**eGovernance Fundamentals : Subjective Test**

**(by** [**www.eGovernance.guru**](http://www.eGovernance.guru)**)**

**Name of Student:**

**Email:**

**Profession:**

**Welcome to the Self Teaching Exam! I hope you have already passed the** [**Objective Type Test**](http://www.egovernance.guru/egovquiz/)**. This Subjective Type Test is Open Book exam, without any Time Limit. As the very first step, please carefully read this** [**Primer on eGovernance**](http://www.egovernance.guru/wp-content/uploads/publications/papers/egov-primer-by-rajesh-aggarwal-2016.pdf)**. You will be able to answer a majority of following questions if you read and think through this Primer. Also go through the Videos available on** [**Study Material**](http://www.egovernance.guru/studymaterial/)**. Many other Hints (external resources) are mentioned throughout the Test. Good Luck!**

Here is the FIRST question.

**Question 1**

**What is full form of GIGO? How can we avoid this pitfall? Give an example in the context of Government departments. (2 marks)**

**Question 2**

**What are full forms of BPR and GPR? Give an example of each. (4 marks)**

**Question 3**

**Give THREE examples of changes required in Acts/Rules for enabling the use of new technologies in eGovernance projects. (HINT: Use of Electronic Voting Machines was challenged in various Courts, and hence required a change in Voting laws.) (3 marks)**

**Question 4**

**What is Pareto Principle (80:20 Rule)? Give an example in the context of eGovernance projects.**  **(2 marks)**

**Question 5**

**Which are THREE major resource earners for the State Governments which should be computerised on priority? Within each of those three departments, also mention the top 2 things which need to be done. (6 marks)**

**Question 6**

**Give TWO examples where BC (Business Correspondents) of Banks with handheld devices (Portable micro-ATMs) can be useful. (2 marks)**

**Question 7**

**Give THREE examples with proper detailing where de-duplicating the databases can save lots of Taxpayers' money. (6 marks)**

**Question 8**

**Give full form of CSC and VLE. Give at least FOUR ways in which VLE can be economically viable. (3 marks)**

**Question 9**

**Give THREE examples from different Government departments where use of citizen service centres can be useful to the citizen. (3 marks)**

**Question 10**

**"Why stand INLINE when you can be ONLINE". Give THREE practical examples, explaining how they were (or can be) achieved. (6 marks)**

**Question 11**

**Bangalore Traffic Police constables on the road use Blackberry phones and thermal printers. By linking to Central servers, and coupled with CCTV coverage, the Government income from traffic challans has increased multifold. Describe at least TWO benefits of this project to the citizen. (2 marks)**

**Question 12**

**Give TWO examples where uploading geo-stamped and time-stamped photographs through smartphones can help in reducing corruption and/or increase revenue. (2 marks)**

**Question 13**

**Give TWO examples where Location Based Services (LBS) can be useful. Give one private service and one government service. (2 marks)**

**Question 14**

**Give THREE examples of use of satellite imagery and Maps in eGov projects.   
(3 marks)**

**Question 15**

**Describe at least THREE benefits of eTendering solution compared to traditional manual tendering system. (3 marks)**

**Question 16**

**Blind persons cannot see the screen, or the mouse movement. Deaf persons cannot hear the sound or instructions in videos. Older persons may have issues with small font size. Color blind persons may have problems in color combinations of background and text. Epileptic patients may have seizures if your website has flashy elements. In this context, explain why Web Accessibility standards are important. Please see** [**W3C**](http://www.w3.org/WAI/intro/accessibility.php) **and** [**Microsoft**](http://www.microsoft.com/enable/) **pages regarding accessibility, as well as** [**this page**](http://barrierbreak.com/)**. (3 marks)**

**Question 17**

**Describe various problems which arise if common, standardised database of District/Taluka/Village names (preferably Census 2011 coding) is not used.   
(3 marks)**

**Question 18**

**Give THREE practical examples where database of one department can be useful to another department. (3 marks)**

**Question 19**

**"Freedom from Location" can really empower the citizens, e.g. allowing picking ration from any ration shop, or property registration from any Registar office. Describe how it empowers the citizen, and how can this be achieved. (3 marks)**

**Question 20**

**What is FIFO (or FCFS) principle? Also give TWO examples where it can be useful to the citizen. Then give TWO examples (apart from infamous 3G case!) where FIFO is NOT good. [Hint: Read my paper on** [**Demand-Supply gap**](http://www.egovernance.guru/wp-content/uploads/publications/papers/esolutions-for-tackling-demand-supply-gap-paper-by-rajesh-aggarwal.pdf)**] (5 marks)**

**Question 21**

**What is GIGW defined by NIC? Mention any four important guidelines. [Hint: Use** [**www.google.com**](http://www.google.com)**, search "GIGW"] (2 marks)**

