

## Set 4 Paper 1

## Section A(1)

$$\begin{aligned}
 1. \quad \frac{(a^{-3}b)^2}{(ab^{-2})^2} &= \frac{a^{-6}b^2}{a^2b^{-4}} & 1M \\
 &= \frac{b^{2+4}}{a^{2+6}} & 1M \\
 &= \frac{b^6}{a^8} & 1A \\
 &= \frac{1}{a^8b^6} & (4)
 \end{aligned}$$

$$\begin{aligned}
 2. \quad \frac{1}{m} &= \frac{m+2}{7-m} & 1M \\
 7-m &= m(m+2) & \\
 7-m &= m^2+2m & \\
 m^2+3m &= 7 & 1M \\
 m(m+3) &= 7 & \\
 m &= \frac{2m+7}{m+3} & 1A \\
 &= \frac{2m+7}{m+3} & (4)
 \end{aligned}$$

$$\begin{aligned}
 3. \quad (a) \quad x^2 - 12xy + 36y^2 &= (x-6y)^2 & 1A \\
 (b) \quad x^2 - 12xy + 36y^2 &= (x-6y)^2 & \\
 &= (x-6y)^2 - (x-6y)^2 & \\
 &= [(x-6y) + (x-6y)][(x-6y) - (x-6y)] & 1M \\
 &= (2x-6y-6y)(6-6y) & \\
 &= 12(x-3y)(1-y) & 1A \\
 &= 12(x-3y)(1-y) & (4)
 \end{aligned}$$

$$\begin{aligned}
 4. \quad \text{The radius of the hemisphere} & \\
 &= \frac{18}{2} \text{ cm} & 1A \\
 &= 9 \text{ cm} & \\
 \text{The volume of the hemisphere} & \\
 &= \frac{1}{2} \times \frac{4}{3} \pi (9)^3 \text{ cm}^3 & 1M \\
 &= 486\pi \text{ cm}^3 & \\
 \text{The volume of the cylinder} & \\
 &= \pi (9)^2 (15) \text{ cm}^3 & 1M \\
 &= 1215\pi \text{ cm}^3 & \\
 \therefore \text{The volume of the solid} & \\
 &= (486\pi + 1215\pi) \text{ cm}^3 & 1A \\
 &= 1701\pi \text{ cm}^3 & (4)
 \end{aligned}$$

$$\begin{aligned}
 5. \quad (a) \quad 2x+3 &< 4(x-5) & \text{or} & -3x \geq 6 & 1A \\
 2x+3 &< 4x-20 & \text{or} & x \leq -2 & \\
 -2x &< -23 & \text{or} & x \leq -2 & \\
 x &> 11.5 & \text{or} & x \leq -2 & 1A \\
 & & & & (4)
 \end{aligned}$$

$$\begin{aligned}
 \therefore -999 &< -2 & 1A \\
 \therefore -999 &\text{ is a solution of } (*) & (4)
 \end{aligned}$$

$$\begin{aligned}
 (b) \quad 12 & & 1A \\
 & & (4)
 \end{aligned}$$

6. Let  $x$  km and  $y$  km be the distances that the athlete runs from starting point  $A$  to checkpoint  $B$  and from checkpoint  $B$  to goal  $C$  respectively.

$$\begin{aligned}
 \begin{cases} x+y=20.4 & \dots\dots(1) \\ \frac{x}{8}+\frac{y}{12}=\frac{132}{60} & \dots\dots(2) \end{cases} & 1A+1A
 \end{aligned}$$

$$\text{From (1), we have } y=20.4-x \dots\dots(3)$$

$$\text{From (2), we have } 3x+2y=52.8 \dots\dots(4)$$

$$\begin{aligned}
 \text{By substituting (3) into (4), we have} & \\
 3x+2(20.4-x) &= 52.8 & 1M \\
 40.8+x &= 52.8 & \\
 x &= 12 &
 \end{aligned}$$

$$\begin{aligned}
 \text{By substituting } x=12 \text{ into (3), we have} & \\
 y &= 20.4-12 & \\
 &= 8.4 &
 \end{aligned}$$

$$\therefore \text{The athlete runs 8.4 km from checkpoint } B \text{ to goal } C. \quad 1A \quad (4)$$

