

IT Passport Examination

Sample Questions

Strategy

Major category 1: Corporate and legal affairs

Middle category 1: Corporate activities

1. Management and organization theory

Q1. Which of the following is the organization that is established by selecting personnel from related departments, who have the required skills and experiences, to perform system development?

- a) Divisional organization b) Functional organization
c) Project organization d) Matrix organization

2. OR and IE

Q2. A list of activities for a project plan is shown below. Which of the following represents it as an arrow diagram?

[List of activities]

Activity	Preceding activities
A	None
B	None
C	A
D	A, B

3. Accounting and financial affairs

Q3. Which of the following should be inserted in the blank box A of the income statement shown below? Here, the shaded boxes are intentionally left blank.

Income statement

Major category 1: Corporate and legal affairs

Middle category 2: Legal affairs

4. **Intellectual property rights**

Q4. Among the actions involving a commercially available book of landscape pictures without obtaining the author's permission, which of the following is illegal under the Copyright Act?

- a) Taking a photograph of the same object as a photograph you like
- b) Cutting out a photograph from the book and putting it on the wall of your room
- c) Placing and publishing a photograph from the book on your Web page
- d) Describing comments about the photograph book in your blog

5. **Laws on security**

Q5. Which of the following is considered unauthorized access under the Act on the Prohibition of Unauthorized Computer Access?

- a) Having access to a shared server and copying a software package illegally without permission

- b) Having access to a computer via the Internet by using other people's passwords
- c) Posting accessible information that libels others on the Internet
- d) Having access to a website with obscene pictures

6. Laws on labor and transaction

Q6. Which of the following explains the Labor Standards Act?

- a) A law that guarantees minimum wages for the stability of lives and the improvement in manpower quality
- b) A law enacted to improve the welfare of part-time workers
- c) A law about business that dispatches workers with the required skills to companies
- d) A law that regulates minimum standards for labor conditions, such as working hours, breaks, and vacations

7. Other laws, guidelines, and engineer ethics

Q7. Company X, which is “a business operator handling personal information,” held a seminar for individual customers to promote the sales of their products, which included a questionnaire for the participants at the end. The questionnaire sheet stated that the purpose for obtaining personal information was to offer information about future products; the company asked for the customer's name, address, telephone number, and whether or not they wanted the information. Which of the following actions by Company X is illegal in light of the Act on the Protection of Personal Information?

- a) A list of customers was created from the collected questionnaires, and direct mails were sent to the customers who wanted information about products.
- b) The collected questionnaires and the customer list created after the seminar were stored in a locker with a key, except when they were necessary.
- c) For sales promotion of the product by Company Y, which is an associated company of Company X, Company X handed the customer list created from the collected questionnaires over to Company Y based on the judgment of Company X.
- d) A customer who had wanted information about products contacted Company X to change the address, so Company X changed the customer list after verifying the identity of the customer and the desire to receive further information.

8. Standardization

Q8. Which of the following describes the characteristics of the QR Code in the figure shown below?

- a) It compresses and symbolizes an image and is used for communication of information.
- b) It contains only about 10 bytes of information and is used for encryption of commercial product codes.
- c) It is a kind of two-dimensional bar code and can record much information, including alphanumeric characters, Kanji characters, etc.
- d) It is the code developed for use in IC tags and can be used for noncontact-based merchandise management.

Major category 2: Business strategy

Middle category 3: Business strategy management

9. Business strategy techniques

Q9. A SWOT analysis is an analysis method that examines opportunities and threats, and strong and weak points in planning strategy. Which of the following is included in the scope of subjects to evaluate strong and weak points?

- a) The number of competitive companies b) Prices of its own products
- c) Growth of the targeted market d) Trends in Japanese economy

10. Marketing

Q10. Which of the following explains one-to-one marketing?

- a) It assumes the status of the company from its market share and performs activities suitable for the status.
- b) It satisfies each customer's need rather than targeting a group called a market.
- c) It develops the products and marketing mix suitable for the needs of the segment.
- d) It produces and distributes a single product in large volumes, targeting all customers.

11. Business strategy and goal/evaluation

Q11. Which of the following is the perspective of a balanced scorecard other than three perspectives: financial, customer, and business processes?

- a) Learning and growth b) Communication
- c) Product d) Advantage

12. Business management system

Q12. Which of the following explains SCM?

