

	Solution	Marks	Remarks
<p>1. $\frac{(x^8y^7)^2}{x^5y^{-6}}$</p> $= \frac{x^{16}y^{14}}{x^5y^{-6}}$ $= x^{16-5}y^{14-(-6)}$ $= x^{11}y^{20}$		<p>1M</p> <p>1M</p> <p>1A</p> <p>----- (3)</p>	<p>for $(ab)^m = a^mb^m$ or $(a^m)^n = a^{mn}$</p> <p>for $\frac{c^p}{c^q} = c^{p-q}$ or $\frac{c^p}{c^q} = \frac{1}{c^{q-p}}$</p>
<p>2. $Ax = (4x + B)C$</p> $Ax = 4Cx + BC$ $Ax - 4Cx = BC$ $(A - 4C)x = BC$ $x = \frac{BC}{A - 4C}$		<p>1M</p> <p>1M</p> <p>1A</p>	<p>for putting x on one side</p> <p>or equivalent</p>
	$Ax = (4x + B)C$ $\frac{A}{C}x = 4x + B$ $\frac{A}{C}x - 4x = B$ $\left(\frac{A}{C} - 4\right)x = B$ $\left(\frac{A - 4C}{C}\right)x = B$ $x = \frac{BC}{A - 4C}$	<p>1M</p> <p>1M</p> <p>1A</p>	<p>for putting x on one side</p> <p>or equivalent</p>
<p>3. $\frac{2}{4x-5} + \frac{3}{1-6x}$</p> $= \frac{2(1-6x) + 3(4x-5)}{(4x-5)(1-6x)}$ $= \frac{2 - 12x + 12x - 15}{(4x-5)(1-6x)}$ $= \frac{-13}{(4x-5)(1-6x)}$ $= \frac{13}{(4x-5)(6x-1)}$		<p>1M</p> <p>1M</p> <p>1A</p> <p>----- (3)</p>	<p>or equivalent</p> <p>----- (3)</p>

Solution	Marks	Remarks
4. (a) $5m - 10n$ $= 5(m - 2n)$	1A	
(b) $m^2 + mn - 6n^2$ $= (m + 3n)(m - 2n)$	1A	
(c) $m^2 + mn - 6n^2 - 5m + 10n$ $= m^2 + mn - 6n^2 - (5m - 10n)$ $= (m + 3n)(m - 2n) - 5(m - 2n)$ $= (m - 2n)(m + 3n - 5)$	1M 1A ----- (4)	for using the results of (a) and (b) or equivalent
5. Let x and y be the number of male members and the number of female members respectively. $\begin{cases} x + y = 180 \\ x = (1 + 40\%)y \end{cases}$ So, we have $1.4y + y = 180$. Solving, we have $y = 75$ and $x = 105$. Thus, the difference of the number of male members and the number of female members is 30.	} 1A+1A 1M 1A	for getting a linear equation in x or y only
Let x be the number of male members. $x = (1 + 40\%)(180 - x)$ Solving, we have $x = 105$. Note that $105 - (180 - 105) = 30$. Thus, the difference of the number of male members and the number of female members is 30.	1A+1A+1M 1A	{ 1A for $x = (1 + 40\%)y$ + 1A for $y = 180 - x$ + 1M for a linear equation in one unknown
The difference of the number of male members and the number of female members $= \frac{(180)(40\%)}{100\% + (100\% + 40\%)}$ $= 30$	1A+1A+1M 1A	{ 1A for numerator + 1A for denominator + 1M for fraction
Let d be the difference of the number of male members and number of female members. $\frac{180 + d}{2} = \left(\frac{180 - d}{2}\right)(1 + 40\%)$ $d = 30$ Thus, the difference of the number of male members and the number of female members is 30.	1A+1A+1M 1A ----- (4)	{ 1A for $\frac{180 + d}{2}$ or $\frac{180 - d}{2}$ + 1A for $\left(\frac{180 - d}{2}\right)(1 + 40\%)$ + 1M for a linear equation in one unknown

