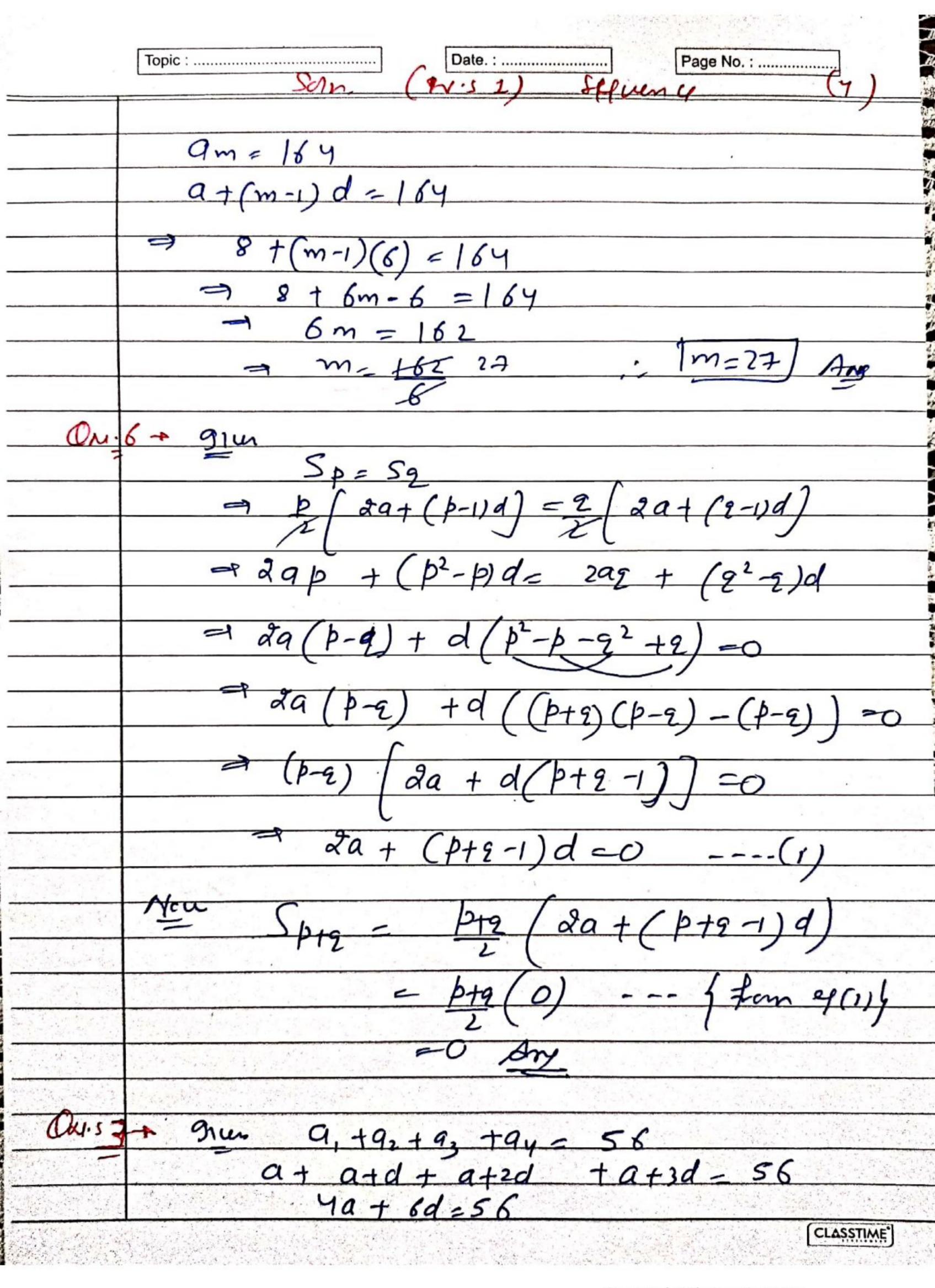
Topic :
SOLUTIONS
WORKSHBET NO: 1
SEQUENCE 2 SERIES
On 1 + 91um Cn - 7n + bn2
pu(n=)
$31 = 2 + \beta = a,$
pun = 2
$S_2 = 22 + 4p = 9, +92$
=> 22 +4 p = 2+ p + 92
$\Rightarrow q_2 = 2 + 3p$
$\frac{1}{2}$ $\frac{1}$
= d = (2+3b) - (2+b)
d=2p Ares
ICH - CP)
ONIZ - I'SI- AP
Ist kym 9
diffue d'
Sum Sn Sn
19th fum a.
12
To first a12 = a+11d
a'D $a'+11d'$
91 un 5n = 3n+8
5'n 7n+15
= n/ [2a+ (n-1)d] = 3n+8
2 (do' + (n-1)d')
PW- n=23 (bons sides)

CLASSTIME"

	Topic:
	$\frac{3}{30+220} = \frac{69+8}{161+15}$
=	$7 \ a + 11d = 34 7$ $0' + 11d' = 176 16$
. ,	: ly41-d Raho: 7:16 Am
Ou 3-	To find
	$\frac{q_m-2m-1}{q_n}=\frac{2m-1}{2n-1}$
0	$31 \text{cm} = m^2$
	5n n2
	$\frac{2n\left(2a+(m-1)d\right)}{2\left(2a+(m-1)d\right)} = \frac{m2}{n2}$
	$\frac{2a + (m-1)d}{2a + (m-1)d} = m$
	$\alpha \alpha + (m-1)\alpha$
	2an + (mn-n)d= 2am + (mn-m)d
-	+ 2a(n-m) + d(mn-n-mn+m) =0
	$\frac{1}{4} \frac{2a(n-m)}{4a(n-m)} + \frac{d(n-m)-n(n+m)}{-d(n-m)} = 0$
	$= (n-m) \left(2a-d\right)=0$
	$\frac{1}{2} \frac{2a - d = 0}{d = 2a}$
Ma	u 9m a+ (m-1)d
	an = a + (n-1)d [CLASSTIME]