- a) This is a technique that strengthens relations with customers and connects them to improvement in corporate earnings by managing the exchanges with customers consistently while sharing information between the departments related to customers.
- b) This is a technique of sharing the objective knowledge, experiences, and know-how, which each employee obtained from business activities, as the knowledge of the whole company with a network.
- c) This is a technique for centrally managing the data generated at business tasks, such as sales, production, accounting, and personnel affairs, with an integrated database, and understanding the situation of each operation department in real time.
- d) This is a technique of optimizing the whole business process by sharing and managing information between the companies and the departments that participate in a series of processes from procurement of components to production, distribution, and sales.

Major category 2: Business strategy

Middle category 4: Technological strategy management

13. Planning of technology development strategy and technology development plan

Q13. This is a technique used for the prediction of future technology trends that are needed for planning technical development strategies. Collection of opinions from multiple experts, statistical analysis of collected opinions, and feedback of the analyzed opinions are repeated to form an opinion. Which of the following is this technique?

- a) Scenario writing b) Delphi method
- c) Brainstorming d) Role-playing

Major category 2: Business strategy

Middle category 5: Business industry

14. Business system

Q14. This is a card that the card companies issue to members in cooperation with banks and stores. The member has only to present a card when shopping, without paying cash. Accounts will be settled later based on the contract between the card companies and consumer members. Which of the following is the card?

- a) ID card b) Credit card
- c) Debit card d) Prepaid card

Q15. Which of the following describes the characteristics of a traceability system?

- a) This uses computers for solutions by compiling a database or creating a program with expertise in the fields that need professional knowledge, such as medical diagnosis.
- b) This delivers ordering information to business partners from a handy terminal successively so that a shortage of goods may not take place in retail stores.
- c) This makes it possible to track history information about production and distribution of food from the consumption location back to the production location.
- d) This supports unprogrammed decision-making for solving management problems interactively.

15. Engineering system

Q16. When profit per month that can be calculated from the table is the largest, how many pieces of Product *B* are produced in one month? Here, the person-days per month are 280.

	Profit per product (yen)	Workload per product (person-days)	Production capacity per month (pieces)
Product A	200,000	4	25
Product B	160,000	4	30
Product C	90,000	3	40

a) 15 b) 20 c) 25 d) 30

16. e-business

Q17. Which of the following forms of EC (Electronic Commerce) is B2C?

- a) A company places an order with an external vendor for materials using Web-EDI.
- b) An employee applies for service with a discount privilege on the sales site for employees in a company.
- c) A company submits an electronic bid for construction work for which the country or the local governments place an order.
- d) A customer purchases books at an online shop in a virtual mall.

17. Consumer appliances and industrial devices

Q18. What are the products, such as television sets, refrigerators, and air conditioners equipped with a communication facility connectable to networks, such as the Internet, called collectively?

- a) AV household appliances b) PC household appliances
- c) Intelligent home appliances d) Multifunctional household appliances

Major category 3: System strategy

Middle category 6: System strategy

18. Information systems strategy

Q19. Which of the following is the model that can be used for representing the target business tasks in planning of an information systems strategy to clarify what the information system should be?

- a) Waterfall model b) Spiral model
- c) Business process model d) Prototyping model

19. Business process

Q20. Which of the following is the concept of reviewing an existing organization and business rules radically and redesigning job roles, workflows, administrative functions, and information systems?

- a) BPR b) ERP c) RFP d) SLA

20. Solution business

Q21. Which of the following is a service that offers application functions via the Internet, characterized by the multi-tenant system, where one system is used by multiple companies?

- a) ISP (Internet Service Provider) b) SaaS (Software as a Service)
- c) Housing service d) Hosting service

21. System utilization promotion and evaluation

Q22. Which of the following is the appropriate description of information literacy?

- a) It means the economic disparities between those who have information technology skills and those who do not have them, which arise from computerization such as whether or not one owns a PC.
- b) It means the ability to handle information, or equivalently, to organize, store, and analyze information using a PC as well as collect and transmit information through the Internet and other means.
- c) It means the organizational ability to guide the business organization in developing and implementing an IT strategy and to lead it in the direction in which it should go for the purpose of establishing competitive leadership.
- d) It means the level of availability of information communications devices, software, and information services to all people including handicapped persons and senior

citizens.

Major category 3: System strategy

Middle category 7: System planning

22. Computerization planning

Q23. Which of the following is an activity included in systematization planning?

