

Q.1 Which government department is responsible for cadastral survey in HK?

- A. Architectural Services Department;
- B. Buildings Department;
- C. Lands Department;**
- D. Land Registry

Q.2 When was the Land Survey Ordinance (Cap. 473) enacted?

- A. 1985;
- B. 1990;
- C. 1995;**
- D. 2000

Q.3 Which of the following is the oldest legal title map in the N.T.?

- A. A Sheet;
- B. B Sheet;
- C. Cad-Svy Sheet;
- D. D.D. Sheet**

Q.4 How many Authorized Land Surveyors are practising as at the end of 2002?

- A. 19;
- B. 20;**
- C. 21;
- D. 22

Q.5 Currently, how many D.D. lots are there in the N.T. approximately?

- A. 7 000;
- B. 50 000;
- C. 130 000;
- D. 210 000**

Q.6 When was the survey of D.D. lots started after China had granted the lease of the N.T. to Britain ?

- A. 1894;**
- B. 1898;
- C. 1904;
- D. 1921

Q.7 Who can carry out land sub-division survey under the Land Survey Ordinance (Cap. 473)?

- A. Authorized Land Surveyors;**
- B. Registered Professional Surveyors;
- C. (A) and (B);
- D. Any surveyors

Q.8 What was the purpose of the D.D. survey carried out by the British-HK Government in the late 1890's?

- A. To map the terrain;
- B. To survey the vegetation;
- C. To collect tax;**
- D. To construct roads

Q.9 At which Government office can you check out the boundary of your land parcel?

- A. District Survey Office;**
- B. District Planning Office;
- C. Land Administration Office;
- D. District Office

Q.10 Who can accurately set out your land parcel?

- A. Architects;
- B. Town Planners;
- C. Land surveyors;**
- D. Lawyers

Q.11 Due to what nature of Earth is geodetic surveying needed?

- A. Climate;
- B. Magnetic field;
- C. Spheroidal shape of Earth;**
- D. Gravitation

Q.12 In the Global Positioning System, what is the approximate number of active satellites in the orbit as at the date of March 2002?

- A. 5;
- B. 25;**
- C. 45;
- D. 65

Q.13 What does geodetic surveying deal with?

- A. Establishing horizontal reference network;
- B. Establishing vertical reference network;
- C. Measuring Earth crustal deformation;
- D. All of above**

Q.14 What do you think the positional accuracy reported by your GPS-watch is about?

- A. 1cm;
- B. 1m;
- C. 10m;
- D. 100m**

Q.15 Do you know how high is the positional accuracy given by an expert-type GPS receiver used by land surveyors after doing some data processing?

- A. 1mm to 10mm;**
- B. 1cm to 10cm;
- C. 50cm to 100cm;
- D. 1m to 100m

Q.16 Which one is the function of a trigonometrical station (a pillar of about 1m tall) erected up the hill ?

- A. For decoration;
- B. To detect earth movement;
- C. As a horizontal reference point;**
- D. To counteract lightning

Q.17 By using how many years's tidal information was the mean sea level of Hong Kong derived?

- A. 5 years;
- B. 11 years;
- C. 15 years;**
- D. 19 years

Q.18 What does the Hong Kong Principal Datum (HKPD) mean?

- A. A reference point;**
- B. A vertical reference level;
- C. A survey area;
- D. No idea!

Q.19 Where can we obtain the coodinates of Urban Survey Marks as we see on the streets?

- A. Post Office;
- B. District Survey Office;**
- C. District Office;
- D. Land Registry

Q.20 Which grid system is currently used in Hong Kong?

- A. HK1963;
- B. HK1976;
- C. HK1980;**
- D. HK2000

Q.21 What does a "benchmark" denote in surveying?

- A. To mark a known height level;**
- B. To mark the land boundary;
- C. To mark the progress of works;
- D. To mark the name of the landowner

Q.22 Which map projection is currently used in Hong Kong for the HK80 Grid System?

- A. Cassini;**
- B. Miller Cylindrical;
- C. Lambert Conformal Conic;
- D. Transverse Mercator

Q.23 Who was the earliest to make maps by cutting on clay tiles?

- A. Babylonians;**
- B. Chinese;
- C. Egyptian;
- D. Greek

Q.24 How long does 1cm on a 1:1000 map represent on ground?

- A. 0.1m;
- B. 1m;
- C. 10m;**
- D. 100m

Q.25 What does a cartographer do in making a map?

- A. Design of symbology, colour scheme and all other graphics.;
- B. Classification of thematic data;
- C. Generalization of survey data;
- D. All of above**

Q.26 What are the common forms of geographic features?