Solution	Marks	Remarks
<p>6. (a) $x+6 < 6(x+11)$ $x+6 < 6x+66$ $x-6x < 66-6$ $-5x < 60$ $x > -12$</p> <p>Therefore, we have $x > -12$ or $x \leq -5$. Thus, the solutions of (*) are all real numbers.</p>	<p>1M 1A 1A</p>	<p>for putting x on one side</p>
<p>(b) -1</p>	<p>1A</p>	
-----(4)		
<p>7. (a) $\angle AOB$ $= 135^\circ - 75^\circ$ $= 60^\circ$</p>	<p>1A</p>	
<p>(b) Since $AO = BO$, we have $\angle OAB = \angle OBA$. Note that $\angle OAB + \angle OBA + 60^\circ = 180^\circ$. Therefore, we have $\angle OAB = \angle OBA = 60^\circ$. So, $\triangle AOB$ is an equilateral triangle.</p>	<p>1M</p>	<p>can be absorbed</p>
<p>The perimeter of $\triangle AOB$ $= 3(12)$ $= 36$</p>	<p>1A</p>	
<p>(c) 3</p>	<p>1A</p>	
-----(4)		
<p>8. (a) Let $f(x) = hx + kx^2$, where h and k are non-zero constants. So, we have $3h + 9k = 48$ and $9h + 81k = 198$. Solving, we have $h = 13$ and $k = 1$. Thus, we have $f(x) = 13x + x^2$.</p>	<p>1A 1M 1A</p>	<p>for either substitution</p>
<p>(b) $f(x) = 90$ $13x + x^2 = 90$ $x^2 + 13x - 90 = 0$ $(x-5)(x+18) = 0$ $x = 5$ or $x = -18$</p>	<p>1M 1A</p>	
-----(5)		

Solution	Marks	Remarks
9. (a) x $= 2 + 4$ $= 6$ y $= 37 - 15$ $= 22$ z $= 37 + 3$ $= 40$	 1A 1A 1A	
(b) The required probability $= \frac{22 - 6}{40}$ $= \frac{2}{5}$	 1M 1A	 for $\frac{y-x}{z}$ 0.4
Note that $b = 7$ and $c = 9$. The required probability $= \frac{7 + 9}{40}$ $= \frac{2}{5}$	 1M 1A	 for $\frac{b+c}{z}$ 0.4
Note that $a = 2$. The required probability $= \frac{40 - 2 - 4 - 15 - 3}{40}$ $= \frac{2}{5}$	 1M 1A	 for $\frac{z-a-4-15-3}{z}$ 0.4
-----(5)		

Solution	Marks	Remarks
<p>10. (a) Let (x, y) be the coordinates of P.</p> $\sqrt{(x-5)^2 + (y-7)^2} = \sqrt{(x-13)^2 + (y-1)^2}$ $4x - 3y - 24 = 0$ <p>Thus, the equation of Γ is $4x - 3y - 24 = 0$.</p>	<p>1M 1A</p>	<p>or equivalent</p>
<p>The slope of AB</p> $= \frac{7-1}{5-13}$ $= \frac{-3}{4}$ <p>The slope of Γ</p> $= \frac{4}{3}$ <p>The mid-point of AB</p> $= \left(\frac{5+13}{2}, \frac{7+1}{2} \right)$ $= (9, 4)$ <p>Therefore, the equation of Γ is $y - 4 = \frac{4}{3}(x - 9)$.</p> <p>Thus, the equation of Γ is $4x - 3y - 24 = 0$.</p>	<p>1M 1A</p>	<p>or equivalent</p>
<p>(b) Putting $y = 0$ in $4x - 3y - 24 = 0$, we have $x = 6$.</p> <p>So, the coordinates of H are $(6, 0)$.</p> <p>Putting $x = 0$ in $4x - 3y - 24 = 0$, we have $y = -8$.</p> <p>Therefore, the coordinates of K are $(0, -8)$.</p> <p>The diameter of C</p> $= HK$ $= \sqrt{(6-0)^2 + (0-(-8))^2}$ $= 10$ <p>The circumference of C</p> $= 10\pi$ ≈ 31.41592654 > 30 <p>Thus, the claim is correct.</p>	<p>----- (2)</p> <p>1M</p> <p>----- (3)</p> <p>1A</p>	<p>either one</p> <p>f.t.</p>

