Surveying and Mapping
Guidelines for Reclamation

15 hour course

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Final Exam

1. What are considered classifications for surveying and mapping activities performed by or for Reclamation?
   A. Planimetric
   B. Topographic
   C. Hydrographic
   D. All of the above

2. These types of surveys are to obtain basic data for designs and estimates. Third – order surveys are usually performed for these investigations.
   A. Preconstruction Surveys
   B. Advance Planning Surveys
   C. Post Construction Surveys
   D. Construction Surveys

3. What is the purpose of cadastral surveys?
   A. For the making of an official register of the quantity and ownership of real estate
   B. To control the National Geodetic Survey
   C. Extensive Aerial photographic coverage is acquired here
   D. To publish navigation charts

4. Any survey or resurvey of public lands shall be approved or performed by the ____________.
   A. NGS (National Geodetic Survey)
   B. BLM (Bureau of Land Management)
   C. OMB (Office of Management and Budget)
   D. BIA (Bureau of Indian Affairs)

5. All types of surveying which are performed for construction activities are called:
   A. Construction Surveys
   B. Control Survey
   C. Planning Survey
   D. None of the above
6. With respect to coordination with other Agencies, this Agency has issued Circular No. A-16 and exhibits describing the responsibilities of Federal agencies with respect to coordination of the Federal surveying and mapping activities financed in whole or in part by Federal funds.
   A. National and Oceanic and Atmospheric Administration
   B. Bureau of Land Management
   C. Office of Management and Budget
   D. National Geodetic Survey

7. What type of surveys are performed to determine what distortion, deflection, or movement takes place in the structure?
   A. Cadastral Surveys
   B. Surveys for Structural Behavior
   C. Withdrawn Lands Surveys
   D. Contract Surveys

8. Which of the following are Construction Surveys?
   A. Tunnel Surveys
   B. Surveys of Structural Behavior
   C. Cadastral Surveys
   D. Township and Section Surveys

9. Who is the custodian of the records of the original land surveys?
   A. Reclamation Foreman
   B. General Contractor
   C. Director of the BLM
   D. Regional Director

10. What are two types of Sedimentation Surveys?
    A. Cadastral Surveys and Townsite Surveys
    B. Survey Plats and Cadastral Surveys
    C. Base Sedimentation Surveys and Resurveys of a Reservoir
    D. Contract Surveying and Mapping

11. ___________________ is the process of preparing maps from photographs of the earth’s surface.
    A. Plats Viewing
    B. Reclamation
    C. Sedimentation Surveying
    D. Photogrammetric Mapping
12. What is a type of small UAS (Unmanned Aerial Systems) that is commercially available for aerial photographs?
   A. Fixed-Wing Version
   B. Single-Blade Helicopter
   C. Multi-Rotor
   D. All of the above

13. Techniques and standards for map preparation in relation to surveying and aerial photography are discussed in Series_______.
   A. 240
   B. 550
   C. 320
   D. 470

14. When was Circular A-16 originally issued?
   A. 1933
   B. 1943
   C. 1953
   D. 1963

15. When Circular A-16 was revised in 1967, the most significant change in this revision was the addition of a new section called what?
   A. Responsibility of Coordination
   B. Responsibility of Exhibits
   C. Responsibility of Development
   D. Responsibility of Requirements

16. What are the 5 steps to the NGDA Portfolio Management Process?
   A. Inventory; Select; Manage; Evaluate/Monitor; Identify/Execute
   B. Invoice; Send; Manage; Evaluate/Monitor; Identify/Execute
   C. Inventory; Select; Measures; Exclusions; Identify/Execute
   D. Invoice; Send; Measures; Exclusions; Identify/Execute
17. The **RACI matrix** is composed of the four key responsibility areas as follows:
   A. Role, Accountable, Contract, Inform
   B. Role, Approval, Contract, Inform
   C. Responsibility, Accountable, Consult, Inform
   D. Responsibility, Approval, Contract, Inform

18. The resolution requirement for orthoimagery in support of the National Map of the U.S. Geological Survey (USGS) is ______ meter(s).
   A. 4
   B. 3
   C. 2
   D. 1

19. In regards to Radiometric Resolution, imagery with greater than 8 bits per pixel is allowed providing that the following TIFF tags are included in the image header:
   A. SampleFormat
   B. MinSample Value
   C. MaxSample Value
   D. All of the above

20. What was released as a draft in 2010 and then formally published in 2012 and was quickly embraced as the foundation for numerous state, county, and foreign country lidar specifications?
   A. Lidar Base Specification Version 1.0
   B. National Geospatial Program
   C. American Recovery and Reinvestment Act
   D. None of the above

21. Which following guidelines is a condition to follow with collection of lidar data?
   A. Atmospheric conditions shall be cloudy and foggy between the aircraft and ground during all collection operations.
   B. Ground conditions shall be snow free. Very light, undrafted snow may be acceptable in special cases, with prior approval.
   C. Ground condition shall have extensive flooding and all type of other inundation
   D. Leaf covered vegetation is a must.
22. In the Summary of Small Unmanned Aircraft Rules, an Unmanned aircraft must weigh less than:
   A. 45 lbs.
   B. 55 lbs.
   C. 65 lbs.
   D. 75 lbs.

23. To qualify for a remote pilot certification, a person must be at least:
   A. 15 years old
   B. 16 years old
   C. 17 years old
   D. 18 years old

24. What does the Interagency Aviation Mishap Response Guide and checklist do?
   A. Stops the aviation mishap from happening
   B. Nothing
   C. Provide both immediate actions and general instructions to follow in the event of an aviation accident.
   D. None of the above

25. Retention of UAS data and information collected using UAS that may contain PII shall not be retained for more than____, unless retention of the information is determined to be necessary to an authorized mission of the retaining agency, is maintained in a system of records covered by the Privacy Act, or is required to be retained for a longer period by any other applicable law or regulation.
   A. 120 days
   B. 150 days
   C. 160 days
   D. 180 days