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For the January 2025 exam series

V1.0 January 2025

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ECONOMICS**ECONOMICS AS****9641**

EC01 INSERT	ExtA (i)		https://www.statista.com/statistics/702735/household-natural-gas-prices-in-selected-countries/ © Statista
	ExtA (ii)		Data Natural Gas Production. Source https://yearbook.enerdata.net/natural-gas/world-natural-gas-production-statistics.htm Used with permission of © Enerdata
EC02 INSERT	Ext A (i)		<u>General government final consumption expenditure (constant 2015 US\$) Data (worldbank.org)</u> © World Bank Data CC BY 4.0
	Ext A (ii)		<u>GDP growth (annual %) Data (worldbank.org)</u> © World Bank Data. CC BY 4.0
EC02 QP	Q17.1		GDP South Africa Data - Source https://data.worldbank.org/indicator/NY.GDP.MKTP.KD © World Bank used under creative commons licence CC BY 4.0

ECONOMICS A-level**9642**

EC03 INSERT	Ext A		R&D Spending data. <u>General government final consumption expenditure (constant 2015 US\$) Data (worldbank.org)</u> © World Bank Data CC BY 4.0
	Ext A		Global Patents data © WIPO Used under creative commons licence CC BY 4.0
EC04 INSERT	Ext A		Indonesia Table Source <u>Indonesia and the IMF</u> 2020 to 2022 - Article IV report 2023 2017 to 2018 - Article IV report 2019 2015 to 2016 - Article IV report 2017 Output gap figure for 2019 is an estimate from the 2019 report Output gap figure for 2023 is an estimate from the 2023 report
EC04 QP	Q8		FDI data table. Source : https://data.worldbank.org/indicator/BX.KLT.DINV.CD.WD?end=2022&locations=EG&start=1970&view=chart Used under Creative Commons licence CC BY 4.0

ENGLISH**ENGLISH LANGUAGE AS****9671**

EN01		Text A	I Never Regret Opting out of University © DMG Media Licensing
		Text B	Female Graduate image 1362841700 - © iStock.com/PeopleImages
EN02		Text A	© www.off-campers.com

ENGLISH LANGUAGE A-LEVEL**9672**

EN04A INSERT 1		Text 1	Text © Michael Rosen, 2016. Illustrations © Sarah Horne, 2016. Reproduced with the permission of Scholastic Limited. All Rights Reserved
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		Text 2	https://mensa.org.uk/the-science-of-laughter/ This article, written by Jonathan McIntosh, was first published in British Mensa’s weekly newsletter My Mensa Weekly on 25/3/23.’
		Text 3	Warming up – © Richard Herring
EN04A INSERT 2		Text 4	Text by permission of © Al Jazeera Media Network and Images © Nasir Kachroo
		Text 6	Mount Everest - From Wonders of the World published by DK Children. Copyright © Dorling Kindersley. Reprinted by permission of Dorling Kindersley Limited.

ENGLISH LITERATURE AS**9676****LT01**

Doctor Faustus Act 4 Sc 2
 Duchess of Malfi Act 5 Sc 3
 Hamlet Act 2 Sc 1
 King Lear Act 5 Sc3
 Othello Act 2 Sc 3

ENGLISH LITERATURE A-LEVEL**9677****LT04A**

Second Hand Coat from *Poems New and Selected* by Ruth Stone. Yellow Moon Press © Ruth Stone 1987

Some Luck by Jane Smiley. Published by Picador 2015

Mirror from *Collected Poems* by Sylvia Plath. Published by Faber and Faber Limited

GEOGRAPHY**Geography AS****9636****GG01A**

Fig 1

Data source: EM-DAT, CRED / UCLouvain (2023) [OurWorldInData.org/natural-disasters](https://ourworldindata.org/natural-disasters) | CC BY
 EM-DAT, CRED / UCLouvain (2023) – processed by Our World in Data

Fig 2

Economic damage by natural disaster type”, part of the following publication: Hannah Ritchie and Pablo Rosado (2022) - “Natural Disasters”. Data adapted from EM-DAT, CRED / UCLouvain. Retrieved from <https://ourworldindata.org/grapher/economic-damage-from-natural-disasters> [online resource]

Fig 3

United Nations Environment Programme (1997). World Atlas of Desertification - Second Edition. Nairobi.

