

اسئلة امتحان

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اسئلة امتحان

1. اسئلة امتحان
2. اسئلة امتحان

1. University Officers

- () اسئلة امتحان
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2. University Graduates

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. t m c m o s x n t m x o y m s
 . c m c f n s x m d s n m
 . c m n c s n s m m x
 . t e (s o s s o m n o a o y n
 e m m m m c o m)
 () m n x n c o s t c m s n
 t m c s o m x n o s n s c n n
 m s d o n s m s o s t c m s
 o f t c s f m f m c s n m
 m o m f o m n t s x n -
 3. s o s x
 (c) m x s t c m s c m e c s x o n n t m c
 4ft s m 2 x o s n c y m
 n s s o c s m 10 n f c x n t
 n f m s o s o s n s s o c x n m
 s t y o s o s t c m c n m
 o s t s c m s x s o o t o m
 n s o m s x n c x s n n t m c
 4ft s m 2 () o s s o a o o c
 a x o n s n s c y m s s o c
 s t c m n y o m s x m n c m
 s s o t s m 4 o n .

() n y n s o s m c y s u y s o
 c y m n s s o c m s n m c
 m y n f m s t c m a o
 o m x o f s o c n s s o s t c m s s o
 s m n m c c o e m a o s o a n o
 s o e m . m s y o y m m t -
 m s t s n m n s o s t c m s x
 m s o e c f m s .
 () o s t c m s o f s s n o
 a o n s o s n s s o c o f n s o
 y n m m s o s n s s o c f o
 n o a e m a o n s t m s x n o
 o o m s m .
 () o s t c m s x a o o o m c s s o o -
 m a x o m m n o o m y .

4. () o n o n s c y m s s o c
 m t c n o s n o m c m
 o o m x t c m s o s t c m m
 o n n o s x n m n s n c f o c n
 n y s m t c c s o m o s x t f
 t m t s n c s o t m c m o s x
 y n t m x o y m c c n s
 e m n o c s m x m (s o s -
 s o m n o a o y m m n m
 c o m) f o y o s n m t o
 c m c m f c o a o c m c m
 s t c m e n c s n m s y m t o
 () s t c m s o f m s x m f t s m
 4 () s t c m s n x m x n f
 a x n m n o s s t s m n s o a o

n s x o o t c m s o m -
 s x n o c n o s t c m s c y m
 : n s s o c x c o s s o t m x
 o a o m c n s o o t c m s o
 o m s x s c
 . o m s m o t s a o s o c
 . s o x c n x o s a s o c n n
 c f o s n y o n o o m s o c a o
 c o c
 . o n o a o t c m c
 . o n o a o m s s o c n o m s
 s o m o s x
 () n o m c s s o c a o y o n c y m
 a o m s c n o m o s x y m
 o f s o .

5. () o r s t c m s n s m x c y m
 m x s t c m s t a m n o s x n m d s
 , n s o m c s n o t a o n t -
 y m n y a m n s o m c s n f m
 y o c s m o s m o s x n s t c m
 m m s t n s o a o s t o
 n s o n m n n s o f i s o m t a n
 n o s o n n t o s n x s m x
 c o s n f m x o : m s m t m o s o
 t s n s x n s n s t s m . n y -
 s m x s o f m s o s t c m s t e n
 n y o s x o m a o n n t m s x n o
 o o m s m n o m x n s o n n f
 o m s o o m c s m m s o c m
 \$ 150, o t o m s s o s t s m c o
 m o n n o s x n m n s n c -
 f o t m c m o s x n t m x o y o
 m s o c f s o m m t m d s m m c
 t o m m n x n o m m n
 s o n y s m n n m s f i s o c
 y a n m o s .

() o n o m m x m s o n y s m
 n m n s o s o m m s c y m
 : n s s o c n s o y m d s m c n s o
 o m s n o c e
 () o m s x n a o
 () m x s t c m s t a m n o s x c y m c x
 s o n y s m x o s n o c y m
 : n s s o c s m 10 n f c x n t
 n f m s o s o s n s s o c x n m
 f n 1.41 o c m c n s o n s n c
 ()

() c n s n n t t f e e o m c -
o f s e c s n c o n m s n n f o m c -
R e m n n n c n s n a x c n n c o m -
n (n o m s n n a s t c m r o y) .

