
Curved surface area of the cylinder, $CSA_1 = 2\pi r h_1 = 2\pi \times 28 \times 6 = 336\pi$	
Curved surface area of the cylinder, CSA_2 will be	$\frac{1}{2}$
$\pi r l = \pi r (\sqrt{h^2 + r^2}) = \pi \times 28 \times (\sqrt{21^2 + 28^2}) = 28\pi(\sqrt{441 + 784})$	$\frac{1}{2}$
= $28\pi \times 35$	
= 980π	
Total curved surface area = CSA of cylinder + CSA of cone	$\frac{1}{2}$
= $CSA_1 + CSA_2$	1
= $336\pi + 980\pi$	
= 1316π	$\frac{1}{2}$
= $4136m^2$	$\frac{1}{2}$
Thus, the area of the canvas used in making the tent is $4136 m^2$.	$\frac{1}{2}$
Provision for stitching and wastage = $64 m^2$	
Area of canvas to be purchased = $4136m^2 + 64m^2 = 4200 m^2$	
Cost of canvas = $TSA \times \text{Rate} = 4200 \times 120 = ₹ 5,04,000$	

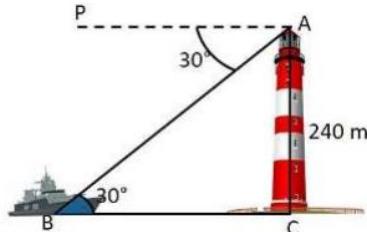
SECTION E

This section comprises 3 case study- based questions of 4 marks each.

Q.36.

Case Study-1

(j)



1m

(ii)

$$\tan 30^\circ = \frac{AC}{BC}$$

$$\frac{1}{\sqrt{3}} = \frac{240}{BC}$$

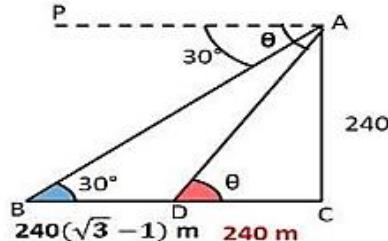
$$BC = 240\sqrt{3} \text{ m}$$

The distance of the boat from the foot of the lighthouse = $240\sqrt{3}$ m

$\frac{1}{2}$

$\frac{1}{2}$

(iii a)



$$\text{Given } BD = 240(\sqrt{3} - 1) \text{ m}$$

$\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$

$$\text{So, } CD = BC - BD = 240\sqrt{3} - 240(\sqrt{3} - 1) = 240 \text{ m}$$

$$\tan \theta = \frac{AC}{CD}$$

$$\tan \theta = \frac{240}{240}$$

$$\tan \theta = 1$$

$$\therefore \theta = 45^\circ$$

the new angle of depression of the boat from the top of the light house = 45°

OR

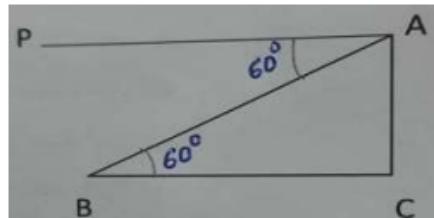
(iii b)

$\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$

$\frac{1}{2}$



When the angle of depression (θ) is 60°

$\angle ABC = \angle PAB = 60^\circ$ (A; Alternate interior angles)

$$\tan B = \frac{AC}{BC}$$

$$\tan 60^\circ = \frac{240}{BC}$$

$$\sqrt{3} = \frac{240}{BC}$$

$$BC = \frac{240}{\sqrt{3}} = \frac{240 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}} = \frac{240\sqrt{3}}{3} = 80\sqrt{3}$$

$$= 80 \times 1.73 = 138.4 \text{ m}$$

The distance of the boat from the lighthouse, when the angle of depression is 60° = 138.4 m

Q.37.

Case Study-2

Solution: $a = 2, d = 3$

(i) Number of pots in the 10th row
 $= a_{10} = a + 9d = 29$

1

(ii) $a_5 - a_2 = (a + 4d) - (a + d) = 3d = 9$

1

(iii) $S_n = 100 \Rightarrow \frac{n}{2} [2(2) + (n - 1)3] = 100$

1

$$3n^2 + n - 200 = 0 \Rightarrow (3n + 25)(n - 8) = 0$$

$$\therefore n = 8 \quad (n = -\frac{25}{3} \text{ rejected}),$$

1

OR

(iii) $S_{12} = \frac{12}{2} [2(2) + 11(3)]$
 $= 222$

1

1

Q.38.

Case Study-3

(i) $OC = \sqrt{5^2 + 3^2} = \sqrt{25 + 9} = \sqrt{34}$ units

1m

C is nearest to the office.