- A. Vector and Raster;**
- B. Graphic and Text;
- C. Point and Line;
- D. Table and Database

Q.27 Which of the following type of coordinates that is measured over a flat map converted from the ellipsoidal earth?

- A. Geographic Coordinates;
- B. Projection Coordinates;
- C. Ground Coordinates;
- D. Map Coordinates**

Q.28 Which of the following description is incorrect for "Resolution"?

- A. Smallest gap / distance represented;
- B. Determined by spacing of a resolution grid;
- C. Determined by the size of a pixel;
- D. Storage size of a geographic feature**

Q.29 What are three primary colours?

- A. Blue, Green and Red;**
- B. Yellow, Cyan and Magenta;
- C. Black, White and Blue;
- D. Red, Green and Yellow

Q.30 Which of the following Chinese city is NOT shown on the map "Hong Kong in its Regional Setting

- A. Guangzhou;
- B. Shanghai;**
- C. Dongguan;
- D. Macau

Q.31 Which of the following item is NOT shown on a nautical chart?

- A. Water current;**
- B. Water depth;
- C. Buoy;
- D. Coastal facility

Q.32 What is the major credit of GIS over CAD?

- A. Graphical interface;
- B. Data layering;
- C. Spatial analysis;**
- D. Data editing

Q.33 When did Lands Department begin the digitization of maps and land information using GIS technologies?

- A. 1986;
- B. 1989;**
- C. 1991;
- D. 1994

Q.34 Which of the following is an example of GIS application?

- A. To analyze the trend of hill fires;
- B. To analyze the change in land use;
- C. To find out the shortest path for a vehicle;
- D. All of above**

Q.35 What does geographic information system (GIS) software contain?

- A. A database of both geographical and textual data;
- B. A tool for data editing and query;
- C. A graphical display;
- D. All of above**

Q.36 In land surveying, what does GIS stand for?

- A. Geological investigation system;
- B. Geographic infrastructure service;
- C. Geographic information system;**
- D. Geodetic information system

Q.37 What is the functionality of GIS for surveyors?

- A. Integrate a variety of data sources and types;
- B. Maintain and manage inventories;
- C. Visualize data and related information;
- D. All of the above**

Q.38 What is Metadata?

- A. Information about data;
- B. Data format for UNIX;
- C. Data format for Arc/Info;
- D. Graphical data**

Q.39 What is topology?

- A. Spatial relationship between objects;**
- B. Information about topographic features;
- C. Information about relief;
- D. Information about elevation

Q.40 Which of the following Function is accessory to Data Analysis Operation?

- A. Output and visualization;
- B. Data manipulation;
- C. Overlay;**
- D. Management

Q.41 GIS is a computer-based system that provides which of the following capability?

- A. Data input and output;
- B. Data retrieval and storage;
- C. Data analysis and manipulation;
- D. All of the above**

Q.42 Which of the following is NOT an engineering survey activity?

- A. Geological investigation;**
- B. Calculation of earthworks quantity;
- C. Monitoring of settlement of ground;
- D. Setting out of construction design

Q.43 Which of the following is the duty of a land surveyor in a construction site?

- A. Setting out;
- B. Earthworks computation;
- C. Monitoring of structure;
- D. All of the above**

Q.44 Which of the following is NOT the duty of a land surveyor in the construction of roads?

- A. Design of road alignment;
- B. Setting out of design;
- C. Checking the as-built position and level;
- D. Design of road surfacing material**

Q.45 Which of the following is NOT the duty of a land surveyor in the construction of a housing estate?

- A. Making site plans;
- B. Certifying building plans;**
- C. Checking the level of bore piles;
- D. Checking the verticality of a building

Q.46 In general, whom is a land surveyor providing service to in the construction industry?

- A. Architect;
- B. Estate surveyor;
- C. Engineer;**
- D. Town planner

Q.47 Which of the following service is not provided by a land surveyor working in a railway project?

- A. Directing a tunnelling blasting machine;
- B. Measuring track defects;**
- C. Setting out railway construction works;
- D. Deformation monitoring of above- and underground structures

Q.48 Which government department provides marine charting service?

- A. Civil Aviation Department;
- B. Environmental Protection Department;
- C. Marine Department;**
- D. Water Supplies Department

Q.49 By what principle does sounding survey work?

- A. Echo effect of acoustic wave;**
- B. Reflection of laser;
- C. Light deflection;
- D. Doppler's Effect

Q.50 How many tide gauges are set up in Hong Kong?