() a n m s n n n o c m R e m n n n -
n c n c n e n s m x s n n o m s
s o . c . c n m s s h n s s s o c s
s o y n a t n n o y o m s n n o n c .

(c) c n m s n n n f o c m R e m n n n -
n c n n s n m s c n n n n n e x

() o o t o s n c o n n .
o t o m n e o n n c o m c s o
m m a o o m n s o c x o n o c .
t s e o c o s o c n p s t o m n s n

() m x s t c m n n e c a x o m s n n -
n e o m R e m n n n n t n c o s f -
o f t s n n x o n s o n s o c f -
s s s m 10 n m c x .

() m x o n n t a n n s x f m s n
c n n n f o m x c n n s -
s o o t m o s o c o f t s n n x o s n
s o s i t m n . c n s s o c n o c y -
n n e o m n .

() m c s n s o i t m n . c n s -
s o o t m c s o f t s n n t s e o n d o c m
s o f s s o f s s m 10 n m
c x n s o c s o n t y c n n t y
n f o o n c x e o h c a s o
s i t m n .

l a * f t s n n
n m n s n n a t s l a * f t s n n o o s o
n x l a x l a x s o f n x l l l n o a t x .
n x
n s n n a t s s o l a x m c s o x o x
o n s n c n s o c s l a o x p n
o e o n s o l a x s n n s o a x
o e s o l l l a x m o a y n

f m c f i r s s t 2003

() c o m c c o t s n o x f
m c f m n o m o m c s x t m c
m x c o n n n x e o f o m x m x
o n n s n c c a s o y - m a o n
s n m n y s o n n n s s s o ()
m s s o m c n n a o t s x f i y) . n
o e a t s n c s n n o m c m c /
n c c o n m n n e o t o m
s o x c o s n e y x n s o t n o n
o m n y o m s s s t s o

() m x o n n n o s t n n f
e o m o t o s o c x f s s o m c m c -
t s x f i y s n f c s n n o c o m c
m c / n c c o n t y o n n f o s
n e t o n s x m f o s s n n s n n
n n n n f o s n t y m s s o m c m /
R o t s x f i y o n m t s o m c
m c / n c c o n s m n m o
f m s s s s t s o m c e o a o s n
n o t y t m o .

2. n c m c f m c f m c o s o c
s n o n c c n m n a c f t s n n c o
t t m s n o m n a c t 2 n m x n
o f t s n n c m t a s s n n e o n .
o s o o m m m c t s e o n o c
s s o c m x o n n n s n n x
s s o c s n n x n c m n f m
n s m n f m s s s t s o m c

3. n n o y o x n n x
o o y a x c i t s n n y n y n
o y a c m n c m a o s n x s t
o m o t o m o y c n m x t o
j y o c c s s e n n s o n n e
n c o m c s o x l m s e o a o
n x n n c f o s o s n o m c s x
o o s o f s s n n s n l x x
n n o x o c o y o m x o y o
n n o c x x e o n e o c s o f n f
n m x / n s n f o t m n s m
x c n / n s n f m t m n s m

4. n n x o m c a x o t s e o c m
s o o o y a x e f m s o c n s o
m c m n c m o s m x s t m f
o t o m o y c n m x t o
n n x o m c a x o c o s o n o
n s y o m n n c o m c s o x l
m s e o n m x n n c f o s o s n .
m n o s x c s o x x e o n o c
s n s n o c n s s o c m n s o
m o x y o c n n c m x x o
n n x o c c n n c c x x
e o n o c s o f x o m n n / n s
m t o c m n n f n n n x m / n
s h m s o c () s t m 3
t t m s

o m c f t s n n n y o

(g) $\int_0^1 x^2 \cos x \, dx$
 $= \int_0^1 x^2 \cos x \, dx$
 $= x^2 \sin x - \int 2x \sin x \, dx$
 $= x^2 \sin x - 2 \int x \sin x \, dx$
 $= x^2 \sin x - 2 \left(-x \cos x + \int \cos x \, dx \right)$
 $= x^2 \sin x + 2x \cos x - 2 \sin x$
 $= x^2 \sin x + 2x \cos x - 2 \sin x + C$