GG01B

Fig 1

Data source: EM-DAT, CRED / UCLouvain (2023) [OurWorldInData.org/natural-disasters](https://ourworldindata.org/natural-disasters) | CC BY
 EM-DAT, CRED / UCLouvain (2023) – processed by Our World in Data

Fig 2

Economic damage by natural disaster type”, part of the following publication: Hannah Ritchie and Pablo Rosado (2022) - “Natural Disasters”. Data adapted from EM-DAT, CRED / UCLouvain.

		Retrieved from https://ourworldindata.org/grapher/economic-damage-from-natural-disasters [online resource]
	Fig 3	Harley, M.D., Turner, I.L., Kinsela, M.A. <i>et al.</i> Extreme coastal erosion enhanced by anomalous extratropical storm wave direction. <i>Sci Rep</i> 7 , 6033 (2017). https://doi.org/10.1038/s41598-017-05792-1
GG02	Fig 1	Source Emigration in Asia – Landgeist © Landgeist Data source United Nations 2019
	Fig 2	Source Immigrant Population in Asia – Landgeist © Landgeist Data Source United Nations 2019/Taiwan National Migration Agency 2019
	Fig 3	Source BP Statistical Review of World Energy 2020
	Fig 4	Source BP Statistical Review of World Energy 2020
Geography A-level		
9637		
GG03	Fig 1	CO₂ emissions per capita vs. GDP per capita, 2018 (ourworldindata.org) Global Carbon Budget (2023); Population based on various sources (2023) – with major processing by Our World in Data
	Fig 2	Life by Sadava, Hillis, Heller et al. 11 th Edition. Oxford Publishing Limited. Reproduced with permission of the Licensor through PLSclear
GG04	Fig1a&1b	Change analysis of land use/land cover and modelling urban growth in Greater Doha, Qatar – By Nadeem Hashem ^{a*} & Perumal Balakrishnan ^{ba} Environmental Studies Center, Qatar University, Doha, Qatar ^b Department of Biological and Environmental Sciences, Qatar University, Doha, Qatar. <i>Annals of GIS</i> . Volume 21. Issue 3 pg 233–247 Year of publication: 2015. © Taylor & Francis Group
	Fig 2a & 2b	Source Wafaa Baabou, Nicole Grunewald, Claudiane Ouellet-Plamondon, Michel Gressot, Alessandro Galli, The Ecological Footprint of Mediterranean cities: Awareness creation and policy implications, <i>Environmental Science & Policy</i> , Volume 69, 2017, Pages 94-104, ISSN 1462-9011, https://doi.org/10.1016/j.envsci.2016.12.013 . (https://www.sciencedirect.com/science/article/pii/S1462901116303987) Used under Creative Commons Licence CC BY 4.0 Int

SCIENCE**BIOLOGY AS****9611**

BL01	Q4.1 Fig 7D	Huang, W., Zhang, Y., Zhong, L. et al. Simultaneous determination of cis- and trans-palmitoleic acid in rat serum by UPLC–MS/MS. <i>Sci Rep</i> 12 , 16637 (2022). https://doi.org/10.1038/s41598-022-20739-x Creative Commons CC-BY v4.0
	Q7	Top view of a Leaf-insect, <i>Phyllium giganteum</i> , isolated on white 2256559375 © Shutterstock/Eric Isselee An adult male leaf insect (<i>Cryptophyllium oyae</i>) from Nan, Thailand 2151655393 © Shutterstock/Mintharee
BL02	Q5	Manoto SL, Lugongolo M, Govender U, Mthunzi-Kufa P. Point of Care Diagnostics for HIV in Resource Limited Settings: An Overview. <i>Medicina</i> . 2018; 54(1):3.