- A. 4;
- B. 6;
- C. 8;**
- D. 10

Q.51 What is the average tidal range in Victoria Harbour?

- A. 0.5m;
- B. 1m;**
- C. 1.5m;
- D. 2m

Q.52 Which government department measures tide level throughout the territories?

- A. Agriculture, Fisheries and Conservation Department;
- B. Hong Kong Observatory;**
- C. Lands Department;
- D. Marine Department

Q.53 Which of the following instrument can measure the depth of seabed?

- A. Theodolite;
- B. Chain;
- C. Echo sounder;**
- D. GPS

Q.54 What of the following is the task of a hydrographic surveyor?

- A. To measure water depth;
- B. To measure water flow;
- C. To explore sub-strata resources;
- D. All of above**

Q.55 When does spring tide (maximum tidal range) occur?

- A. New moon;
- B. Half moon;
- C. Full moon;**
- D. Every first day of the month

Q.56 What flag will be raised on a vessel when performing a hydrographic survey in the harbour?

- A. Red cross on white;
- B. Blue star on white;
- C. Blue star on yellow;
- D. Black spot on yellow**

Q.57 Which of the following construction activity involves a hydrographic surveyor?

- A. Construction of Island Eastern Corridor;
- B. Reclamation of Tseung Kwan O;
- C. Site formation of Chek lap Kok Airport;
- D. All of above**

Q.58 When was aerial surveying by ballons and kites invented?

- A. 1600's;
- B. 1700's;
- C. 1800's;**
- D. 1900's

Q.59 Which historical event first bloomed the use of aerial surveys?

- A. Russian Revolution;
- B. World War I;
- C. World War II;
- D. Vietnam War**

Q.60 Which of the following is the application of remote sensing?

- A. Mapping;
- B. Earth resources monitoring;
- C. Weather forecast;
- D. All of the above**

Q.61 Which of the following CANNOT be detected by remote sensing devices?

A. Sound;

B. Light;

C. Infrared radiation;

D. Microwave

Q.62 Which of the following is the application of terrestrial photogrammetry in Hong Kong?

A. Monitoring of civil structures;

B. Preservation of Murray House;

C. Construction of the Buddha Statue on Lantau Island;

D. All of the above

Q.63 When was the first photogrammetric survey for mapping purpose carried out in Hong Kong?

A. 1945;

B. 1952;

C. 1963;

D. 1976

Q.64 Which of the following is NOT the application of aerial photos?

A. Generating digital terrain model;

B. Land use monitoring;

C. A record of time;

D. Measurement of water depth

Q.65 Which of the following is considered as a "general map"?

A. Land boundary plan;

B. Navigation chart;

C. Thematic map;

D. Topographic map

Q.66 What is usually included in a topographic map?

A. Relief;

B. Road/footpath;

C. Landmark;

D. All of above

Q.67 What is the largest scale of topographic maps produced by Survey and Mapping Office, Lands Department?

A. 1 : 1 000;

B. 1 : 5 000;

C. 1 : 20 000;

D. 1 : 50 000

Q.68 Which of the following people is NOT the user of a topographic map?

A. Land administrator;

B. Coxswain;

C. Hiker;

D. Urban planner

Q.69 What are the components in a four dimensions system?

A. X, Y, Z and Time;

B. East, South, West and North;

C. Dimension, Direction, Delineation and Degree;

D. Latitude, Longitude, Height and Depth

Q.70 Which of the following is the application of digital maps?

- A. Vehicle navigation, when used with GPS;
- B. Query of locations of facilities like buildings and restaurants;
- C. Planning of utility lines;
- D. All of the above**

Q.71 What is the approximate number of 1:1000 survey sheets (topographic maps) published by Lands Department that cover the whole territories?

- A. 50;
- B. 120;
- C. 250;**
- D. 400

Q.72 What is the number of 1:20000 survey sheets (topographic maps) published by Lands Department that cover the whole territories?

- A. 4;
- B. 12;
- C. 16;
- D. 17**

Q.73 Where was surveying originated?

- A. Greece;
- B. Egypt;**
- C. China;
- D. India

Q.74 When was HKIS founded?

- A. 1898;
- B. 1984;**
- C. 1995;
- D. 2002

Q.75 Up to December 2001, what is the approximate number of professional land surveyors in HKIS?

- A. 50;
- B. 100;
- C. 200;**
- D. 400

Q.76 Who is the Legislative Councillor in the Architectural, Surveying and Planning Functional Constituency?

