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Q1 Answer: d)  
Explanation: All are correct

Q2 Answer: a)  
Explanation: A proof of concept (POC) is a demonstration, the purpose of which is to verify that certain concepts or theories have the potential for real-world application. POC is therefore a prototype that is designed to determine feasibility, but does not represent deliverables.

Q3 Answer: b)  
Explanation: The Crew Interactive Mobile Companion, or CIMON become the first artificial intelligence-powered personal companion in space. It will verbally communicate step-by-step instructions.

Q4 Answer: d)  
Explanation: China is working on a super-powerful rocket called Long March-9 rocket. It would be capable of delivering heavier payloads into low orbit than NASA. It will be able to carry 140 tonnes into low-Earth orbit — where TV and earth observation satellites currently fly.

Q5 Answer: a)  
Explanation: The Election Commission launched an Android-based mobile application named “cVigil” for citizens. The mobile application facilitates sharing of geo-tagged photographic and video evidence without disclosing the identity of the sender.

Q6 Answer: d)  
Explanation: All are correct

Q7 Answer: b)  
Explanation: Khan Prahari is a tool launched by Coal Mine Surveillance & Management System (CMSMS) for reporting any activity taking place related to illegal coal mining like rat hole mining, pilferage etc.

Q8 Answer: d)  
Explanation: The Pad Abort Test is a major technology demonstrator and the first in a series of tests to qualify a larger Crew Escape System of the future. The test
proves that the agency can bail out future astronauts with their capsule in case of an early danger to them at the launch pad. ISRO carried out a major technology demonstration today, the first in a series of tests to qualify a Crew Escape System, which is a critical technology relevant for human spaceflight.

**Q9** Answer: d)  
Explanation: All are correct

**Q10** Ans: d

**Q11** Answer: d)  
Explanation: Google announced a ‘Launchpad Accelerator India,’ a mentorship program that would aim to support Indian start-ups that deploy artificial intelligence and machine learning to build solutions for local needs

**Q12** Answer: a)  
Explanation: Aarambh is a mobile App for road maintenance in rural areas. The app aims at use of GIS based mapping for making road inventories, condition surveys, producing cost estimates and other relevant data for preparation and monitoring of annual road maintenance plans.

**Q13** Answer: c)  
Explanation: Both are correct

**Q14** Answer: d)  
Explanation: All are correct

**Q15** Answer: b)  
Explanation: The nakshe web portal was launched by the Ministry for Science & Technology and Earth Sciences.

**Q16** Answer: c)  
Explanation: All are correct

**Q17** Answer: d)  
Explanation: Farmers Fertiliser Cooperative Limited (IFFCO) has partnered with Singapore-based technology firm iMandi to start an e-commerce platform for
farmers. It is a ‘one stop shop’ for agri inputs and produce, FMCG, electronics, loans, insurance etc

**Q18** Answer: b)
Explanation: The Vikas engine will improve the payload capability of PSLV, GSLV, and GSLV Mk-III launch vehicles. The Vikas engine is used in the second stage of the light lifting PSLV; the second stage and four add on stages of the medium lift GSLV; and the twin-engine core liquid stage of Mk-III. Vikas is a family of liquid fuelled rocket engines.

**Q19** Answer: c)
Explanation: Both are correct

**Q20** Answer: d)
Explanation: All are correct

**Q21** Answer: c)
Explanation: E- Governance involves the use of ICTs by government agencies for any or all of the following reasons:
- Exchange of information with citizens, businesses or other government departments
- Speedier and more efficient delivery of public services
- Improving internal efficiency
- Reduction of costs and improving revenues
- Restructuring of administrative purposes

**Q22** Answer: a)
Explanation: India will develop lunar orbiter, a lander and a lunar rover by itself. Chandrayaan-2 will be launched by a Geosynchronous Satellite Launch Vehicle (GSLV) using Cryogenic Engine. It will includes a lunar orbiter, a lander and a lunar rover

**Q23** Answer: d)
Explanation: The Voter Verifiable Paper Audit Trail (VVPAT) machines are used during election process to verify that the vote polled by a voter goes to the correct candidate. After a voter presses the button on the EVM against the chosen candidate, the VVPAT prints a slip containing name of the candidate and
the election symbol and drops it automatically into a sealed box. The machines give the chance for the voter to verify their vote. The machines can be accessed, through, by the polling officials and not by the voter.

Q24 Answer: c)
Explanation:
- Operation Digital Board: An initiative has been taken by Government of India to provide interactive digital boards to nearly 15 lakh classrooms across the country.
- SWAYAM PRABHA: A programme for utilization of satellite communication technologies for transmission of educational e-contents through 32 National Channels.
- National Repository of Open Educational Resources (NROER) – an initiative to bring together all digital and digitised resources across all stages of school education and teacher education.
- SWAYAM: A Massive Open Online Courses (MOOCs) platform popularly known as SWAYAM (Study Webs of Active learning for Young Aspiring Minds) has been launched. The portal is offering various online courses for school education and higher education.

Q25 Answer: a)
Explanation: Atal Innovation Mission, NITI Aayog & MyGov launches “Innovate India Platform”. The #Innovate India portal will serve as the common point for all the innovation happening across the nation. The platform is open to all Indian citizens.

Q26 Answer: c)
Explanation: DigiYatra is an industry-led initiative coordinated by the Ministry of Civil Aviation in line with Digital India programme. It aims to transform the flying experience for passengers and position Indian Aviation amongst the most innovative aviation networks in the world. Under this project, the image of passengers will be captured once these passengers will enter the airport. Once passengers establish their identity, they will be able to pass through the entire lifecycle of the travel. There is a separate provision for those who does not want to disclose their identity.

Q27 Answer: d)
Explanation: FASTag is a simple to use, reloadable tag which enables automatic deduction of toll charges and lets you pass through the toll plaza without stopping for the cash transaction. It is linked to a prepaid account from which the applicable toll amount is deducted. The tag employs Radio-frequency Identification (RFID) technology and is affixed on the vehicle’s windscreen after the tag account is active. The vehicle with FASTag doesn’t need to stop at the toll plaza for the cash transaction.

**Q28** Answer: c)  
Explanation: The computerization of defence land records under project ‘Raksha Bhoomi’ to digitize land records was undertaken by the Directorate General of Defence Estates in association with National Informatics Centre. It helps to store electronically the information in both these registers in all the DEO and CEO offices.

**Q29** Answer: d)  
Explanation: United Nation’s released E-Government Development Index 2018. It is the only global initiative to measure and track how governments are faring on the e-governance front. To focus on e-government initiatives is that there is a clear link between greater e-governance and easier public access to government services and a reduction in poverty and inequality. South Korea, scored 0.9010

**Q30** Answer: d)  
Explanation: An expert panel headed by Justice B.N. Srikrishna submitted its report on data protection as well as the draft ‘The Personal Data Protection Bill, 2018’

**Q31** Answer: d)  
Explanation: All are correct
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