(ii) $AC = \sqrt{(5 - 2)^2 + (3 - 8)^2} = \sqrt{9 + 25} = \sqrt{34}$ units

1m

	<p>(iii) $D = \left(\frac{1x7+2x2}{3}, \frac{1x7+2x8}{3} \right) = \left(\frac{11}{3}, \frac{23}{3} \right)$</p> <p style="text-align: center;">OR</p> <p>$OA = \sqrt{(2)^2 + (8)^2} = \sqrt{4 + 64} = \sqrt{68}$ units</p> <p>$AB = \sqrt{(7 - 2)^2 + (7 - 8)^2} = \sqrt{25 + 1} = \sqrt{26}$ units</p> <p>$BC = \sqrt{(5 - 7)^2 + (3 - 7)^2} = \sqrt{4 + 16} = \sqrt{20}$ units</p> <p>Shortest distance is BC.</p>	<p>1 + 1</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p>
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Set 2		Set 3	
<i>Section A (1m each)</i>		<i>Section A (1m each)</i>	
Q.1.	(D) $\frac{17}{16}$	Q.1.	(D) 2: 1
Q.2.	(C) 50°	Q.2.	(A) 45 minutes
Q.3.	(B) 21	Q.3.	(B) 45°
Q.4.	(C) $ab = 6$	Q.4.	(D) $\frac{17}{16}$
Q.5.	(D) 2: 1	Q.5.	(C) 50°
Q.6.	(A) 45 minutes	Q.6.	(A) 27
Q.7.	(C) 30°	Q.7.	(C) $ab = 6$
Q.8.	(C) $(0, -11)$	Q.8.	(D) 40
Q.9.	(B) r^2	Q.9.	(B) $a^2 b^2$
Q.10.	(D) 40	Q.10.	(C) -36

Q.11.	(D) 4	Q.11.	(B) 30°
Q.12.	(B) 30°	Q.12.	(C) (0, -11)
Q.13.	(B) $k \leq 4$	Q.13.	(D) ± 3
Q.14.	(B) $\frac{5}{12}$	Q.14.	(A) 30°
Q.15.	(B) -5, 0, 7	Q.15.	(A) $\frac{1}{12}$
Q.16.	(C) 250 cm^2	Q.16.	(B) -5, 0, 7
Q.17.	(A) 30°	Q.17.	(C) 250 cm^2
Q.18.	(A) Only Anas	Q.18.	(A) Only Anas
Q.19.	(c) Assertion (A) is true but reason (R) is false.	Q.19.	(a) Both (A) and (R) are true and (R) is the correct explanation of (A)
Q.20.	a) Both (A) and (R) are true and (R) is the correct explanation of (A)	Q.20.	(c) Assertion (A) is true but reason (R) is false.
Section B (2m each)		Section B (2m each)	
Q.21.	Q.24 [Set 1]	Q.21.	Q.23 [Set 1]
Q.22.	Q.25 [Set 1]	Q.22.	Q.24 [Set 1]
Q.23.	Q.21 [Set 1]	Q.23.	Q.25 [Set 1]
Q.24.	Q.22 [Set 1]	Q.24.	Q.21 [Set 1]
Q.25.	Q.23 [Set 1]	Q.25.	Q.22 [Set 1]
Section C (3m each)		Section C (3m each)	
Q.26.	Q.30 [Set 1]	Q.26.	Q.28 [Set 1]
Q.27.	Q.31 [Set 1]	Q.27.	Q.29 [Set 1]
Q.28.	Q.26 [Set 1]	Q.28.	Q.30 [Set 1]
Q.29.	Q.27 [Set 1]	Q.29.	Q.31 [Set 1]
Q.30.	Q.28 [Set 1]	Q.30.	Q.26 [Set 1]
Q.31.	Q.29 [Set 1]	Q.31.	Q.27 [Set 1]

<i>Section D (5m each)</i>		<i>Section D (5m each)</i>	
Q.32.	Q.35 [Set 1]	Q.32.	Q.34 [Set 1]
Q.33.	Q.34 [Set 1]	Q.33.	Q.35 [Set 1]
Q.34.	Q.33 [Set 1]	Q.34.	Q.32 [Set 1]
Q.35.	Q.32 [Set 1]	Q.35.	Q.33 [Set 1]
<i>Section E (4m each)</i>		<i>Section E (4m each)</i>	
Q.36.	Q.37 [Set 1]	Q.36.	Q.38 [Set 1] (iii a) $D = \left(\frac{1x5+2x7}{3}, \frac{1x3+2x7}{3} \right) = \left(\frac{19}{3}, \frac{17}{3} \right)$
Q.37.	Q.38 [Set 1] (iii a) $D = \left(\frac{1x5+2x7}{3}, \frac{1x3+2x7}{3} \right) = \left(\frac{19}{3}, \frac{17}{3} \right)$	Q.37.	Q.36 [Set 1]
Q.38.	Q.36 [Set 1]	Q.38.	Q.37 [Set 1]