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For the January 2022 exam series

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| ENGLISH | | | |
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| ENGLISH LANGUAGE AS | | | |
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| EN02 | | Text A | Source: Banbury Guardian |

| GEOGRAPHY | | | |
|------------------|--|-----------------------------------|---|
| Geography | | | |
| 9636 | | | |
| GG01A | | Fig 1 Fig 2a & 2b | © Cardiff University. Source EM-DAT Emergency Events Database Chanaral at the Salado River mouth: (a) preflood image (22 July 2013) showing coastline location, Highway 5 and channelized Salado River; (b) postflood image (27 March 2015) showing coastal erosion and breaches of Highway 5, measured flow depths, estimated flow direction, and flood limits (Google Earth, Fuerza Aerea de Chile) An integrated analysis of the March 2015 Atacama floods Andrew C. Wilcox , Cristian Escauriaza , Roberto Agredano , Emmanuel Mignot , Vicente Zuazo , Sebastián Otárola Lina Castro, Jorge Gironás, Rodrigo Cienfuegos, Luca Mao First published: 26 July 2016 https://doi.org/10.1002/2016GL069751 |
| GG01B | | Fig 1 Fig 2a Fig 2b | © Cardiff University. Source EM-DAT Emergency Events Database Map 1 Source: U.S EPA (U.S. Environmental Protection Agency) 2016. Climate change indicators in the United States. https://www.epa.gov/climate-indicators/climate-change-indicators-coastal-flooding Map 2 Source: NOAA (National Oceanic and Atmospheric Administration), 2015 update to data originally published in NOAA 2009. Sea level variations of the United States 1854-2006. NOAA Technical Report NOS CO-OPS 053. http://www.tidesandcurrents.noaa.gov/publications/Tech_rpt_53.pdf For more information visit U.S> EPA's Climate Change Indicators in the United States at www.epa.gov/climatechange/indicators |
| GG02 | | Fig1a & 1b Fig2a | Exhibits from “Digital globalization: The new era of global flows” February 2016, McKinsey Global Institute, www.mckinsey.com Copyright © 2019 McKinsey & Company. All rights reserved. Reprinted by permission. Source BP Statistical Review of World Energy 2016. Our World in Data licensed under Creative Commons CC-BY |

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

| | | |
|-------------|-----------------------------|---|
| BL02 | Q. 1 Fig. 1 | 470474018 Pancreas Anatomy. © iStock.com/ttsz |
| | Q. 3 Fig. 5 | C012/3832 Anatomy of the Heart © MONICA SCHROEDER / SCIENCE SOURCE / SCIENCE PHOTO LIBRARY |
| | Q. 3 Fig. 6 | Nelson BW, Allen NB. Accuracy of Consumer Wearable Heart Rate Measurement During an Ecologically Valid 24-Hour Period: Intraindividual Validation Study. JMIR Mhealth Uhealth 2019;7(3):e10828 https://mhealth.jmir.org/2019/3/e10828/ https://creativecommons.org/licenses/by/4.0/ |
| | Q. 5 Fig. 8 Q. 6 Table 3 | Won Kyung Cho et al (2017) Elevated CEA is associated with worse survival in recurrent rectal cancer. Oncotarget. 8(62): 105936–105941. Creative Commons Licence CC-BY v3.0 Infection with a plant virus modifies vector feeding behaviour, CA Stafford, GP Walker and DE Ullman, Proceedings of the National Academy of Sciences of the United States of America 108(23): 9350–9355. |

BIOLOGY A-LEVEL**9612**

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|-------------|----------------------------------|---|
| BL03 | Q. 2 Fig. 2 | Rita de Cássia Guimarães Mesquita, Paulo Eduardo dos Santos Massoca, Catarina Conte Jakovac, Tony Vizcarra Bentos, G. Bruce Williamson, Amazon Rain Forest Succession: Stochasticity or Land-Use Legacy?, BioScience, Volume 65, Issue 9, 01 September 2015, Pages 849–861, https://doi.org/10.1093/biosci/biv108 © 2015, Oxford University Press |
| | Q. 3 Fig. 3 | HRF5RN - Chloroplast TEM. Science History Images / Alamy Stock Photo 272235413 Snow Goose © Shutterstock/Steve Jamsa 434380678 Mangrove © Shutterstock/Damsea 92216582 Hermit Crab © iStock.com/Serge_Vero |
| | Q. 6 Fig. 9 | 1314971446 Grass Shrimp © iStock.com/PHoyle |
| | Q. 7 Fig 10 | 1204042476 Great blue heron © iStock.com/CodyHaskell |
| BL04 | Q. 2 Fig 4 | Force-length characteristics of in vivo human skeletal muscle by C. N. Maganaris. Acta Physiologica. Volume172, Issue4, August 2001, Pages 279-285© 2001, John Wiley and Sons C048/2206 - Relaxed skeletal muscle, TEM. © THOMAS DEERINCK, NCMIR / SCIENCE PHOTO LIBRARY |
| | Q. 2.3 Fig. 5 | Bioelectromagnetism - Principles and Applications of Bioelectric and Biomagnetis Fields by Plonsey Malmivuo, Jaakko Malmivuo, Robert Plonsey, OUP © 1995 |
| | Q. 5 Fig. 12 Q. 7 Table 2 & 3 | 90181147 Types of pacemaker © Shutterstock/Alila Medical Media Restoration of thermoregulation after exercise. Kenny & McGinn J Appl Physiol 122: 933–944, 2017 © 2017 the American Physiological Society |
| BL05 | Fig. 1 | C013/2961 Spiderwort leaf surface, light micrograph © POWER AND SYRED / SCIENCE PHOTO LIBRARY |
| | Fig. 2 | B745/0462 Open stoma, SEM © DR JEREMY BURGESS / SCIENCE PHOTO LIBRARY |
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