



MATHS

BOOKS - UNITED BOOK HOUSE

Model Test Set - 6



1. Abscissa of the point of intersection of the less

than and greater than ogives corresponds to

A. arithmetic mean

B. median

C. geometric mean

D. none of these

Answer:

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A. First

B. Second

C. Third

D. none of these

Answer:

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3. Mode depends on change of

A. Origin only

B. scale only

C. both origin and scale

D. neither origin nor scale.





5. For a constant c, the value of riangle (c) is

A. 2

B. 1

C. 0

D. none of these



6. If the values of the argument are not equispaced, then which of the following interpolation formula would be applicable?

A. Newton's forward

B. Newton's backward

C. Largrange's interpolation

D. none of these



7. Do thenre exist integers x such that 12x =5 (mod

8)?

A. yes

B. no

C.

D.



8. If a=b (mod n), then state whether $a^2 \equiv b^2$ (mod

n)

A. yes

B. no

C.

D.



9. The expression for the event 'neither A' nor B occurs'is

A. $A\cap B$

 $\texttt{B.}\left(A\cup B\right) ^{c}$

 $\mathsf{C}.\,A\cap B^c$

D. none of these

Answer:

10. For two mutually exclusive events A and B, P(A)

+ P(B) equals to 1. The above statement is

A. 1

Β.

C.

D.

Answer:

11. If the relation between two variable x and y is 5y + 7x = 11 and the range of x is 5, then the range of y is _____.

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12. If for a distribution $Q_1=25$ and $Q_3=45$, what

percent of observations lie between 25 and 45?



13. If $g_2 < 0$, the distribution is called _____





14. In a symmetric distribution, the mean and the

mode are

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15. If A implies B, then what is P(AIB)?



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18.
$$P(AIB)=0.25$$
, then $P\Big(A^CIB\Big)=$?

19.
$$P(A) = \frac{1}{3}$$
 and $P(B) = \frac{1}{4}$, Find $[P(A \cup B)]_{\max}$.

20. State the tests of consistency for price index numbers.

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21. Define Patent.



22. What do you mean by ETC?



23. Find the standard deviation of first n even

positive integers.

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24. Find the probability of getting a difference of score as '3' when two perfect dice ae thrown at a



26. If
$$P(A^C \cup B^c) = \frac{5}{6}$$
, $P(A) = \frac{1}{2}, P(B^C) = \frac{2}{3}$ are the events A and B

independent?

27. Find the formula of combined geomtric mean.





such that the sum total of any two is greater that

the third.



31. Find $riangle^3 f(2)$ from the following values of f(x): f(2) = 9, f(4) = 63, f(6) = 211, f(8) = 506



33. In respect to a finite sample space define, with

example Equally likely events.



34. Write the classical definition of probability and

state its limitations.



35. If the letters of the word 'RAMESH' are arranged

at random, what is the probability that there are

exactly two letters between A and E..



36. Define price index number and state its uses.



37. Show that criide death rate can be expressed as weighted arithmetic mean of age spefiic death rates.

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38. For a set of positive quantities, Prove that

 $A. M. \geq GM \geq H. M.$



probability.



40. Discuss different problems in the construction

of price index number.

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41. Decribe the structure of a life table.