Solution	Marks	Remarks
<p>11. (a) Let $V \text{ cm}^3$ be the final volume of milk in the vessel.</p> $\frac{V - 444\pi}{V} = \left(\frac{12}{16}\right)^3$ $V = 768\pi$ <p>Thus, the final volume of milk in the vessel is $768\pi \text{ cm}^3$.</p>	<p>1M+1A 1A</p>	<p>1M for $\left(\frac{12}{16}\right)^3$</p>
<p>Let $V \text{ cm}^3$ and $r \text{ cm}$ be the final volume of milk and the final radius of the surface of milk in the vessel respectively.</p> $V = \frac{1}{3}\pi r^2(16)$ $V - 444\pi = \frac{1}{3}\pi\left(\frac{12r}{16}\right)^2(12)$ <p>So, we have $V - 444\pi = \frac{1}{3}\pi\left(\frac{12}{16}\right)^2\left(\frac{3V}{16\pi}\right)(12)$.</p> <p>Solving, we have $V = 768\pi$.</p> <p>Thus, the final volume of milk in the vessel is $768\pi \text{ cm}^3$.</p>	<p>1M+1A 1A</p>	<p>1M for eliminating r^2</p>
<p>(b) Let $r \text{ cm}$ be the final radius of the surface of milk in the vessel.</p> $\frac{1}{3}\pi r^2(16) = 768\pi$ $r = 12$ <p>The final area of the wet curved surface of the vessel</p> $= \pi(12)\sqrt{12^2 + 16^2}$ $= 240\pi$ $\approx 753.9822369 \text{ cm}^2$ $< 800 \text{ cm}^2$ <p>Thus, the claim is disagreed.</p>	<p>------(3)</p> <p>1M</p> <p>1M</p> <p>1A</p> <p>------(3)</p>	<p>f.t.</p>

Solution	Marks	Remarks
<p>12. (a) $11+a=11+b+4$ $a=b+4$ Note that $a > 11$ and $4 < b < 10$. Thus, we have $\begin{cases} a=12 \\ b=8 \end{cases}$ or $\begin{cases} a=13 \\ b=9 \end{cases}$.</p>	<p>1M 1A+1A</p>	<p>1A for one pair + 1A for all</p>
------(3)		
<p>(b) (i) The median is the greatest when the ages of these four children are 7, 8, 9 and 10 . The greatest possible median of the ages of the children in the group = 8</p>	<p>1M 1A</p>	
<p>(ii) The mean is the least when the ages of these four children are 6, 7, 8 and 9 . By (a), there are two cases.</p>	<p>1M</p>	
<p>Case 1: $a=12$ and $b=8$ The mean of the ages of the children in the group $= \frac{12(6)+13(7)+12(8)+9(9)+4(10)}{12+13+12+9+4}$ $= 7.6$</p>		
<p>Case 2: $a=13$ and $b=9$ The mean of the ages of the children in the group $= \frac{12(6)+14(7)+12(8)+10(9)+4(10)}{12+14+12+10+4}$ ≈ 7.615384615</p>		
<p>Thus, the least possible mean of the ages of the children in the group is 7.6 .</p>	<p>1A</p>	<p>f.t.</p>
------(4)		

Solution	Marks	Remarks
13. (a) In $\triangle ACD$ and $\triangle ABE$, $\angle ADC = \angle AEB$ (given) $AD = AE$ (sides opp. equal \angle s) $CE = BD$ (given) $CE + DE = BD + DE$ $CD = BE$ $\triangle ACD \cong \triangle ABE$ (SAS)		
Marking Scheme:		
Case 1 Any correct proof with correct reasons.	2	
Case 2 Any correct proof without reasons.	1	
(b) (i) Note that $DM = EM = 9$ cm and $\angle AMD = \angle AME = 90^\circ$.		
AM $= \sqrt{AD^2 - DM^2}$ $= \sqrt{15^2 - 9^2}$ $= \sqrt{144}$ $= 12 \text{ cm}$	1M 1A	
(ii) AB^2 $= AM^2 + BM^2$ $= 144 + (7 + 9)^2$ $= 400$ By (a), we have $AE = AD = 15$ cm .	1M	
$AB^2 + AE^2$ $= 400 + 15^2$ $= 625$ $= (7 + 18)^2$ $= (BD + DE)^2$ $= BE^2$ Thus, $\triangle ABE$ is a right-angled triangle.	1M 1A	f.t.
	----- (5)	