	Topic:
	Soln. Squence (W.S. 1)
	= a + (m-1)(2a)
	a + (m-1)(2a)
	= 9/1+(m-1)2
	a(1+ (n-1)27
	am = 2m-1 Proved
	an 2n-1
QNI_	ly fly number to be insected an
	by the number to be inserted are
	A1, A2, A4, A5, A6
	$\frac{d_{2} b_{-q}}{n+1} = \frac{24-3}{6+1} = \frac{21}{7} = 3$
	n+1 6+1 7
	A1=a+d= 3+3=6
	$A_{1} = \alpha + 2d = 3 + \delta = 9$
	Az= a+3d= 3+9=12
ym Geell	Ay= 9+4d= 3+12=15
	Ar= a+5d 3+15=18
	A6= a+6d= 3+18=21
	:- Nos au 6,9, 12, 15, 18,21 Ans
Ou. 5-	9nus Sn 3n2+5n
	= and am = 164
	1 = 3 = 3 = 9 = 9 = 9 = 9 = 9 = 9 = 9 = 9
	n=2 $52-12+10=22=91+92$
	=> 22 = 8 +q2
	$\Rightarrow q_{2} = 14$
	$d = q_1 - q_2 = 6$
Grand Control of the	



Topic:
som. square (ws.)
gue Ist term a= 11
:- 44 + 6d= 56
- 6d= 12
=(d=2)
Trus Sun y lass- farm terme 112
- 6
-> 9n-3 + 9n-2 + 9n-1 + 9n-1 112
$\Rightarrow a + (n-4)d + a + (n-3)d + a + (n-2)d + a + (n-1)d = 1/2$
7 4a + d (4n-10) = 112
pw. a = 11 & d = 2
=> 44 + & (4n-1g) = 112
- 44+8n-20= 112
$\Rightarrow 8n = 112 - 24$
- 8n_ 88
$\Rightarrow n = 1$ Any
Ou. 8 + tory Cost = Rs 22000
advonue 4000
injaid framaint, 22000 = 4000 = 10 18000
annual Philallment = R 1000 = 4000 = Rs 18000
Number of Phitallement = 18
Tir te Pritallement = (000 + 10 (18000) = 2800
2 Privailes (000 + 10 (17000) = 2700
3 ^m Inhallen 1000 + 10 (16000) = 2600
(CLASSTIME)

Topic:
Som sequence (w.s.1)
: Suence of Installements
: fuence of Installements 2800, 2700, 2600, 18 term AP a= 2800, d=-100
AP = a = 2800 $d = -100$
$\frac{518 = \frac{18}{2} \left(\frac{5600}{5600} + (17)(-100) \right)}{2}$
=9/5600-1700)
- 9 (31900)
<u> </u>
had Amoun's
ford Amount advance of amount paid in
= 4000 + 35100
- RS 39100 AM
O4.9+ 92m ap=a= A+(b-1)d
uhu A ic
$9_1 = b = A + (9-1)d$ $9_1 = C = A + (A-1)d$ $9_1 = C = A + (A-1)d$
91-C = A+(A-1)d
L'My (2-1)a + (1-b)b + (b-2)c=
= (2-9) [A+(p-1)d] + (1-p)[A+(p-1)d] + (p-E)[A+(q-1)d]
7A (8-1 +18-18 +18-91) + d (Pg, -9-86+81+81
-21-b9AD/+ DX-D-51-6)
7 7 7
= A(0) + d(0)
- O = RN ANG
[CLASSTIME]

Topic:
On for les the three feery in AP are and
given sum = 24
=> a-d+ a+d- 24
=3a=24
$\Rightarrow a=8$
flectuct - 440
$\Rightarrow (a-d)(a)(a+d)=440$
= (8-d)(8)(8+d) = 440
$\frac{3}{64-d^2} = \frac{440}{8}$
$\Rightarrow 64-d^2=55$
$= Q \qquad = Q$
$\frac{1}{a} = \frac{1}{4} \frac{1}{3}$
for a=8 & d=3, the three term are
5.8.11
for a=8 & d=-3, the three ferman
11, 8, 5 Any
On 11 + grun Si Sin - 2 (2a + (n-1)d)
$S_1 - S_2 - 2n \left(2n + (2n-1)d \right)$
$\frac{S_2 - S_{2n} = \frac{2n}{2} \left(\frac{2a + (2n-1)d}{2} \right)}{2}$
$\frac{53-53n}{2} = \frac{3n}{2} \left(\frac{3n}{3n-1} \right) d$

	Topic :
	Som defruence (w.s.2)
-	$R_{\rm M} = 3(S_2 - S_1)$
	$= \frac{3}{2} \left(\frac{2n}{2a} + (2n-1)d \right) - \frac{n}{2} \left(\frac{2a}{2a} + (n-1)d \right) \right)$
	= 3n (4n-2)d - 2a-(n-1)d)
	$-3n \left(2a + d \left(4n - 2 - n + 1 \right) \right)$
	$=\frac{3n}{2}\left(2q+\left(3n-1\right)d\right)$
	33
	= 1 mg
	Draw
	prod
	(CLASSTIME)