





A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTION OF WORKSHEET-8

SUBJECT - STATISTICS

Term: 1st

Topic - INTERPOLATION Class: XI

Full Marks: 15 Date:24.06.2020

Q1. Select the correct alternative of the following questions.

(i) When the arguments are monotonically increasing with same increment the method used in interpolation formula is

(a)Newton's forward

(b) Newton's backward

(c) either of two

(d) none of these

(ii) When the arguments are monotonically decreasing with same increment the method used in interpolation formula is

(a)Newton's forward

(b) Newton's backward

(c) either of two

(d) none of these

(iii) When the arguments are monotonic with same increment the method used in

interpolation formula is

(a) Newton's forward

(b) Newton's backward

(c) either of two

(d) none of these

(iv) When the arguments are monotonically increasing with different increment the

method used in interpolation formula is

(a) Newton's forward

(b) Newton's backward

(c) either of two

(d) none of these

(v) When the arguments are monotonically decreasing with different increment the

method used in interpolation formula is

(a) Newton's forward

(b) Newton's backward

(c) either of two

(d) none of these

(vi) When the arguments are monotonically non increasing with same increment the

method used in interpolation formula is

(a)Newton's forward

(b) Newton's backward

(c) either of two

(d) none of these

(vii) When the arguments are monotonically non decreasing with same increment the

method used in interpolation formula is

(a) Newton's forward

(b) Newton's backward

(c) either of two

(d) none of these

(viii)	When the arguments are monotonically non increasing with different increment the method used in interpolation formula is					
	(a)Newton's forward		(b	(b) Newton's backward		
	(c) Lagrange's		(d	(d) none of these		
(ix)	When the arguments are monotonically non decreasing with different increment the method used in interpolation formula is					
	(a)Newton's forward		(b	(b) Newton's backward		
	(c) Lagrange's		(d	(d) none of these		
(x)	If the fourth order difference is zero, then $\Delta f(x)$ are					
	(a) increasing (b) decreasing (c) may be both(d) none of these					
(xi)	If all the entr (a) -1	ies have value (b) 0	-4, then the (c) 1	polynomial is of (d) none of	•	
(xii)	If all the en polynomial is (a) 0		(c) 4	r differences as (d) none of	same value, then these	the
(xiii)	When the entries are monotonically increasing with different increment the method used in interpolation formula is					
	(a)Newton's forward		(b	(b) Newton's backward		
	(c) either of two		(d	(d) none of these		
(xiv)	When the entries are monotonically decreasing with different increment the method used in interpolation formula is					
	(a)Newton's forward			(b) Newton's backward		
	(c) either of two			(d) none of these		
(xv)	$\Delta =$					
	(a) E — 1	(b) E + 1	(c)) E (d) r Prepared by Sanjay Bhatt	one of these acharya	