		https://doi.org/10.3390/medicina54010003 . Creative Commons Attribution (CC BY) license .
	Q6 Fig 7	A dynamic view of chemotherapy Yunpeng Liu and Michael T. Hemann Nature Vol 572, 15 August 2019. doi: https://doi.org/10.1038/d41586-019-02336-7 © 2019, Nature
BIOLOGY A-LEVEL		
9612		
BL03	Q2	Salamander 1917552047 © Shutterstock/Wirestock Creators
	Q2 Fig 4	California Topographic Relief Map 1361946666 © iStock.com/Mlyons Image of salamander 1199355935 © iStock.com/Gerald Corsi
	Q4 Fig 6	Seals 2222068613 © Shutterstock/Randy Runtsch
	Q6 Fig 10	NOAA National Centers for Environmental information, Climate at a Glance: Global Time Series, published February 2024, retrieved on February 23, 2024 from https://www.ncei.noaa.gov/access/monitoring/climate-at-a-glance/global/time-series
	Q6 Fig 11	Curtis A. Deutsch et al. ,Increase in crop losses to insect pests in a warming climate.Science361,916-919(2018).DOI:10.1126/science.aat3466 © 2018, The American Association for the Advancement of Science
BL04	Q3	Sajic M, Mastrolia V, Lee CY, Trigo D, Sadeghian M, Mosley AJ, et al. (2013) Impulse Conduction Increases Mitochondrial Transport in Adult Mammalian Peripheral Nerves In Vivo. PLoS Biol 11(12): e1001754. https://doi.org/10.1371/journal.pbio.1001754 Creative Commons CC-BY 4.0
	Q5 Fig 5.1	Plant pot on side 2342944921 © Shutterstock/Honourr
	Q7 Table 3	Neill SJ, Desikan R, Clarke A, Hancock JT. Nitric oxide is a novel component of abscisic acid signaling in stomatal guard cells. Plant Physiol. 2002 Jan;128(1):13-6. 10.1104/pp.128.1.13 Oxford University Press. © 2002 American Society of Plant Physiologists.
BL05	Q1 Fig 1/A	PSEUDOSTRATIFIED CILIATED COLUMNAR EPITHELIUM (TRACHEA, HUMAN) 139809474 © Ed Reschke/Getty Images
	Q1 Fig 1/B	Transmission electron micrograph (TEM)Trachea lining, F032/6737 © STEVE GSCHMEISSNER / SCIENCE PHOTO LIBRARY
	Q1 Fig 1/C	Trachea lining, SEM C013/7123 © STEVE GSCHMEISSNER / SCIENCE PHOTO LIBRARY
	Q1 Fig 3	Leopold PL, O'Mahony MJ, Lian XJ, Tilley AE, Harvey B-G, Crystal RG (2009) Smoking Is Associated with Shortened Airway Cilia. PLoS ONE 4(12): e8157. https://doi.org/10.1371/journal.pone.0008157 Creative Commons Licence Adapted with permission of the American Thoracic Society. Copyright © 2024 American Thoracic Society. All rights reserved. Samantha M. Simet, Joseph H. Sisson, Jacqueline A. Pavlik, Jane M. DeVasure, Craig Boyer, Xiangde Liu, Shin Kawasaki, John G. Sharp, Stephen I. Rennard, and Todd A. Wyatt, Long-Term Cigarette Smoke Exposure in a Mouse Model of Ciliated Epithelial Cell Function, American Journal of Respiratory Cell and Molecular Biology, Vol 43, Issue 6, November 2009, 10.1165/rcmb.2009-0297OC. The American Journal of Respiratory and Critical Care Medicine is an official journal of the American Thoracic Society. Readers are encouraged to read the entire article for the correct context at https://www.atsjournals.org/doi/10.1165/rcmb.2009-0297OC . The authors, editors,
	Q1 Fig 4	

		and The American Thoracic Society are not responsible for errors or omissions in adaptations.
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