- a) Functional requirements definition
- b) System requirements definition
- c) Software requirements definition
- d) Study of the entire development schedule

23. Requirements definition

Q24. As shown in the figure, when the software life cycle is classified into the operation process, development process, planning process, maintenance process, and requirements definition process, which of the following should be inserted in the box A?

- a) Operation process b) Development process
- c) Planning process d) Requirements definition process

24. **Procurement planning and implementation**

Q25. Which of the following is the item that the ordering company should describe in a request for proposal to clarify the details of transaction contracts for software or services?

- a) Person-days b) Basic policy of the system
- c) Program specifications d) Estimated cost

Management

Major category 4: Development technology

Middle category 8: System development technology

25. **System development technology**

Q26. When the information system department performs the procedure of the requirements definition, system design, programming, and testing in the flow of software development, which of the following most needs the participation of the user departments?

- a) Requirements definition b) System design
- c) Programming d) Unit test

Q27. When the scale of software development is estimated, which of the following is an appropriate element that should be considered?

- a) Developer's skills b) Development organization
- c) Number of screens d) Schedule

Q28. Which of the following shows part of the phases of software development in the order of implementation?

- a) System design, testing, programming
- b) System design, programming, testing
- c) Testing, system design, programming
- d) Programming, system design, testing

Major category 4: Development technology

Middle category 9: Software development management techniques

26. [Development process and methods](#)

Q29. Which of the following is the software development model that performs the requirements definition, system design, programming, and testing in that order, and checks carefully so as not to return to the previous phase when each phase is completed?

- a) RAD (Rapid Application Development)
- b) Waterfall model
- c) Spiral model
- d) Prototyping model

Major category 5: Project management

Middle category 10: Project management

27. [Project management](#)

Q30. When one day is reduced for Activity *C* and three days are reduced for Activity *B* in the arrow diagram shown below, how many days can be reduced in total?

a) 1 b) 2 c) 3 d) 4

Q31. Which of the following is described in a project plan?

a) Screen layout b) Workflow

c) Schedule d) Program structure

Q32. It takes 24 days for Mr. *A* to complete a certain software development and 12 days for Mr. *B*. When both Messrs. *A* and *B* work together, 25% of all the working hours in a day are needed for preliminary discussion. When both Messrs. *A* and *B* work together, how many days does it take to complete the development?

a) 6 b) 8 c) 11 d) 12

Major category 6: Service management

Middle category 11: Service management

28. Service management

Q33. Which of the following is appropriate as an item for evaluating the service level to the user of a system?

a) The cost concerning the system development

b) The recovery time from system failure

c) The number of programs that make up the system

d) The number of disk input/output

29. Service support

Q34. Which of the following is responsible for receiving various inquiries, such as operations of the product, solutions at the time of troubles, and complaints from the users of the system?

- a) Access counter
- b) Webmaster
- c) Data center
- d) Help desk

30. **Facility management**

Q35. Which of the following is the appropriate description concerning the introduction of an uninterruptible power supply (UPS)?

- a) The highest priority device that should be connected to the UPS is a network printer shared by each PC.
- b) There is a limit in the capacity of the UPS, so the measure to shut down within several minutes after detecting a power failure is required.
- c) The UPS has a power generation function, so it is effective if it connects the computers, lighting, television sets, and other appliances.
- d) The UPS uses a special battery that can be used semi-permanently, so the maintenance cost after introduction is unnecessary.

Major category 6: Service management

Middle category 12: System audit

31. **System audit**

Q36. Which of the following shows the steps of system audit in the order of implementation?

- a) Planning, investigation, report
- b) Cause investigation, correction, test
- c) Design, programming, test
- d) Requirements definition, proposal request, proposal evaluation

32. Internal control

Q37. Which of the following is included in the internal control for inhibiting an employee's dishonesty?

- a) Publishing the information security plan of a company on the Internet
- b) Assigning separately the operator and approver of a business task
- c) Supporting events as corporate sponsors which are held by cities, towns, and villages for contribution to regional vitalization
- d) Taking the measures against mass media to avoid the deterioration of corporate image by the revealed scandal

Technology

Major category 7: Basic theory

Middle category 13: Basic theory

33. Discrete mathematics

Q38. Which of the following is the binary number obtained by adding binary number 1111 and binary number 101?

- a) 1111 b) 1212 c) 10000 d) 10100

34. Applied mathematics

Q39. A test consisting of two questions, question 1 and question 2, was given. Among 100 examinees, 65 correctly answered question 1 and 73 correctly answered question 2. At least how many examinees correctly answered both questions?

