

14. Find the coefficient  $x^2$  in the binomial expansion of  $\left(x + \frac{2}{x^2}\right)^5$
- A. 10  
B. 40  
C. 32  
D. 80
15. Given that  $P = \{x : x \text{ is a multiple of } 5\}$ ,  
 $Q = \{x : x \text{ is a multiple of } 3\}$  and  
 $R = \{x : x \text{ is an odd number}\}$  are subsets of  
 $\mu = \{x : 20 \leq x \leq 35\}$ , find  $(P \cup Q) \cap R$ .
- A.  $\{20, 21, 25, 30, 33\}$   
B.  $\{21, 25, 27, 33, 35\}$   
C.  $\{20, 21, 25, 27, 33, 35\}$   
D.  $\{21, 25, 27, 30, 33, 35\}$
16. A particle moving with a velocity of  $5 \text{ ms}^{-1}$  accelerates at  $2 \text{ ms}^{-2}$ . Find the distance it covers in 4 seconds
- A. 16 m  
B. 26 m  
C. 36 m  
D. 46 m
17. If  $U_n = kn^2 + pn$ ,  $U_1 = -1$ ,  $U_5 = 15$ , find the values of  $k$  and  $p$ .
- A.  $k = -1, p = 2$   
B.  $k = -1, p = -2$   
C.  $k = 1, p = -2$   
D.  $k = 1, p = 2$
18. In how many ways can six persons be paired?
- A. 5  
B. 10  
C. 15  
D. 25
19. Solve:  $3^{2x-2} - 28(3^{x-2}) + 3 = 0$ .
- A.  $x = -2$ , or  $x = 1$   
B.  $x = 0$ , or  $x = -3$   
C.  $x = 2$ , or  $x = 1$   
D.  $x = 0$ , or  $x = 3$
20. Given that  $P = (-4, -5)$  and  $Q = (2, 3)$ , express  $\overline{PQ}$  in the form  $(k, \theta)$ , where  $k$  is the magnitude and  $\theta$  the bearing.
- A. (10 units,  $063^\circ$ )  
B. (9 units,  $049^\circ$ )  
C. (10 units,  $037^\circ$ )  
D. (9 units,  $027^\circ$ )
21. If  $\overline{PQ} = 2i + 5j$  and  $\overline{RQ} = -i - 7j$ , find  $\overline{PR}$
- A.  $-3i + 12j$   
B.  $-3i - 12j$   
C.  $-i + 12j$   
D.  $i - 12j$

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**M Carnoy**



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