7. (a)  $J'$  is the perpendicular bisector of  $AB$ . 1A

$$\begin{aligned}
 (b) \quad \text{Diagram showing a rhombus } OACB \text{ with diagonals } AB \text{ and } OC \text{ intersecting at } M. \quad 1M \\
 \angle AOB = 360^\circ - (255^\circ + 15^\circ) & \\
 &= 120^\circ & \\
 \text{Let } M \text{ be the mid-point of } AB. & \\
 \therefore AB \perp OM & \text{ (property of rhombus)} & 1M \\
 \therefore OM = 6 \cos \frac{120^\circ}{2} & \\
 &= 3 & \\
 \therefore OM = MQ & \text{ (property of rhombus)} & \\
 \therefore \text{The polar coordinates of } Q & \\
 &= (2 \times 3, 255^\circ + 60^\circ) & 1A \\
 &= (6, 315^\circ) & (4)
 \end{aligned}$$

# Le Cep Set 4 Paper 1

**Lingsheng Yao**



## Le Cep Set 4 Paper 1:

Proceedings ,1996      **The papers set at the professional preliminary examination** College of preceptors,1886

*Measure and Measurable Dynamics* R. Daniel Mauldin,Rae Michael Shortt,César Ernesto Silva,1989 Dorothy Maharam Stone s contributions to operators and measure algebras has had a profound influence on this area of research This volume contains the proceedings of the Conference on Measure and Measurable Dynamics held in honor of Stone at the University of Rochester in September 1987      **The Oölogist** ,1891      **Peterson's Magazine** ,1881      *"A" Standard Dictionary of the English Language Upon Original Plans* Isaac Kaufman Funk,1893      *Economic Change and Wellbeing* Fabio D'Orlando,Francesco Ferrante,Albertina Oliverio,2021-09-01 Technological progress and globalization have generated indisputable benefits but also relevant costs such as growing economic inequality economic fluctuations and financial instability Mainstream economics has usually considered these costs as temporary evenly distributed and more than compensated by the gains of the phases of economic expansion In this book which focuses mainly though not only on the labor market the authors contend that the major costs of the intensified process of creative destruction through which economic change proceeded have been ignored and the benefits overrated thus incorrectly estimating the net impact of economic growth on subjective wellbeing The book argues that the positive consequences of economic change and globalization may not compensate for the negatives because psychological losses are felt more strongly than gains due to loss aversion and the costs are unequally distributed those on low incomes disproportionately suffer more The result is an overall reduction in wellbeing and therefore appropriate policies are necessary to allow more people to enjoy the benefits of technological progress without suffering the costs The authors develop a comprehensive framework in which the socio psychological context and educational level of a community determine the most suitable policies both for the short and for the long run The book makes an invaluable contribution to the literature on economic growth and development labor economics the economics of wellbeing and applications of behavioral economics The readers that may be interested in this book are economists and other social scientists but also general readers since the analysis is maintained simple and accessible University teachers can use the book for courses on economic growth and development on labor economics on the economics of human capital on the economics of wellbeing and on applications of behavioral economics      *Neutrosophic Sets and Systems*, vol. 52/2022 Florentin Smarandache,Mohamed Abdel-Basset,Maikel Leyva Vazquez,Said Broumi,2022-11-01 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum

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**Sessional Papers**, 1904 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement Sessional Papers of the Dominion of Canada Canada. Parliament, 1904 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement *Christian Science Sentinel*, 1918 **The Engineer**, 1890 **Business America**, 1978 Includes articles on international business opportunities **Electrical World**, 1891 The Morning Star and Free Baptist, 1899 *Poultry for Eggs, for Table, for Show ...*, 1926 Engineering, 1880 *Farmer's Weekly*, 1918 Lumber Trade Journal, 1900 **The Publishers' Trade List Annual**, 1991

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