O‘zbekiston Respublikasi
Maktabgacha va maktab ta’limi vazirligi huzuridagi
Ixtisoslashtirilgan ta’lim muassasalari agentligi
2022-2023 o‘quv yili III-chorak
Ixtisoslik fanlaridan choraklik summativ baholash test savollari.
(aniq fanlar yo‘nalishi)
8-sinf
II VARIANT

1-12 algebra, 13-20 geometriya, 21-35 fizika, 36-50 ingliz tili.
(B-bilish; Q-qo‘llash; M-mulohazaga oid test savollari)

O‘quvchi (F.I.SH).....

1. (B 2,5 ball) Tenglamani yeching: $48 - 3x^2 = 0$

A) $x_1 = -4\sqrt{3},\ x_2 = 4\sqrt{3}$ B) $x_1 = -3,\ x_2 = 3$ C) $x \epsilon \theta$ D) $x_1 = -4,\ x_2 = 4$

2. (B 2,5 ball) Tenglamani yeching: $x^2 + 25 = -10x$

A) $x = 5$ B) $x_{1,2} = \pm 5$ C) $x \epsilon \theta$ D) $x = -5$

3. (B 2,5 ball) Quyidagi tasdiqlarni diqqat bilan o‘qib, “To‘g‘ri” yoki “Noto‘g‘ri” deb javob bering.

№	$D = b^2 - 4ac$	To‘g‘ri	Noto‘g‘ri
1	Agar $ax^2 + bx + c = 0, (a \neq 0)$ tenglamada $D = 0$ bo‘lsa, ildizlari bir-biriga teng bo‘ladi.		
2	Agar $ax^2 + bx + c = 0, (a \neq 0)$ tenglamada $D > 0$ bo‘lsa, ikkita haqiqiy ildizga ega.		
3	Agar $ax^2 + bx + c = 0, (a \neq 0)$ tenglamada $D < 0$ bo‘lsa, haqiqiy yechimga ega emas.		
4	Agar $ax^2 + bx + c = 0, (a \neq 0)$ tenglamada $D = 0$ bo‘lsa, to‘la kvadrat bo‘ladi.		

A) Noto‘g‘ri; Noto‘g‘ri; To‘g‘ri; To‘g‘ri B) To‘g‘ri; Noto‘g‘ri; To‘g‘ri; Noto‘g‘ri

C) To‘g‘ri; To‘g‘ri; To‘g‘ri ; To‘g‘ri D) Noto‘g‘ri; To‘g‘ri; Noto‘g‘ri; To‘g‘ri;

4. (Q 3,5 ball) Ildizlaridan biri $3-\sqrt{2}$ ga teng bo‘lgan butun koeffisiyentli kvadrat tenglamani tuzing.

A) $x^2-3x-5=0$ B) $-x^2+6x-7=0$

C) $3x^2-x-5=0$ D) $-x^2-6x+7=0$

5. (Q 3,5 ball) Agar x_1 va x_2 sonlari $3x^2+6x-3=0$ tenglamaning ildizlari bo‘lsa, $\frac{1}{{x_1}^2}+\frac{1}{{x_2}^2}$ ning qiymatini toping. A) -6 B) -8 C) 6 D) 8

6. (Q 3,5 ball) $9x^4+8x^2-1=0$ tenglamaning ildizlari nechta?

A) 4 B) 2 C) $\emptyset$ D) 3

7. (Q 3,5 ball) Tenglamalar sistemasidan $x+y$ ni toping: $\begin{cases} x^3+y^3=36 \\ -3x^2y-3xy^2=9 \end{cases}$

A) 5 B) 3 D) 4 D) 2

8. (Q 3,5 ball) Tenglamani katta ildizining kichik ildiziga nisbatini toping:

$$(x^2-5x+7)^2-(x-2)(x-3)=1$$

A) 2,5 B) 3,25 C) 1,75 D) 1,5

9. (Q 3,5 ball) A, B, C, D, E, F, H variantlardan quyidagi I, II, III, IV savollarning har biriga bittadan bo‘lgan to‘g‘ri javob variantini mos qo‘ying.

Zanjir kasrlarga doir	Javoblar
I. $\frac{9}{5}$ sonini zanjir kasr ko‘rinishda yozilgandagi to‘g‘ri javobni toping.	A) $[2;1,7,2]$ B) $[2;2,2,2]$ C) $\frac{19}{7}$ D) $\frac{19}{4}$ E) $\frac{23}{9}$ F) $[1;1,4]$ H) $\frac{38}{15}$
II. $\frac{29}{12}$ sonini zanjir kasr ko‘rinishda yozilgandagi to‘g‘ri javobni toping.	
III. Ushbu $[2;1,1,7]$ ni zanjir kasr ko‘rinishdan kasr ko‘rinishga keltiring.	
IV. Ushbu $[2;1,2,2]$ ni zanjir kasr ko‘rinishdan kasr ko‘rinishga keltiring.	

