


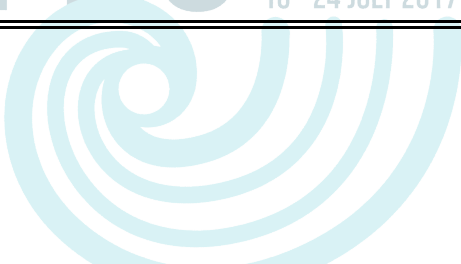
Student Code						
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A. Expansion of Universe

Question	Answer	Marks
A.1 (1.3 pt.)	$A_1 =$	
A.2 (0.9 pt.)	$A_2 =$	
A.3 (1.2 pt.)	(i) $w_r =$ (ii) $w_m =$ (iii) $w_\Lambda =$	



A. Expansion of Universe

Question	Answer	Marks
A.4 (1.2 pt.)	(i) $a(t) =$ (ii) $a(t) =$ (iii) $a(t) =$	
A.5 (0.1 pt.)		
A.6 (0.3 pt.)		

B. Motivation to Introduce Inflation Phase and Its General Conditions

Question	Answer	Marks
B.1 (0.5 pt.)	$(\Omega - 1) =$	
B.2 (0.3 pt.)	$(\Omega - 1) =$	

B.3		
(0.9 pt.)		
B.4		
(0.2 pt.)		

C. Inflation Generated by Homogenously Distributed Particles

Question	Answer	Marks
C.1 (1.7 pt.)	$\epsilon \approx$ $\eta_V \approx$ $\frac{dN}{d\phi} \approx$	

D. Particles Inflation with a Simple Potential

Question	Answer	Marks
D.1 (0.5 pt.)	$\phi_{end} \approx$	
D.2	$r =$	

Theory

English (Official)

AT3

(0.9 pt.)

$n_s =$

