FT 211 Exam 1

1) The review for this exam was found in what section on the coursesite?

- a. Tests & Quizzes
- b. Reviews
- *c. Exams
- d. Materials
- e. None of the above

2) All of the following are topics to be covered in this course EXECPT?

- a. Aquatic habitat measurement
- b. Length, weight, and other indices
- c. Sampling commercial and recreational fisheries surveys
- *d. Remotely operated vehicles and fisheries research
- e. All of the above are topics covered in class

3) If you have a question about the course what is the best way to ask it?

- a. Email the instructor
- b. Call the instructor
- *c. Post it in the questions section of the course site
- d. wait until the next class meeting and ask then
- e. None of the above



Which one of the above texts is not used or recommended in this course?

- a. 1
- *b. 2
- c. 3

d. 4

5) Biota is one of the three primary components in fisheries. Which of the following best describes Biota?

- *a. The living organisms in an ecosystem
- b. The users and competitors of water
- c. The environment in which an organism lives
- d. Microscopic organisms living on fish
- e. None of the above

Type: MT

6) Correctly match the following words with their correct definitions

a. Fisheries management = The manipulation of the 3 interacting elements in a fishery to meet intended and desirable objectives

b. Fisheries research = The diligent and systematic inquiry to develop methods, facts or principles to better understand the 3 elements and their connectivity

7) Planning is an essential part of fisheries research, but not necessarily management

a. True

*b. False

8) Improper planning will result in all of the following EXECPT

a. Increase safety risks

b. Loss of time

*c. Increase in productivity

c. Loss of time sensitive data

d. Waste of resources

9) Goals are narrow, precise, tangible, and concrete

a. True

*b. False

Type: ORD

10) Organize the following steps of a fishery investigation from start to finish (note not all steps are included)

a. Problem Identification

- b. Prediction, Hypothesis, & Objectives
- c. Planning for sampling
- d. Data collection and processing
- e. Synthesis and inference
- f. Communication of results

11) Fishery problems are best identified by which of the following

a. Fisheries managers

*b. Users

c. Fisheries researchers

d. Graduate students

e. None of the above

Type: E

12) List three places to get existing fisheries information or literature (be specific, Google isn't enough)

13) Which of the following statements in NOT true regarding data and data statements

a. You can collect too much data

b. Each hypothesis needs its own data statement and examination

- *c. Statistical review is used after the data is collected
- d. Data statements are important to understand what kind of data to collect

e. All of the above statements are true

Type: E

14) In your own words briefly define sample. (Why do we sample?)

15) All of the following would include types of biological data being collected EXCEPT

*a. Length of a particular stream reach

b. number of fish in a particular trap

c. length of a fish in a reservoir

d. number of aquatic invertebrates in pond

e. None of the above

16) Humans are the ones that manage and studied fisheries, we do not need to collect information on people themselves

a. True

*b. False

17) Which of the following would you classify as the most important piece of sampling equipment

a. Firearm/bear protection

b. Database/data archive

c. Computer/digital sampling

*d. Crew/employees

18) Communicating the results of your study is important and scientific journals and conferences is the best place to get this information out to the general public

a. True

*b. False

19) Which of the below statements is INCORRECT

a. These data are uniform

*b. The data is uniform

c. Data are uniform

d. All of the above are incorrect

20) The collection, analysis, interpretation, presentation, and organization of data is

a. Data analysis

b. Calculus

c. Data visualization

*d. Statistics

e. none of the above

21) Who said "There are liars, damned liars and statisticians."

a. Huck Finn

b. Tom Sawyer

*c. Mark Twain

d. Earnest Hemmingway

Type: E

22) Give 3 examples of an electronic data collection device

- 23) Databases are all of the following EXCEPT
- a. Repositories of information
- b. Logically organized
- c. Facilitate retrieval of specific information
- d. Provide for customized output reports
- e. Relational
- *f. Databases are all of the above

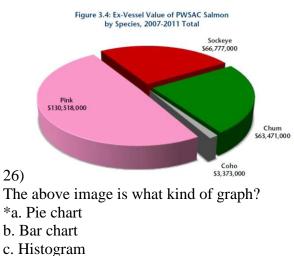
Type: E

24) List one common type of database software

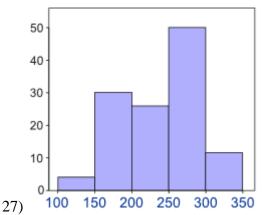
25) Sorting data and looking for outliers is a common form of quality controlling data

*a. True

b. False



- d. Scatter plot
- e. Line graph



The above image is what kind of graph?

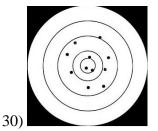
- a. Pie chart
- b. Bar chart
- *c. Histogram
- d. Scatter plot
- e. Line graph

28) What is the difference between a Histogram and a Bar chart?

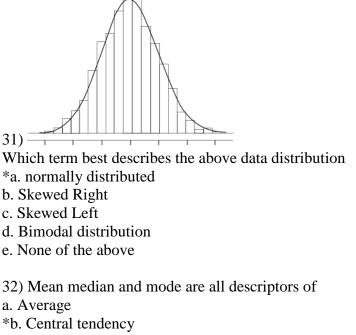
- a. A histogram is of historical data
- b. In a bar chart the bars represent the data values
- *c. A histogram depicts continuous data
- d. a bar chart depicts continuous data

29) All of the following are examples of qualitative data EXCEPT

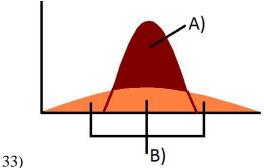
- a. Sex of fish
- *b. Number of offspring
- c. Species of fish
- d. Life stage
- e. All of the above are qualitative data



The above image is an example of a. good accuracy, good precision *b. good accuracy, bad precision c. bad accuracy, good precision d. bad accuracy, bad precision



- c. Dispersion
- d. Range
- e. None of the above



In the above figure which data set has a larger Variance?

a. A) *b. B)

34) Breaking a population up into groups and then sampling all of the individuals in a single group is an example of which type of sampling design?