A) I-C, II-D, III-A, IV-H B) I-A, II-B, III-E, IV-H

C) I-F, II-B, III-H, IV-C D) I-F, II-B, III-H, IV-A

10. (Q 3,5 ball) Ushbu $\frac{1}{y+\frac{2}{z}}=\frac{5}{17}$ tenglamadan yz ni toping. A) 15 B) 12 C) 14 D) 8

11. (Q 3,5 ball) Daryo oqimi bo‘yicha motorli qayiqda 28 km va oqimga qarshi 25 km o‘tildi. Bunda butun o‘tilgan yo‘lga sarflangan vaqt turg‘un suvda 54 km ni o‘tish uchun ketgan vaqtga teng. Agar daryo oqimining tezligi 2 km/h bo‘lsa, motorli qayiqning turg‘un suvdagi tezligini toping.

A) 10 km/h B) 14 km/h C) 16 km/h D) 12 km/h

12. (M 4,5 ball) $\sqrt{26}$ sonining zanjir kasr ko‘rinishini toping.

A) $5+\cfrac{1}{10+\cfrac{1}{6+\cfrac{1}{6+\vdots}}}$ B) $5+\cfrac{1}{10+\cfrac{1}{10+\cfrac{1}{10+\vdots}}}$ C) $5+\cfrac{1}{10+\cfrac{1}{1+\cfrac{1}{3+\vdots}}}$ D) $5+\cfrac{1}{7+\cfrac{1}{3+\cfrac{1}{2+\vdots}}}$

13. (B 4,5 ball) A, B, C, D, E, F, H variantlardan quyidagi I, II, III, IV savollarning har biriga bittadan bo‘lgan to‘g‘ri javob variantini mos qo‘ying:

Vektorlarga doir	Javoblar
I.Yo‘nalishga ega bo‘lgan kesmaga ... deyiladi.	A)Yo‘nalishdosh vektorlar B)Skalyar(son) C)Qarama-qarshi D)Teng vektorlar E)Vektor F)Perpendikulyar vektorlar H)Birlik(Ort) vektorlar
II. Uzunligi birga teng vektorlarga ... deyladi	
III.Vektorni vektorga qo‘shganda ... hosil bo‘ladi.	
IV.Bir xil yo‘nalgan vektorlaga ... deyladi.	

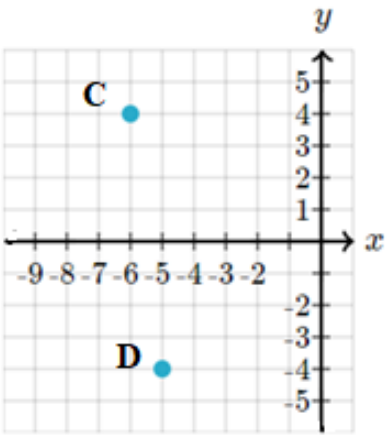
A) I-E, II-D, III-A, IV-B B) I-B, II-H, III-C, IV-C

C) I-E, II-H, III-E, IV-A D) I-D, II-A, III-B, IV-H

14. (B 4,5 ball) Ushbu tenglama bilan berilgan aylananing uzunligini toping.

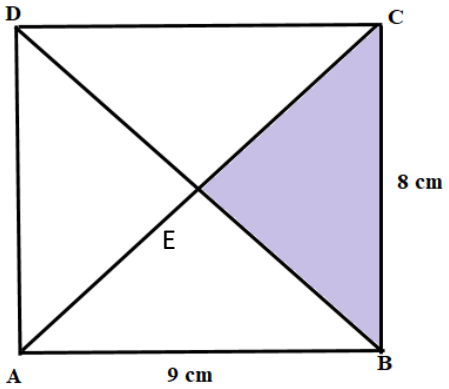
$x^2+y^2+14x-2y-14=0$ A) 8π B) 16π C) 10π D) 24π

15. (Q 5 ball) Tekislikda C va D nuqtalar berilgan $\overrightarrow{CD}+\frac{1}{2}\overrightarrow{DC}$ yig‘indining modulini toping.