(h) $\int_0^1 x^2 \sin x \, dx$
 $= \int_0^1 x^2 \sin x \, dx$
 $= -x^2 \cos x + \int 2x \cos x \, dx$
 $= -x^2 \cos x + 2 \int x \cos x \, dx$
 $= -x^2 \cos x + 2 \left(x \sin x - \int \sin x \, dx \right)$
 $= -x^2 \cos x + 2x \sin x + 2 \cos x$
 $= -x^2 \cos x + 2x \sin x + 2 \cos x + C$

(i) $\int_0^1 x^2 e^x \, dx$
 $= \int_0^1 x^2 e^x \, dx$
 $= x^2 e^x - \int 2x e^x \, dx$
 $= x^2 e^x - 2 \int x e^x \, dx$
 $= x^2 e^x - 2 \left(x e^x - \int e^x \, dx \right)$
 $= x^2 e^x - 2x e^x + 2e^x$
 $= x^2 e^x - 2x e^x + 2e^x + C$

(j) $\int_0^1 x^2 \ln x \, dx$
 $= \int_0^1 x^2 \ln x \, dx$
 $= \frac{x^3}{3} \ln x - \int \frac{x^2}{3} \cdot \frac{1}{x} \, dx$
 $= \frac{x^3}{3} \ln x - \frac{1}{3} \int x \, dx$
 $= \frac{x^3}{3} \ln x - \frac{1}{6} x^2$
 $= \frac{x^3}{3} \ln x - \frac{1}{6} x^2 + C$

(k) $\int_0^1 x^2 \cos x \, dx$
 $= \int_0^1 x^2 \cos x \, dx$
 $= x^2 \sin x - \int 2x \sin x \, dx$
 $= x^2 \sin x - 2 \int x \sin x \, dx$
 $= x^2 \sin x - 2 \left(-x \cos x + \int \cos x \, dx \right)$
 $= x^2 \sin x + 2x \cos x - 2 \sin x$
 $= x^2 \sin x + 2x \cos x - 2 \sin x + C$

(l) $\int_0^1 x^2 \sin x \, dx$
 $= \int_0^1 x^2 \sin x \, dx$
 $= -x^2 \cos x + \int 2x \cos x \, dx$
 $= -x^2 \cos x + 2 \int x \cos x \, dx$
 $= -x^2 \cos x + 2 \left(x \sin x - \int \sin x \, dx \right)$
 $= -x^2 \cos x + 2x \sin x + 2 \cos x$
 $= -x^2 \cos x + 2x \sin x + 2 \cos x + C$

(m) $\int_0^1 x^2 e^x \, dx$
 $= \int_0^1 x^2 e^x \, dx$
 $= x^2 e^x - \int 2x e^x \, dx$
 $= x^2 e^x - 2 \int x e^x \, dx$
 $= x^2 e^x - 2 \left(x e^x - \int e^x \, dx \right)$
 $= x^2 e^x - 2x e^x + 2e^x$
 $= x^2 e^x - 2x e^x + 2e^x + C$

(n) $\int_0^1 x^2 \ln x \, dx$
 $= \int_0^1 x^2 \ln x \, dx$
 $= \frac{x^3}{3} \ln x - \int \frac{x^2}{3} \cdot \frac{1}{x} \, dx$
 $= \frac{x^3}{3} \ln x - \frac{1}{3} \int x \, dx$
 $= \frac{x^3}{3} \ln x - \frac{1}{6} x^2$
 $= \frac{x^3}{3} \ln x - \frac{1}{6} x^2 + C$

11. $\int_0^1 x^2 \cos x \, dx$
 12. $\int_0^1 x^2 \sin x \, dx$
 13. $\int_0^1 x^2 e^x \, dx$
 14. $\int_0^1 x^2 \ln x \, dx$