- A. Mr. C. Y. Leung;
- B. Mr. S. Y. Lau;
- C. Mr. F. Y. Kan;
- D. Mr. P. C. Lau**

Q.77 What is the approximate length of Tsing Ma Bridge?

- A. 15m;
- B. 150m;
- C. 1500m;**
- D. 15000m

Q.78 How tall is the Tian Tan Buddha Statue?

- A. 10ft;
- B. 100ft;**
- C. 1000ft;
- D. 10000ft

Q.79 What is the total land area of HKSAR ? (choose the closest)

- A. 100 sq km;
- B. 1000 sq km;**
- C. 10 000 sq km;
- D. 100 000 sq km

Q.80 Where can we find white dolphins in Hong Kong waters?

- A. Sha Chau;**
- B. Tiomon Island;
- C. P P Island;
- D. Kau Sai Chau

Q.81 In the old days, what did a "Tau Chung" measure?

- A. Area;**
- B. Length;
- C. Volume;
- D. Pressure

Q.82 In the old days, what did a "chain" measure?

- A. Area;
- B. Length;**
- C. Volume;
- D. Pressure

Q.83 Which government office mainly provides land survey related services in Hong Kong?

- A. Survey and Mapping Office;**
- B. Land Administrative Office;
- C. Legal Advisory and Conveyancy Office;
- D. Land Registry

Q.84 Who is the HKIS President in 2002/03

- A. Mr. T. Chan;
- B. Mr. R. Chan;
- C. Mr. M. Chan;
- D. Mr. K. Chan**

Q.85 What is the major role of a land surveyor?

- A. Measure land and seabed;
- B. Define land boundary;
- C. Set out land parcels;
- D. All of above**

Q.86 How many divisions does HKIS consist of?

- A. 3;
- B. 4;
- C. 5;**
- D. 6

Q.87 To qualify as a corporate member of the HKIS, how many years of supervised training a surveyor should possess?

- A. Minimum 1.5 years;
- B. Minimum 2 years;**
- C. Minimum 2.5 years;
- D. Minimum 3 years

Q.88 Where is the office of the HKIS?

- A. Jardine House;**
- B. Pacific Place;
- C. Citiplaza;
- D. Prince's Building

Q.89 Who is the Land Survey Division Chairman of the HKIS in 2001/02?

- A. Mr. H. Chan;
- B. Mr. C. H. Wong;**
- C. Mr. T. C. Ng;
- D. Mr. T. N. Wong

Q.90 Which of the following activity is NOT involved in land surveying?

- A. Topographic surveying and digital mapping;
- B. Land information management;
- C. Photogrammetric surveying;
- D. Building maintenance surveying**

Q.91 How many rules of Standard of Conduct should be complied with by the HKIS members?

- A. 8;**
- B. 9;
- C. 10;
- D. 11

Q.92 In 1903, how many boundary stones were erected to mark out the boundaries of the "City of Victoria"?

- A. 4;
- B. 5;
- C. 6;**
- D. 7

Q.93 Today, how many boundary stones of the "City of Victoria" survive?

- A. 4;
- B. 5;
- C. 6;**
- D. 7

Q.94 In early 1900's, Chinese had different names for the "City of Victoria". What do they called?

- A. 5 Circuits;
- B. 4 Circuits;**
- C. 3 Circuits;
- D. 5 Circuits

Q.95 For what reason was the world's highest Mt. Everest named after Sir George Everest?

- A. He developed a town up Mt. Everest.;
- B. He discovered Mt. Everest.;
- C. He was the first to survey the height of Mt. Everest.;**
- D. He was the first to climb up to the top of Mt. Everest.

Q.96 When was the first land sale on Hong Kong Island after Cpt. Charles Elliot landed Hong Kong?

- A. Jun 1841;**
- B. Feb 1842;
- C. May 1842;
- D. Sep 1843

Q.97 Which batch of land lots were sold in the first land sale on Hong Kong Island?

- A. Inland Lots;
- B. Marine Lots;**
- C. Defence Lots;
- D. Rural Building Lots

Q.98 Which of the following is the only freehold of land in Hong Kong?

- A. The Governor's House;
- B. The Government Headquarters;
- C. St. John Cathedral;**
- D. Tamar Base

Q.99 Which of the following is the only local university offering a degree course in land surveying?

- A. HKU;
- B. HKUST;
- C. CityU;
- D. PolyU**

Q.100 Which of the following best describes the typical job of a land surveyor?

- A. Property valuation;
- B. Position fixing;**
- C. Building maintenance;
- D. Construction project management