A) $\frac{1}{2}$ B) $\frac{\sqrt{63}}{2}$ C) $\frac{\sqrt{65}}{2}$ D) $\frac{\sqrt{66}}{2}$

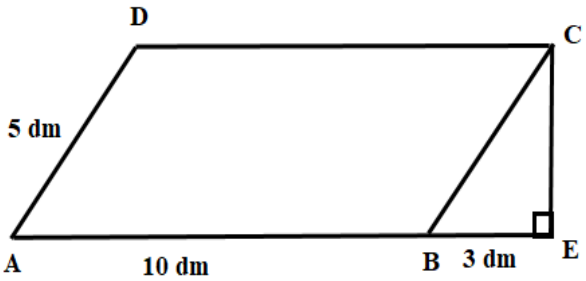
16. (Q 5 ball) $ABCD$ to‘g‘ri to‘rtburchak berilgan. Agar $AB=9\ cm$ va $BC=8\ cm$ bo‘lsa, BEC uchburchakning yuzini toping.



A) 36 cm^2 B) 16 cm^2 C) 24 cm^2 D) 18 cm^2

17. (Q 5 ball) $3x+y+12=0$ to‘g‘ri chiziq va koordinata o‘qlari bilan chegaralangan uchburchakning yuzini aniqlang. A) 36 B) 24 C) 48 D) 72

18. (Q 5 ball) $ABCD$ parallelogrammda $\angle CEB = 90^0$ bo‘lib, $AD = 5\ dm, AB = 10\ dm$ va $BE = 3\ dm$ bo‘lsa, parallelogramm yuzini toping.

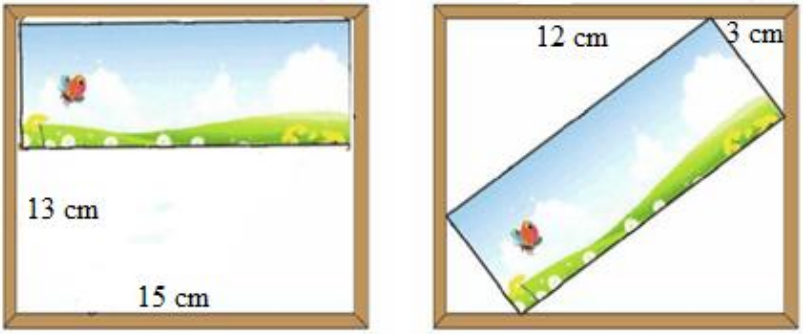


A) 24 dm^2 B) 36 dm^2

C) 40 dm^2 D) 45 dm^2

19. (Q 5 ball) Rombning tomoni 10 cm, diagonallarining nisbati $4:3$ ga teng. Rombning yuzini toping. A) 48 cm^2 B) 96 cm^2 C) 24 cm^2 D) 60 cm^2

20. (M 6 ball) To‘lqin to‘g‘ri to‘rtburchak shaklidagi ramkaning ichki o‘lchamlari 13 cm va 15 cm(I shakl) ramkaga to‘g‘ri to‘rtburchak shakldagi rasmni joylashtirmoqchi edi. E’tiborsizlik tufayli rasm tushib ketdi va II shakldagi holatga o‘tdi. Rasmning o‘lchamlarini(II shakl) topish mumkin bo‘lsa, uning yuzini toping.



A) 80 cm^2 B) 75 cm^2 C) 85 cm^2 D) 130 cm^2

21. (B 2 ball) Qaysi zarra manfiy elementar zaryadga ega?
A) neytron. B) elektron. C) proton. D) β-zarra.

22. (B 2 ball) Elektr doyimisi to‘g‘ri ko‘rsatilgan javobni tanlang.
A) $\varepsilon_0 = 1{,}6 \cdot 10^{-19}\ C$. B) $\varepsilon_0 = 9{,}1 \cdot 10^{-31}\ kg$.

C) $\varepsilon_0 = 8{,}85 \cdot 10^{-12}\ \frac{F}{m}$. D) $\varepsilon_0 = 9 \cdot 10^9\ \frac{Nm^2}{C^2}$

23. (B 2 ball) Keltirilgan tenglamalardan qaysi biri ketma-ket ulangan kondensatorlarni umumiy elektr sigimini hisoblash formulasi?
A) $C_u = C_1 + C_2 + \ldots + C_n$. B) $C = 4\pi\varepsilon_0 R$.

C) $\frac{1}{C_u} = \frac{1}{C_1} + \frac{1}{C_2} + \cdots + \frac{1}{C_n}$. D) $C = \frac{\varepsilon\varepsilon_0 S}{d}$.

24. (B 2 ball) Berilgan formulalardan qaysi biri Zanjirning bir qismi uchun Om qonunini ifodalaydi? A) $R = R_0(1 + \alpha)$. B) $R = \frac{U}{I}$. C) $R = \rho\frac{l}{s}$. D) $R = \frac{Q}{I^2 t}$.