- a) 35 b) 38 c) 62 d) 65

35. Theory of information

Q40. At least how many bits are required to indicate the length from 0 mm to 1,000 mm in the unit of millimeters?

- a) 4 b) 10 c) 1000 d) 1001

Major category 7: Basic theory

Middle category 14: Algorithm and programming

36. Data structure

Q41. There is a device where articles are accumulated upwards from the bottom and taken out from upwards in sequential order. There are two kinds

of operations for this device.

PUSH n : Accumulate an article (number n)

POP: Extract one article from the top

If no articles are accumulated at the beginning,

which of the following is the result of the operations?

PUSH 1 → PUSH 5 → POP → PUSH 7 → PUSH 6 →

PUSH 4 → POP → POP → PUSH 3-

a)		b)		c)		d)	
	1		3		3		6
	7		4		7		4
	3		6		1		3

37. Algorithm

Q42. When the procedure described below is repeated to sort five numbers in ascending order, how many times is the procedure repeated until sorting is completed?

[The order of data before sorting]

5, 1, 4, 3, 2

[Procedure]

(1) If the 1st data > the 2nd data, replace the 1st and 2nd data.

(2) If the 2nd data > the 3rd data, replace the 2nd and 3rd data.

(3) If the 3rd data > the 4th data, replace the 3rd and 4th data.

(4) If the 4th data > the 5th data, replace the 4th and 5th data.

(5) When no replacement occurs, sorting is completed.

When replacement occurs, repeat the procedure from (1).

a) 1 b) 2 c) 3 d) 4

38. **Programming and programming languages**

Q43. Which of the following is appropriate as the role of a programming language?

a) It enables humans to read programs automatically generated by computers.

b) It describes the number of data processed by computers.

c) It describes the procedures for computers.

d) It makes an imperfect program written by programmers into a perfect one.

39. **Other languages**

Q44. Which of the following is the language used for creating a Web page on the Internet?

a) BMP b) FTP c) HTML d) URL

Major category 8: Computer system

Middle category 15: Computer component

40. Processor

Q45. Which of the following is always required so that software can run on a PC?

- a) Keyboard b) Network
- c) Printer d) Memory

41. Memory

Q46. Which of the following is the memory used in SD cards?

- a) CD-ROM b) DRAM
- c) SRAM d) Flash memory

42. Input/output devices

Q47. Among the connection interfaces for PCs and peripheral devices, which of the following uses electromagnetic waves for the transmission of signals?

- a) Bluetooth b) IEEE 1394 c) IrDA d) USB 2.0

Major category 8: Computer system

Middle category 16: System component

43. System configuration

Q48. Which of the following is the configuration where the computers connected to the network use resources of each other, such as data, on equal terms?

- a) Client-server b) Streaming
- c) Peer-to-peer d) Mailing list

44. System evaluation indexes

Q49. For improvement in system reliability, there are a measure to prevent failures and a measure to continue operating the system even if a failure occurs. Which of the following is a measure to continue operating the system even if a failure occurs?

- a) Replacing with the devices that do not fail easily
- b) Configure redundant devices that constitute the system
- c) Preparing an operation manual to prevent operators from performing incorrect operations
- d) Performing operations incorporating the scheduled maintenance for the devices

Major category 8: Computer system

Middle category 17: Software

45. Operating system

Q50. Which of the following is the appropriate description concerning an OS that runs on PCs?

- a) Software that manages hardware and applications on a PC
- b) Software for viewing Web pages
- c) Software for transmitting and receiving e-mail
- d) Software for creating and editing documents

46. File system

Q51. In the hierarchical structure shown in the figure, two or more directories with the same names *A* and *B* are located. Which of the following specifies file "*f*" in the directory indicated by an arrow from the directory with the "." (current directory)? Here, the file specification method is as follows:

[Specification method]

(1) Like "Directory name\ ... \ directory name\file name", place the directories on the path by using "\" as a delimiter in correct order and then place "\" and the file name.

(2) Indicate the current directory with "." (one dot).

(3) Indicate the parent directory (one level up within hierarchy) with ".." (two dots).

(4) When it begins with "\", the root directory is omitted at the left end.

- a) .\B\f b) ..\.\B\f c) ..\A\.\B\f d) ..\B\f

Q52. When important files are replicated in preparation for possible hard disk failures, which of the following is the most appropriate method?