Solution	Marks	Remarks
14. (a) Note that $p(2) = 152 + 4a + 2b + c$ and $p(-2) = 40 + 4a - 2b + c$. Since $p(2) = p(-2)$, we have $b = -28$.	1M	
By comparing the coefficients of x^4 , we have $l = 3$.	1A	
Note that the coefficients of x^3 and x in the expansion of $(3x^2 + 5x + 8)(2x^2 + mx + n)$ are $3m + 10$ and $8m + 5n$ respectively.	1M	
So, we have $3m + 10 = 7$ and $8m + 5n = -28$.	1A+1A	
Solving, we have $m = -1$ and $n = -4$.	----- (5)	
(b) $p(x) = 0$		
$(3x^2 + 5x + 8)(2x^2 - x - 4) = 0$ (by (a))		
$3x^2 + 5x + 8 = 0$ or $2x^2 - x - 4 = 0$		
$5^2 - 4(3)(8)$	1M	
$= -71$	1A	
< 0		either one
So, the quadratic equation $3x^2 + 5x + 8 = 0$ does not have real roots.	1M+1A	either one
$(-1)^2 - 4(2)(-4)$		either one
$= 33$		
> 0		
Therefore, the quadratic equation $2x^2 - x - 4 = 0$ has 2 real roots.		
Hence, the equation $(3x^2 + 5x + 8)(2x^2 - x - 4) = 0$ has 2 real roots.		
Thus, the equation $p(x) = 0$ has 2 real roots.	1A	f.t.
	----- (5)	

Solution	Marks	Remarks
17. (a) Let d be the common difference of the sequence. $555 = 666 + (38 - 1)d$ $d = -3$	1M 1A	
<div style="border: 1px solid black; padding: 5px;"> The common difference of the sequence $= \frac{555 - 666}{38 - 1}$ $= -3$ </div>	1M 1A	
	----- (2)	
(b) $\frac{n}{2}(2(666) + (n-1)(-3)) > 0$ $1335n - 3n^2 > 0$ $n(n - 445) < 0$ $0 < n < 445$ Thus, the greatest value of n is 444.	1M+1A 1A	
	----- (3)	
18. (a) $f(x)$ $= \frac{-1}{3}x^2 + 12x - 121$ $= \frac{-1}{3}(x^2 - 36x) - 121$ $= \frac{-1}{3}(x^2 - 36x + 18^2 - 18^2) - 121$ $= \frac{-1}{3}(x - 18)^2 - 13$	1M 1A	
Thus, the coordinates of the vertex are $(18, -13)$.	----- (2)	
(b) $g(x)$ $= f(x) + 13$ $= \frac{-1}{3}(x - 18)^2$	1M 1A	accept $\frac{-1}{3}x^2 + 12x - 108$
	----- (2)	
(c) Note that $\frac{-1}{3}x^2 - 12x - 121 = f(-x)$. Thus, the transformation is the reflection with respect to the y -axis.	1A+1A	1A for reflection + 1A for all correct
<div style="border: 1px solid black; padding: 5px;"> Note that $\frac{-1}{3}x^2 - 12x - 121 = f(x + 36)$. Thus, the transformation is the leftward translation of 36 units. </div>	1A+1A	1A for translation + 1A for all correct
	----- (2)	