**Question 22**

**Authentication Framework is based on "What you know, what you have, what you are". Please explain. (3 marks)**

**Question 23**

**What is OTP (One Time Password)? Give two examples where it can be useful.   
(3 marks)**

**Question 24**

**Sometimes there is a possibility that some Government staff may give their username/passwords or even the Digital Signature dongles (along with PIN) to others (subordinates, colleagues, data entry operators, support staff). What is an authentication mechanism which does not suffer from this fault? (2 marks)**

**Question 25**

**What is meant by "Do not re-invent the wheel" in the context of eGov projects? Give TWO examples. (3 marks)**

**Question 26**

**What is Cloud Computing? How can it save dramatically on hardware costs in government projects, and speed up execution process and time taken in rolling out eGov projects? You may read** [**this article**](http://www.egovernance.guru/wp-content/uploads/publications/papers/JAM-paper-by-rajesh-aggarwal-2016.pdf)**. (3 marks)**

**Question 27**

**Watch this** [**NDTV interview with Nandan Nilekani**](http://www.ndtv.com/video/shows/walk-the-talk/walk-the-talk-with-former-uidai-chairman-nandan-nilekani-411127) **about Aadhaar. Also, read** [**this article**](http://thewire.in/24966/the-technocratic-visions-of-nandan-nilekani-what-an-aadhaar-enabled-future-may-look-like/)**. Detail two government services where using Aadhaar can really benefit the citizens. Also list THREE dangers, where UIDAI needs to take care. (6 marks)**

**Question 28**

**Read my** [**Paper on JAM**](http://www.egovernance.guru/wp-content/uploads/publications/papers/JAM-paper-by-rajesh-aggarwal-2016.pdf)**. Detail two government services where use of Mobiles, Aadhaar and electronic payment gateways can really make a difference. (6 marks)**

**Question 29**

**Have a look at the websites THREE** [**http://data.gov**](http://data.gov) **and** [**http://data.gov.in**](http://data.gov.in) **and describe what kind of databases should be put in public domain by any TWO departments you may like to choose. (3 marks)**

**Question 30**

**Some countries like Estonia have introduced Internet Voting. Can you list at least THREE constrains why it might NOT be legal/successful in India? (3 marks)**

**Question 31**

**See the** [**Organisations Page**](http://meity.gov.in/content/dit-organisations) **on the website of MeitY (Ministry of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India). Write down Names of its one organisation, one attached office, one Section 25 Company, and one autonomous Society. (3 marks)**

**Question 32**

**What is crowd-sourcing? Mention TWO government departments or Projects where this concept has been used or can be used. (3 marks)**

**Question 33**

**What is eGov 2.0? Give an example. (Hint: MyGov) (2 marks)**

**Question 34**

**List FIVE existing or potential Mobile Apps to provide government services to the citizens. (3 marks)**

**Question 35**

**What is Digital Locker? Also explain how it can help in knowing about your entitlements in various government schemes. Read my** [**Paper on DigiLocker**](http://www.egovernance.guru/wp-content/uploads/publications/papers/Digital-Locker-paper-by-Rajesh-Aggarwal-2016.pdf) **before answering this question. (4 marks)**

**Question 36**

**What is eSign? What are its benefits over dongle based digital signature? (3 marks)**

**Question 37**

**How can DRONES be useful to government? Give THREE examples from three different sectors. (3 marks)**

**Question 38**

**How can 3-D printing be useful? Give examples from THREE different fields (not necessarily government). (3 marks)**

**Question 39**

**See** [**this video**](https://www.youtube.com/watch?v=QSIPNhOiMoE) **on Internet of Things (IoT) and then list THREE use cases of IoT in eGovernance projects (3 marks)**

**Question 40**

**In his book “Geek Heresy: Rescuing Social Change from the Cult of Technology”, Kentaro Toyama argues that while it is widely accepted that we can find technological solutions to the world's most troubling social and economic problems, technology is never the main driver of progress. See** [**this video**](https://www.youtube.com/watch?v=epKnXZlTMmc)**. What are your thoughts about this? (3 marks)**

**CONGRATS! You have come to the end of the Subjective Test (of 130 Marks). You can still go back and change your answers, or you can Save your work and come back later any time before Final Submission. We hope you have done lot of reading and thinking while answering various questions, and enjoyed this innovative way of learning while attempting an exam.**

**Mail the properly typed answer sheet (WORD document) to**[**rajeshaggarwal.ias@gmail.com**](mailto:rajeshaggarwal.ias@gmail.com)

**I will check your answer sheet personally, and give you feedback. If there are any shortcomings mentioned in the feedback, you can modify the answers and re-submit. Once you do well, we will have a face-to-face Interview or Video Interview (Skype or Facetime etc.), which will lead to Certification. (All free of cost, of course!) We want an Army of eGovernance Gurus!**