- a) Replicating the files on a different hard disk, attaching version numbers to the file names
- b) Finding the available hard disk space for every operation to place replicated files there
- c) Replicating the files with the same file name on the hard disk used for the last replication
- d) Replicating the files with different file names on the same hard disk as that storing them

47. Development tools

Q53. Which of the following is the purpose of using a multimedia authoring tool?

- a) It is used for creating multimedia content combining materials, such as images, sounds, and characters.
- b) It is used for building the network environment that handles multimedia information, including images, sounds, and characters.
- c) It is used for searching for multimedia information, including images, sounds, and characters on the Internet.

d) It is used for building the database that consists of multimedia information, including images, sounds, and characters.

48. **Open source software**

Q54. Which of the following is the advantage of using open source software?

- a) It can be used free of charge, including support.
- b) There are no restrictions on modifying the source code.
- c) Security is assured because there are no vulnerabilities in the software.
- d) It can run on every operating system.

Major category 8: Computer system

Middle category 18: Hardware

49. **Hardware (computer and I/O device)**

Q55. Which of the following is the input device that detects the moving direction and distance and reflects it on the cursor movement on the screen?

- a) Keyboard b) Touch panel
- c) Bar code reader d) Mouse

Major category 9: Technology element

Middle category 19: Human interface

50. **Human interface technology**

Q56. Which of the following is the appropriate GUI (Graphical User Interface) component used to select one from multiple alternatives?

- a) Scroll bar b) Push button
- c) Progress bar d) Radio button

51. Interface design

Q57. When Web pages are created with due consideration for ease of use, which of the following points should be kept in mind?

- a) The fundamental screen structure and buttons should be displayed and placed in an easily understood manner on each page, without unifying the whole website.
- b) When there are many options, they should be divided into groups or hierarchies to make them easy to select.
- c) The title of a page should be named so that the developer can understand easily when the page contents are updated.
- d) When you want the user to move to another page, you should make the page switch automatically, rather than prompt the user to select the link for the destination.

Major category 9: Technology element

Middle category 20: Multimedia

52. Multimedia technology

Q58. Which of the following is the appropriate description concerning the JPEG format?

- a) It is an encoding format for images with up to 256 colors.
- b) It is an encoding format for audio.
- c) It is an encoding format for static images.
- d) It is an encoding format for videos.

53. Multimedia application

Q59. Which of the following is the appropriate explanation of virtual reality?

- a) It enables recognition of the overall picture immediately not by displaying an image from the top gradually but by displaying a coarse mosaic-like image first and then displaying a clear and vivid image gradually.
- b) It enables seeing and hearing the objects and spaces that are generated by computers like the actual world using computer graphics etc.
- c) Instead of the wind tunnel test used for the design of cars and airplanes, it conducts simulation tests using computers.
- d) It creates the composite image of scenery and people shot separately to make an image that is different from the real world.

Major category 9: Technology element

Middle category 21: Database

54. Database architecture

Q60. Which of the following is appropriate as a role that a database management system plays?

- a) It compresses data to increase the available capacity of a disk.
- b) It encrypts the data transmitted to a network.
- c) It enables multiple computers to share a magnetic disk.
- d) It enables multiple users to share a large amount of data.

55. Database design

Q61. In handling a database, the key to specify a record is required. Which of the following is the appropriate key to specify a record in the student management table of a certain school year?

- a) Name b) Address
- c) Student number d) Birth date

56. Data manipulation

Q62. Which of the following is the membership number of the woman whose present address and work location are both Tokyo in the member list table?

Member list				
Membership number	Name	Sex	Present address	Work location
0001	Akio Tanizawa	Male	Saitama Prefecture	Tokyo
0002	Masato Toyonaga	Male	Tokyo	Tokyo
0003	Mayumi Akiyama	Female	Chiba Prefecture	Saitama Prefecture
0004	Yuka Kasai	Female	Tokyo	Tokyo
0005	Kenta Yamauchi	Male	Saitama Prefecture	Saitama Prefecture
0006	Nobuko Yamamoto	Female	Chiba Prefecture	Tokyo

- a) 0001 b) 0003 c) 0004 d) 0006

57. Transaction processing

Q63. Which of the following is the problem that may occur when multiple users change one file and overwrite it concurrently?

- a) Many files with the same name are created and the users cannot distinguish them.
- b) Only the contents overwritten by the last user remain, and the previous modifications are lost.
- c) The file is moved onto the PC of the user who modified the file previously, and other

users cannot find the file.

d) Modified contents are automatically added at the end of the file and the file size increases.

