## Biostat Final Exam -2012

Note:
some of the question are answered, keep in mind that those answers are not absolutely correct, so it's better to verify and make sure about them..

## Dr.M. Jaghbeer:

1. black lung disease is caused by :
a- coal
2. theories of disease causation are :
a- humoral for fracastoro
b- germ theory
c- contagion for hippocrates
d- modern ... by pastur
e- all of the above
3. diseases according to the humoral theory arises from :
a- heredity
b- regimen
c- climate
d- natural causes
e- all of the above
4. sick building syndrome due to :
a- humidity
b- poor ventilation
c- radon
d- chemicals from inside the building
e-poor temperature control
5. which of the following is true:
a- three quarters of the global diseases burden are due to modifiable environmental factors
b- one third of the burden among children due to modifiable environmental burden c- children bear the highest death toll with more than 4 million deaths in the developed countries
d- total number of lives lost each year as a result of environmental factors was15 times higher in developed than developing countries.
e- all of the above

## Dr.Farouq:

6. three tables to study the effect of family history on the occurance of diabetes....
table (1) cross sectional study
table (2) case control study
table (3) cohort study
$\mathrm{q}(1)$ find the odds ratio:
>>> find from table (2)... 1.67
$\mathrm{q}(2)$ find incidence rate:
>>> find from table (3).... 3 \%
7. odds ratio means which of the following:
>> degree of association between two variables
8. cross sectional study :
a-can be used even in rare diseases
b- a base for other studies
c- simple \& quick ( not sure about this one )
d-a+b+c
e-b+c only
9. prevalence of a disease :
a- can be calculated from a cross sectional study
b- a priority in the scaling of health problems
c- something .... cases of the disease that exist currently
d- \# of cases of a disease in in a population a period of time
e- it decrease by the use of a new drug, even if the drug did not result in cure
10. a question about the observational studies
all are true except :
a- depend only on whats observed without the interpretation of the investigator
b- easily done when it's immposible / impractical /unethical to do experimental studies
c- it can be used to predict diseases in the present time, and from outcome back to occurrence, and .... (sth describe cohort study)
d- describe the disease as it is without interference with the factors of its cause
11. all are true about control groups except :
a- free of the disease
b- share similar charactaristics with the case
c- it's size must be equal to that of the case group
12. the concept that describes " the risk factor should come before the disease : temporality
13. a question about the incedince rate : " all are true except " :
a) decrease if there was a drug invented to cure it.
b)it calculate the current cases of the disease rather than giving the no of total cases (not sure)
14. from the data given below:
population $=99000$
hepatitis A cases $=100$
ages between ( ) cases $=20$
ages between ( ) cases $=10$
ages between ( ) cases $=5$
each age group is $1 / 3$ of the population
**calculate the IR in 1990 knowing that there was no previous cases for the disease:
a- . 0010
b-. 35
c) 0.0035
d- cant be calculated
15. t-test is used to:
a- compare the mean between two groups
b- compare the standered deviation between two groups
c- compare the .... between two groups
d- use percentages in its calculation
e- a and d

## Dr.Samar questions:

16. the sixth leading cause of death in the USA :

A- diabetis
B- al zehimer
17. the percentage of NCDs in jordan :
a- more than $50 \%$
b- more than 60 \%
c- more than $40 \%$
18. all of the following are related to primodal prevention except:
a- screening
b- immunization
c- nutrition
19. the most common type of child abuse is :
a) physical
b)emotional
c) sexual
20. all are related to physical abuse except :
a- hunger
b- suffocation
c- burns
d- bruises
21. all are of the moderate risk factors of diabetis except :
a- high blood sugar > 140
b- high cholesterol > 200 mg
c- high blood pressure $>140 / 90$
d- physical inactivity
e- smoking
22. all of the following about communicable diseases true except :
>>> majority of which curable

## Dr.M. Nassar questions

23. one of the figures that used for normal distribution : a)histogram
b) polygon
c) line chart
d)all of the above
24. the question is .. the best to use to discribe the occurance of a disease in a hospital a-mean
b-frequency
c-standard deviation
d-range
e- none of the above
25. 95\% confidance interval means :
a- you are 5\% confident that ....are not included
b- you are $95 \%$ confident that ... are included
c-
d- all of the above
26. to take all the possible samples and calculate the mean for each one then draw a line chart, this is called :
a)sampling distribution
b)sample distribution
c)population distribution
27. the formula $\mathrm{M}+/$ _ 1.96 SE :
a- $95 \%$ confidence interval
b- $99 \%$....
28. the percentage of the sample that is in located in one standard deviation is : a) $99 \%$ b) $95 \%$
c) $68 \%$
d) $34 \%$
29. used to calculate the correlation cooficient :
a- chi-square ...
b- t-test for correlations
c- t- test ....
30. a study was made about the effect of age on incidence of a disease, knowing that the age was entered as continuous level of measurement, and the incidence was nominal . the data was severely negatively skewed. what type of tests is the best to use
: a)Chi-square
b)Student T-test
c) MW
d) KW
31. in a study, Hospital (A) wanted to know if the patients' staying time differs from that in Hospital (B), given the mean and SD for each..
a) the null hypothesis states that patients' staying time in hospital (A) differs from that in Hospital (B)
b) b- there is no difference in hospital stay time between hospital (a) and hospital (b)
c) hospital stay duration in hospital (a) is longer than stay in hospital (b)
d)....
e)we cannot determine from the given data
in the following questions answer according to the tables 1,2 , and 3 that was obtained after doing an ANOVA test to compare between 3 drugs, and the 4th was control... all with 10 cases
table (1).... shows levene statistic, where sig value is 0.01
table (2).... shows ANOVA , where $f=9.34$, sig $=.000$
table (3).... shows posthoc test, where drug 2 and 3 are similar and significant, and both significant over drug 1 and control
**from table (1), you can tell that:
a- their is a significant variance that cause confinding results
** from table (1), what the researcher has to keep in mind:
a- stop ANOVA and go to non-parametric
b- repeat ANOVA to obtain consistent results
c- go through ANOVA and be confident of the results
d- go through ANOVA be take results with caustion
e-....
** from table (2) which is true:
a- the overall analysis is significant
** from table (2) what does F value mean:
** from table (3) which is true:
a- drug 3 is the most significant over other drugs
b- none of the three drugs is significant