Solution	Marks	Remarks
<p>19. (a) By sine formula,</p> $\frac{AB}{\sin \angle ADB} = \frac{BD}{\sin \angle BAD}$ $\frac{10}{\sin \angle ADB} = \frac{15}{\sin 86^\circ}$ $\angle ADB \approx 41.68560132^\circ \text{ or } \angle ADB \approx 138.3143987^\circ \text{ (rejected)}$ $\angle ABD = 180^\circ - \angle BAD - \angle ADB$ $\angle ABD \approx 52.31439868^\circ$ $\angle ABD \approx 52.3^\circ$ <p>By cosine formula,</p> $CD^2 = BC^2 + BD^2 - 2(BC)(BD)\cos \angle CBD$ $CD^2 \approx 8^2 + 15^2 - 2(8)(15)\cos 43^\circ$ $CD \approx 10.65246974$ $CD \approx 10.7 \text{ cm}$	<p>1M</p> <p>1A</p> <p>1M</p> <p>1A</p> <p>------(4)</p>	<p>r.t. 52.3°</p> <p>r.t. 10.7 cm</p>
<p>(b) Since $AC^2 + BC^2 = AB^2$, we have $\angle ACB = 90^\circ$.</p> <p>By cosine formula,</p> $AD^2 = AB^2 + BD^2 - 2(AB)(BD)\cos \angle ABD$ $AD^2 \approx 10^2 + 15^2 - 2(10)(15)\cos 52.31439868^\circ$ $AD \approx 11.89964475$ <p>By cosine formula,</p> $AD^2 = AC^2 + CD^2 - 2(AC)(CD)\cos \angle ACD$ $\cos \angle ACD \approx \frac{6^2 + (10.65246974)^2 - (11.89964475)^2}{2(6)(10.65246974)}$ $\angle ACD \approx 86.46867599^\circ$ <p>So, $\angle ACD$ is not a right angle.</p> <p>Hence, the angle between AB and the face BCD is not $\angle ABC$.</p> <p>Thus, the claim is disagreed.</p>	<p>1M</p> <p>1A</p>	<p>f.t.</p>
<p>Since $AC^2 + BC^2 = AB^2$, we have $\angle ACB = 90^\circ$.</p> <p>By cosine formula,</p> $AD^2 = AB^2 + BD^2 - 2(AB)(BD)\cos \angle ABD$ $AD^2 \approx 10^2 + 15^2 - 2(10)(15)\cos 52.31439868^\circ$ $AD^2 \approx 141.6015451$ $AC^2 + CD^2 \approx 6^2 + (10.65246974)^2$ $AC^2 + CD^2 \approx 149.4751116$ <p>Hence, we have $AD^2 \neq AC^2 + CD^2$.</p> <p>So, $\angle ACD$ is not a right angle.</p> <p>Hence, the angle between AB and the face BCD is not $\angle ABC$.</p> <p>Thus, the claim is disagreed.</p>	<p>1M</p> <p>1A</p> <p>------(2)</p>	<p>f.t.</p>

Solution	Marks	Remarks												
<p>20. (a) Note that J is the centre of the circle OPQ . $\angle IPO = \angle IPQ$ (in-centre of Δ) Also note that P, I and J are collinear. $\angle JPO = \angle JPQ$ $JO = JP$ (radii) $\angle JOP = \angle JPO$ (base \angles, isos. Δ) $JP = JQ$ (radii) $\angle JPQ = \angle JQP$ (base \angles, isos. Δ) $\angle JOP = \angle JQP$ $JP = JP$ (common side) $\Delta JOP \cong \Delta JQP$ (AAS) Thus, we have $OP = PQ$. (corr. sides, $\cong \Delta$s)</p>														
<p>Note that J is the centre of the circle OPQ . $\angle IPO = \angle IPQ$ (in-centre of Δ) Also note that P, I and J are collinear. $\angle JPO = \angle JPQ$ $JP = JQ$ (radii) $\angle JQP = \angle JPQ$ (base \angles, isos. Δ) $= \angle JPO$ $2\angle POQ = \angle PJQ$ (\angle at centre twice \angle at circumference) $= 180^\circ - \angle JPQ - \angle JQP$ (\angle sum of Δ) $= 180^\circ - \angle JPQ - \angle JPO$ $= \angle POQ + \angle OQP$ (\angle sum of Δ) $\angle POQ = \angle OQP$ Thus, we have $OP = PQ$. (sides opp. equal \angles)</p>														
<p>Note that J is the centre of the circle OPQ . $\angle IPO = \angle IPQ$ (in-centre of Δ) Also note that P, I and J are collinear. $\angle JPO = \angle JPQ$ $JO = JP$ (radii) $\angle JOP = \angle JPO$ (base \angles, isos. Δ) $JP = JQ$ (radii) $\angle JPQ = \angle JQP$ (base \angles, isos. Δ) $\angle JOP = \angle JQP$ $JO = JQ$ (radii) $\angle JOQ = \angle JQO$ (base \angles, isos. Δ) $\angle JOP - \angle JOQ = \angle JQP - \angle JQO$ $\angle POQ = \angle OQP$ Thus, we have $OP = PQ$. (sides opp. equal \angles)</p>														
<table border="1"> <thead> <tr> <th colspan="3">Marking Scheme:</th> </tr> </thead> <tbody> <tr> <td>Case 1</td> <td>Any correct proof with correct reasons.</td> <td>3</td> </tr> <tr> <td>Case 2</td> <td>Any correct proof without reasons.</td> <td>2</td> </tr> <tr> <td>Case 3</td> <td>Incomplete proof with any one correct step and one correct reason.</td> <td>1</td> </tr> </tbody> </table>			Marking Scheme:			Case 1	Any correct proof with correct reasons.	3	Case 2	Any correct proof without reasons.	2	Case 3	Incomplete proof with any one correct step and one correct reason.	1
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	-----(3)													