Major category 9: Technology element

Middle category 22: Network

58. Network architecture

Q64. Which of the following is the appropriate explanation of LAN?

- a) The protocol for transmitting and receiving e-mails on the Internet
- b) The network that provides high speed communication between the computers in a comparatively narrow area, such as inside of the same building
- c) The network that connects geographically distant Base *A* and Base *B* using telephone lines or dedicated lines to provide communication
- d) The standard protocol of the Internet used for network control

59. Communications protocol

Q65. What is the convention and rules that both sides should observe about error detection, retransmission control, and selection of communication pathways for data flowing through channels, in communication between computers via a network?

- a) Address b) Interface
- c) Domain d) Protocol

60. Network application

Q66. When Mr. A sent an e-mail to Mr. B, Mr. A specified Mr. C as "cc" and Mr. D and Mr. E as "bcc." Which of the following is an appropriate explanation at that time?

- a) Mr. B understands that the mail from Mr. A was sent to Mr. D and Mr. E.
- b) Mr. C understands that the mail from Mr. A was sent to Mr. D and Mr. E.
- c) Mr. D understands that the mail from Mr. A was sent to Mr. E.
- d) Mr. E understands that the mail from Mr. A was sent to Mr. C.

Q67. When you send broadcast mails to a large number of predetermined people, which of the following is used to specify the destinations easily?

- a) bcc b) Mailing list
- c) Mail transfer d) Mailbox

Major category 9: Technology element

Middle category 23: Security

61. [Information security](#)

Q68. Which of the following describes social engineering?

- a) It collects a user's personal information via a questionnaire on a website.
- b) It analyzes the utilization history of on-line shopping to predict the product that the customer is likely to buy.
- c) It collects the e-mail addresses publicly available on the website to transmit the e-mails for advertisements to many people.
- d) It picks a piece of paper on which a password is written out of a trash can to obtain a user's password, and pretend to be the user when using a system.

62. [Information security management](#)

Q69. Which of the following is the appropriate description concerning formulation of the information security policies in a company?

- a) They are common in each type of industry, so creating original policies in each company is not required.
- b) They are created by a system administrator and care must be taken not to let anyone else know about them.
- c) The concepts and measures for information security in the company are clearly described in a document.
- d) The configuration of a firewall is determined and documented.

Q70. Which of the following is the most appropriate description concerning management of the user IDs and passwords in system operations?

- a) Each business system uses a different user ID and password. The user must carry a list to prevent input mistakes.
- b) The company prompts all the employees to change their passwords periodically, and the users themselves change their passwords.
- c) A system distributes the word chosen from the dictionary at random to each user. The user uses it for a password up to a periodic date of update.
- d) The users are encouraged to use a numeric string that is easy to memorize and easy to use, such as their birthdays and telephone numbers, as their passwords.

63. **Information security measures and information security implementation technology**

Q71. Which of the following is the appropriate description of measures against computer viruses?

- a) Virus checking is unnecessary while the PC is operating normally.
- b) The virus definition file in antivirus software is updated to the latest one.
- c) Virus checking is unnecessary if the digital signature is attached to the program.
- d) Virus checking is unnecessary for the software that one of your friends gave you.



Answers to sample questions

Question No.	Answer	Question No.	Answer	Question No.	Answer
Q1	c	Q26	a	Q51	b
Q2	c	Q27	c	Q52	a
Q3	c	Q28	b	Q53	a
Q4	c	Q29	b	Q54	b
Q5	b	Q30	b	Q55	d
Q6	d	Q31	c	Q56	d
Q7	c	Q32	c	Q57	b
Q8	c	Q33	b	Q58	c
Q9	b	Q34	d	Q59	b
Q10	b	Q35	b	Q60	d
Q11	a	Q36	a	Q61	c
Q12	d	Q37	b	Q62	c
Q13	b	Q38	d	Q63	b
Q14	b	Q39	b	Q64	b
Q15	c	Q40	b	Q65	d
Q16	d	Q41	c	Q66	d
Q17	d	Q42	d	Q67	b
Q18	c	Q43	c	Q68	d
Q19	c	Q44	c	Q69	c
Q20	a	Q45	d	Q70	b
Q21	b	Q46	d	Q71	b
Q22	b	Q47	a		
Q23	d	Q48	c		
Q24	d	Q49	b		
Q25	b	Q50	a		