- a. Random sample
- b. Stratified random sample
- *c. Cluster Sampling
- d. Systematic sampling
- e. None of the above

35) Hypothesis testing belongs to which type of statistics

- a. Descriptive statistics
- *b. Inferential statistics

c. Null statistics

d. Modeling

e. None of the above

36) Regression analysis looks for relationships between two variables

a. *True

b. False

37) Manipulating one variable and then looking for a response is an example of a Observational study

a. True

*b. False

38) Of the hazards in fisheries choose the one that is most hazardous to Biologists

*a. Airplane accident

b. Wildlife attack

c. Drowning

d. Electric Shock

e. Exposure

39) Accidents could have typically been avoided and are caused by a chain of errors that could have been broken

*a. True

b. False

40) Safety is the responsibility of

- a. Employee
- b. Supervisor
- c. Organization

*d. All of the above

41) What does the SAFE acronym stand for
a. Self, attitude, facts, equipment
*b. Skills, attitude, facts, equipment
c. Self, attitude, facts, environment
d. Skills, availability, facts, environment
e. None of the above

42) What is the law called that protects care givers from being sued if they have good intentions of helping someone

a. Good intentions law

*b. Good samaritan law

c. Good caregiver law

d. Noble first aid law

e. None of the above

43) Survival training often focuses on improvisation and the use of modified tools to create shelter, fire, and signaling devices

*a. True

b. False

44) Float planning should be done

- a. When traveling offshore in a boat
- b. When going to be gone for multiple days
- c. When direct communication will be compromised

*d. Always

e. None of the above



The above picture is an example of what kind of a safety equipment that should be carried aboard most boats

a. Handheld signaling device

- *b. Emergency position indicating radio beacon
- c. Handheld VHF radio
- d. Aerial flare
- e. None of the above

46) The purpose of an emersion suit is to

a. Provide additional floatation to the survivor

*b. provide additional thermal protection to the survivor

c. provide a highly visible wearable suit to the survivor

d. provide an abrasion and fire resistant suit to the survivor

e. None of the above

47) Weather is extremely important in aviation and you should let the pilot determine when it is unsafe to fly

a. True

*b. False

48) Heavy items such as outboard motors and fuel cans should always be stored in the tail of an airplane

a. True

*b. False

48) Having and knowing where all of the following safety equipment is in the aircraft EXCEPT ________ is crucial to remaining safe

a. Fire Extinguisher

b. ELT

- c. Survival Equipment
- d. Electrical Shutoff Switch
- *e. All of the above are crucial

50) Radio Telemetry involves using radio waves to map the ground

a. True

*b. False

51) When traveling in bear country the most important thing is

- a. Avoidance
- b. Keeping attractants away
- c. traveling in groups of 3 or more
- d. Understand Bear Behavior
- e. carrying a firearm
- *f. All of the above are important

52) Firearms are 50% more effective than pepper spray

a. True

*b. False

53) When using firearms all of the following are good rules EXCEPT

a. Keep the barrel pointed in a safe direction

b. Keep the firearm unloaded when not in use

*c. Always use the safety when pointing at people

d. Being familiar with the firearm

e. All of the above are good rules

54) Habitat measurements include Physical, Chemical, Biological, and Economical

a. True

*b. False

55) What do the parallel lines with varying spacing on a topographic map represent

a. They are for shading and give the map color

*b. The represent areas of the same elevation

c. They represent counties and townships

d. They represent latitude and longitude

e. None of the above

56) GIS Stands for

a. Geologic information system

*b. Geographic information system

- c. Graphics information system
- d. None of the above

57) The most accurate way to identify a specific location on the ground is with

*a. GPS

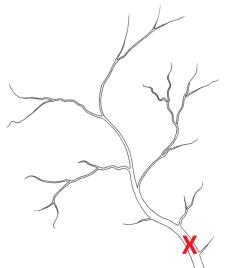
b. GIS

c. Township and range coordinates

d. Universal transverse mercator (UTM) coordinates

e. none of the above

Type: E 58) In your own words briefly describe what a watershed is



59)

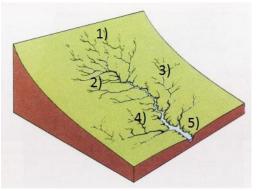
Based on the stream order ranking we went over in class what is the order of the stream X a. 1

b. 2

c. 3

*d. 4

e. 5



60)

Identify the location on the above figure where there would be a steep gradient river *a. 1

- b. 2
- c. 3
- d. 4
- e. 5

61) What is the purpose of the above piece of sampling equipment

*a. Freezing the sediment so it can be sampled

- b. Injecting dye into the water column for velocity tests
- c. Aerating the water for increased fish survival
- d. Marking of different stream reaches
- e. None of the above

62) In order to measure stream discharge you need to know

- a. flow and velocity
- b. flow and depth
- *c. velocity and depth
- d. gradient and flow
- e. None of the above

63) The Wentworth scale is a classification of

- *a. substrate size
- b. stream habitat categories
- c. erosion parameters
- d. nutrient loading
- e. None of the above



Which of the above tools is used to measure water transparency *a. 1

- b. 2
- c. 3
- d. 4
- e. 5

65) A lake classified as being high in Phosphorus or nutrients is called

- a. Oligotrophic
- *b. Eutrophic
- c. Mesotrophic
- d. Phosophorotrophic
- e. None of the above