

МИНИСТАРСТВО ПРОСВЕТЕ, НАУКЕ, И
ТЕХНОЛОШКОГ РАЗВОЈА РЕПУБЛИКЕ СРБИЈЕ
ЗАЈЕДНИЦА МАШИНСКИХ ШКОЛА РЕПУБЛИКЕ СРБИЈЕ

XXIV РЕПУБЛИЧКО ТАКМИЧЕЊЕ УЧЕНИКА

МАШИНСКИХ ШКОЛА

19. И 20. МАЈ 2017.

МОДЕЛИРАЊЕ МАШИНСКИХ ЕЛЕМЕНАТА И СКЛОПОВА

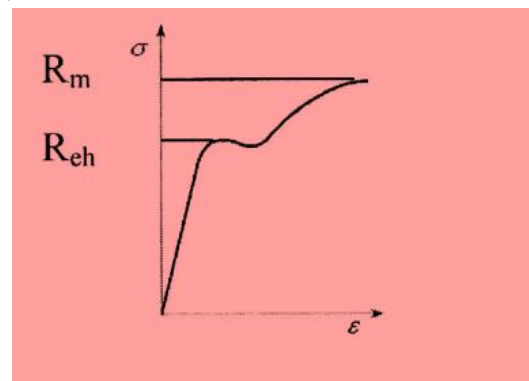
ТЕСТ - КЉУЧ

, 6 25 , 3 , 16
60 .

!

1. _____ 2
_____ 2 %.

2. R_m R_{eh} : 2



3. : 2

a) _____

4. 40 H7, 40 j6, 30 k8, 20 G8. : 2

- .) : **40 H7, 20 G8**
- .) : **40 j6, 30 k8**

5.

!

2

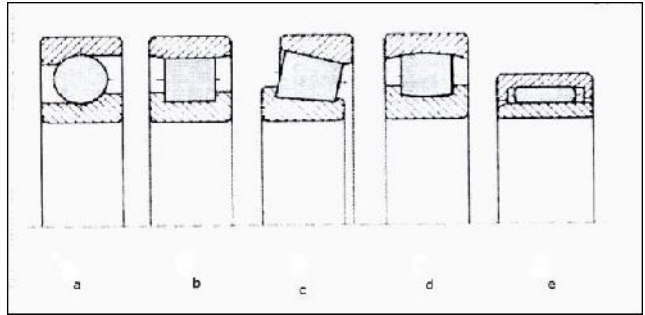
- .) _____ .)
- .) _____ .)
- .) _____ .)
- .) _____ .)

6.

:

2

- .)
- .)
- .)
- .) ()
- .)



7.

:

2

- .)
- .) _____ .)
- .)

8.

:

2

- .)
- .)
- .) ()

9.

:

2

- .)
- .) _____ .)
- .)

10. : 2

)
) _____
)

11. Az $50^{+0.021}_{-0.002}$: 2

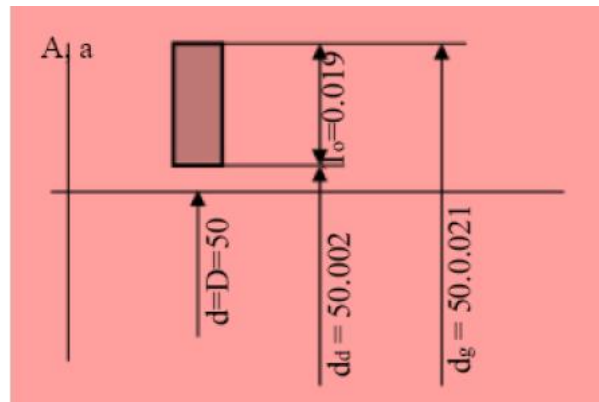
a) $T_0 = 0,021 - 0,002 = 0,019 \text{ mm}$

) $d_g = 50 + 0,021 = 50,021 \text{ mm}$

) $d_d = 50 + 0,002 = 50,002 \text{ mm}$

) $d = 50 \text{ mm}$

12. $50^{+0.021}_{-0.002}$: 2
(d_d, d_g, d, T_0)



13.

