

## ST. WILFRED'S P.G. COLLEGE

(Affiliated to the University of Rajasthan)

## Pre University Checked Sample Copies

Kafila IQAC HEAD St. WILLERED'S D.



Principal (Dr. FAREEDA HASANI)

## ST. WILFRED'S PG COLLEGE

SESSION - 201 - 201 - 3....

Name/Roll No Saurahh Page Class BSC - II Section Subject NA (Maths) Paper Per - Currensity

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111	2	3	4	5	6 0	° 7.	-8 -	. 9	10	Total	
4	4	4+4	2	04	04	.3	_		-1	29	

Marks Obtained 29 Max Marks 40 Examiners Signature

[Starts writing from this page]

$$a \cdot \Delta^n \sin(ax+b) = 7$$

$$\Delta \sin(\alpha x + b) = \sin(\alpha(x+b) + b) - \sin(\alpha x + b)$$

$$= \sin(\alpha x + ab + b) - \sin(\alpha x + b)$$

and we know that  

$$\sin c - \sin D = \frac{1}{2}\cos\left(\frac{c+D}{2}\right).\sin\left(\frac{c-D}{2}\right)$$

so, 
$$\Delta \sin(\alpha x + 1) = 2 \cos(2\alpha x + \alpha h + 2b) \sin(\alpha h)$$

$$= 2 \cos(\alpha x + \alpha h + b) \sin(\alpha h)$$

= 
$$2 \sin\left(\frac{\alpha h}{2}\right) \cos\left(\alpha x + \frac{\alpha h}{2} + b\right)$$
  
=  $2 \sin\left(\frac{\alpha h}{2}\right) \sin\left(\alpha x + \frac{\alpha h}{2} + b + \frac{\pi}{2}\right)$ 

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Head Of College

 $2nD \Delta^{2} \sin \left(\alpha x + b\right) = 2 \sin \left(\frac{\alpha h}{2}\right) \Delta \sin \left(\alpha x + \frac{\alpha h}{2} + b + \frac{\pi}{2}\right)$   $= 2 \sin \left(\frac{\alpha h}{2}\right) \left(\sin \left(\alpha (x + h)\right) + \frac{\alpha h}{2} + b + \frac{\pi}{2}\right) - \sin \left(\alpha x + \frac{\alpha h}{2} + b + \frac{\pi}{2}\right)$ 

=  $2\sin\left(\frac{ah}{2}\right)\left(\sin\left(\alpha x + ah + \frac{ah}{2} + b + \frac{\pi}{2}\right) - \sin\left(\alpha x + \frac{ah}{2} + b + \frac{\pi}{2}\right)\right)$ 

 $= 2\sin\left(\frac{ah}{2}\right) \cdot 2\cos\left(\frac{2an+2b+2\pi}{2} + 2ah\right)\sin\left(\frac{ah}{2}\right)$ 

 $= 2^{2} \left( \frac{\sin(\alpha h)}{2} \right)^{2} \cos(\alpha x + b + \pi + \alpha h)$ 

 $= 2^{2} \sin^{2}\left(\frac{\alpha h}{2}\right) \sin\left(\alpha x + b + \frac{\pi}{2} + \frac{\pi}{2} + \alpha h\right)$ 

= 22 sin2 (ah) sin (ax + 26 + 27 + ah)

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Similarly too  $Sin(an+b) = 2^{n} sin^{n} \left(\frac{ah}{2}\right) sin\left(\frac{ah}{2}\right) + \frac{ah}{2} + \frac{ah}{2} + \frac{ah}{2}$ 

 $=\frac{1}{2}\left(\Delta+(\varepsilon-1)\varepsilon^{-1}\right) \qquad \qquad \vdots \qquad \left(\Delta-\varepsilon-1\right)$ - 1 (A + 1-E) 50, US = 1 (D+7) HP b) 420 = 41225 , 425 = 48316, 430 = 47236, 435 = 45126, 440 = 4430 we know that strikling formula is: 
yu = yo + c, Δf(o) + c2 Δ² f(•) + U+c3 Δ³ f(-1) + U+c4 Δ4 f(-2) + U+2 C5 Δ5 f(-1) by adding 1 and 1 (3+1) \$ (1+6)

2 yu = 2 yo + UC, (D+(0) + D+(-1)) + D+(-1) (UC2+U+1C2) + U+1 C3 (Δ3 f (-1) + Δ3 f (-2)) + Δ4 f (-2) (U+1 C4 + U+2 C4) - 6 eq 3 divide by 2 are get,  $y_{v} = y_{o} + {}^{v}C_{i}\left(\frac{\Delta f(o) + \Delta f(-1)}{2}\right) + {}^{v}f(-1)\left(\frac{U^{2}}{2}\right) + {}^{v+1}C_{i}\left(\frac{\Delta^{2}f(-1) + \Delta^{2}f(-2)}{2}\right)$ + 1 + (-2) (U2 (U2-1)) + DY is istricting formula. 20 43225 20 780 2/5 200 4 8316 -171 34 - 29 1080 35 -21 47236 - 230 yo-k -1310 -80 8 . 1 35 45326 -310 -1620 40 44306

32 75

## ST. WILFRED'S PG COLLEGE

SESSION - 201.22.. - 201 2.3..

Do Learning in chrocess of acquiring knowledge dhrough resperiences of clines 6 - 1 Encoding, storage and dretrival 10 - Personaldy refers to ending 1 Characteristics and beliauroun that compuse a person's livique adjustment do life in cluding mojon hobels, litrost and drues 9 - Startford Binet Intelligence scale universal - Nonverbal Intelligence 11 It is values dumas as mechacol Description of supply speofly actually do a what Quests toke flow duing their lines Clarrical conditioning theory istates

that behow our are dearned Connecting a neutral estimuli · Order by Paulor

The streety of

Proffer unconciously Cleaning that 3) is lock of motivations chao blom 6 Lack of Mot vation Lack of knowledge 111 Last of vesource Ans-18 - Porychology as field of elscherimental estudy began in 1859 in left 31g Grermany:

1) - Structuralism: Developed by his horn count i) - It focuses on studying the estructure or basic elements of mind

ii - Function alism - By hill am James,
it believed in studying
functions and behaviored

of mental processess and mot
surply structure of mind foundet by Max west he mies fant koplea on wolf-gang kohler, They believed in Holistic Approach. (N) Posychoanalyses - By Sigmund Friend the believed that behaviour in Control and guised by Lincontious chrocesses. Ans- The orien of anotion.

James Lange theory
Just by hilliam James

and Carl longe. It duggest that chaysical Changes in body chappens fuit & then cleads to experience of enotion The opponent perocess theory that exacts that the more person experience fear , the less fear live affect theory assumes that faired to be