Solution	Marks	Remarks
<p>(b) (i) Let $(h, 19)$ be the coordinates of P.</p> <p>By (a), we have $h^2 + 19^2 = (40 - h)^2 + (30 - 19)^2$.</p> <p>Solving, we have $h = 17$.</p> <p>Let $x^2 + y^2 + Dx + Ey + F = 0$ be the equation of C.</p> <p>Since C passes through the origin, we have $F = 0$.</p> <p>So, we have $17D + 19E + 650 = 0$ and $40D + 30E + 2500 = 0$.</p> <p>Solving, we have $D = -112$ and $E = 66$.</p> <p>Thus, the equation of C is $x^2 + y^2 - 112x + 66y = 0$.</p>	1M	
<p>(ii) Note that the equations of L_1 and L_2 are in the form</p> $y = \frac{3}{4}x + c, \text{ where } c \text{ is a constant.}$ <p>Putting $y = \frac{3}{4}x + c$ in $x^2 + y^2 - 112x + 66y = 0$, we have</p> $x^2 + \left(\frac{3}{4}x + c\right)^2 - 112x + 66\left(\frac{3}{4}x + c\right) = 0.$ $25x^2 + (24c - 1000)x + 16c^2 + 1056c = 0$	1M	for either one
<p>Since L_1 and L_2 are tangents to C, we have</p> $(24c - 1000)^2 - 4(25)(16c^2 + 1056c) = 0.$ $16c^2 + 2400c - 15625 = 0$ $(4c - 25)(4c + 625) = 0$ $c = \frac{25}{4} \text{ or } c = -\frac{625}{4}$ <p>Therefore, the equations of L_1 and L_2 are</p> $y = \frac{3}{4}x + \frac{25}{4} \text{ and } y = \frac{3}{4}x - \frac{625}{4} \text{ respectively.}$	1M	for either one
<p>Note that the coordinates of S, T, U and V are $\left(\frac{-25}{3}, 0\right)$, $\left(0, \frac{25}{4}\right)$, $\left(\frac{625}{3}, 0\right)$ and $\left(0, -\frac{625}{4}\right)$ respectively.</p>		
<p>The area of the trapezium $STUV$</p> $= \frac{1}{2} \left(\left(\frac{625}{3}\right)\left(\frac{625}{4}\right) + \left(\frac{625}{4}\right)\left(\frac{25}{3}\right) + \left(\frac{25}{3}\right)\left(\frac{25}{4}\right) + \left(\frac{25}{4}\right)\left(\frac{625}{3}\right) \right)$ $= \frac{105625}{6}$ ≈ 17604.16667 > 17000 <p>Thus, the claim is correct.</p>	1M	$\frac{2(65)}{2} \left(\sqrt{\left(\frac{625}{3}\right)^2 + \left(-\frac{625}{4}\right)^2} + \sqrt{\left(\frac{-25}{3}\right)^2 + \left(\frac{25}{4}\right)^2} \right)$
	1A	f.t.
	----- (9)	

Paper 2

Question No.	Key	Question No.	Key
1.	A (47)	26.	B (37)
2.	A (81)	27.	C (56)
3.	D (65)	28.	C (58)
4.	C (87)	29.	B (69)
5.	A (80)	30.	B (76)
6.	B (76)	31.	C (61)
7.	A (62)	32.	D (40)
8.	C (82)	33.	A (43)
9.	D (46)	34.	B (38)
10.	C (69)	35.	D (47)
11.	D (81)	36.	B (35)
12.	D (67)	37.	A (46)
13.	A (81)	38.	B (49)
14.	C (92)	39.	A (35)
15.	B (45)	40.	D (38)
16.	D (80)	41.	C (45)
17.	A (55)	42.	A (55)
18.	C (79)	43.	D (51)
19.	A (59)	44.	B (52)
20.	C (51)	45.	C (50)
21.	B (57)		
22.	D (54)		
23.	A (82)		
24.	B (64)		
25.	D (35)		

Note: Figures in brackets indicate the percentages of candidates choosing the correct answers.