:

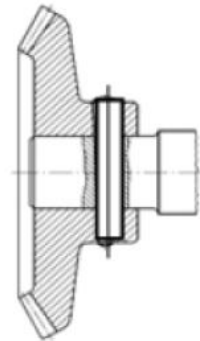
3

- : T = 10 KNcm
- : d = 25 mm
- : d = 8 mm

$$\tau_s = 2F / d \cdot 2\pi = 2 \times 8000 / 8^2 \times 3.14$$

$$\tau_s = 79.6 \text{ N/mm}^2$$

$$F = 2T / d = 2 \times 10 / 2.5 = 8 \text{ KN} = 8000 \text{ N}$$

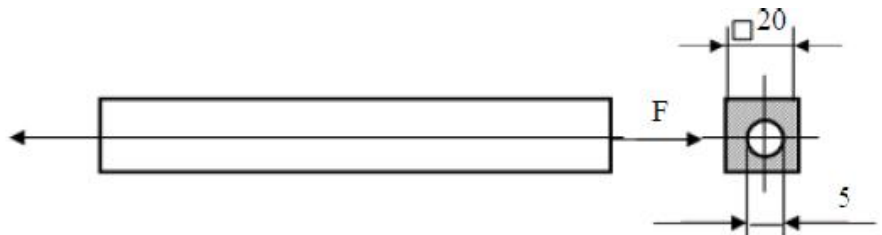


14.

, :

4

- F = 12 KN



$$\sigma_z = F / A = 12000 / 380.365 = 31.55 \text{ N/mm}^2 \text{ ----- 1}$$

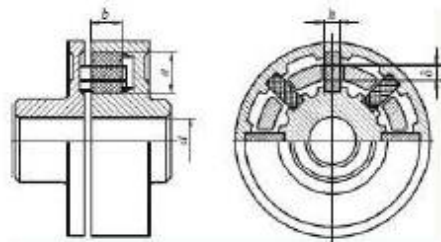
$$A = 20^2 - 5^2 \pi / 4 = 380.365 \text{ mm}^2 \text{ ----- 3}$$

15.

:

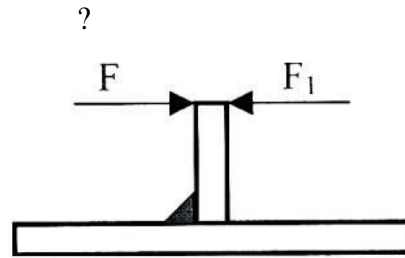
1

- a) _____
-) _____
-) _____



16.

a) F
) F_1

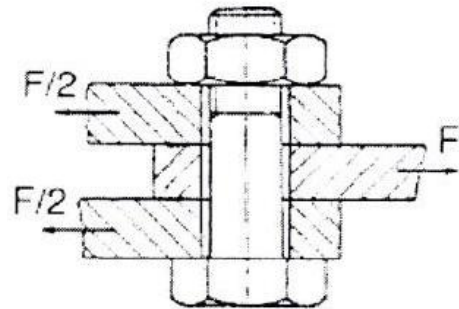


2

17.

a) _____
)
)

?



2

18.

:

a) _____
)

2

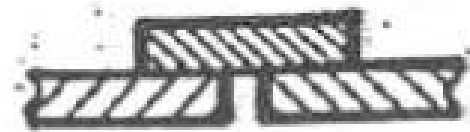
19.

,

:

a) _____ (_____)
)

1



20.

:

a)
)
)
)

2

21. , , : 2

a) _____
)

22. , : 2

a) _____
)
)
)

23. : 2

a) _____
)

24. : 2

a) _____
)
)

25. : 1

a) _____
)
)

