**REPITITSION TEST 1**

**1-variant.**

**MATEMATIKA**

**1.**  va bo`lsa, m nechaga teng? A) 0 B) 1 C) -1 D) 2 E) -2

**2.** Musbat butun sonlar uchun kattaliklarni qaraylik. Quyidagi munosabatlarning qaysi biri doimo o`rinli?

**A) B)**

**C) D)**

**E)**

**3.**  tenglamaning ildizlari yig`indisini toping?

A) 4 B) 5 C) -10 D) -4 E) -5

**4.**  tenglamalar sistemasi yechimining juftligi nechta? A) 8 B) 4 C) 3 D) 2 E) 1

**5.**  tenglamaning ildizlari shartni qanoatlantirsa *k* ning qiymatini toping?

A) B) C)

D) E)

**6.** : ifodani soddalashtiring.

A) B) C)

D) E)

**7.**  birhadning darajasini toping?

**A)** **B)** **C)** **D)** E) 12

**8.** va bo`lsa,

A) 4,5 B) 7 C) 3 D) 1,5 E) 2,4

**9.**  tenglamalar sistemasining barcha haqiqiy yechimlari , bo`lsa,

ni toping?

A) 1592 B) 3224 C) 3482 D) 4217 E) 1728

**10.** Bir gala chumchuq 1 tadan shoxga qo`nganda, 1 ta chumchuq ortib qoladi, ikkitadan qo`nganda esa 1 ta shox ortib qoladi, Nechta chumchuq va nechta shox bor?

A) 1 va 2 B) 4 va 3 C) 3 va 4 D) 4 va 5 E) 5 va 4

**11.** Agar cheksiz kamayuvchi geometric progressiyaning barcha hadlari yig`indisi funksiyaning [-2;3] kesmadagi eng katta qiymatiga teng, va ga teng bo`lsa, cheksiz kamayuvchi geometric progressiyaning maxrajini toping?

A) 2 B) 2/3 C) 3/2 D) 3 E) 0

**12.**  ifodaning qiymatini toping. {}- sonning kasr qismi. []-sonning butun qismi.

A) 0 B) 1 C) 2 D) 3 E) 5

**13.** Bir kunlik dars jadvali turli fanlar bo`yicha 3 ta dars bor. 9 ta fandan iborat bo`lgan shunday jadvallar sonini toping?

A) 740 B) 402 C) 720 D) 504 E) 450

**14.** Berilgan J; A; S natural sonlar uchun BBS(J)=20 BBS(A)=40 va BBS(S)=60 tenglik o`rinli bo`lsa, BBY(J)+BBY(A)+BBY(S) ning qiymatini toping? (BBS-butun bo`luvchilar soni, BBY- butun bo`luvchilar yig`indisi)

A) 0 B) 1440 C) 28804 D) 31 E) aniqlab bo`lmaydi

**15.** *j* parametrning qanday qiymatida

va to`g`ri chiziqlar kesishish nuqtasi koordinata tekistligining IV chorak bissekrissasida yotadi?

A) 73/4 B) 37/4 C) 43/7 D) 47/3 E) 31/22

**16.**  ko`phadning 4-o`rinda turgan koeffitsiyentini toping?

A) 624 B) 405 C) 270 D) 116 E) 80

**17.** Oxirgi raqami 1 bo`lgan va [49; 350] kesmada tegishli bo`lgan barcha natural sonlar yig`indisini toping?

A) 5921 B) 4850 C) 5960 D) 5880 E) 4682

**18.**  A) 13 B) 18 C) 196 D) 144 E) 225

**19.** Ta`lim muassasasida barcha o`quvchilar kamida bitta ingliz yoki nemis tilida so`zlasha oladilar, ayrimlari esa ikkala tilni ham biladilar. O`quvchilarning 80% ingliz tilini 70% nemis tilini biladilar, ikkala tilni ham biladigan o`quvchilar barcha o`quvchilarning necha foizini tashkil qiladi?

A) 40 B) 50 C) 60 D) 30 E) aniqlab bo`lmaydi

**20.**  ifoda natural qiymat qabul qiladigan barcha natural a lar yig`indisini toping?

A) 2 B) 3 C) 9 D)10 E) aniqlab bo`lmaydi

**21.** Grafigi berilgan parabolaning ordinatasi qaysi?

A) 4 B) 4,5 C) 5 D) 2 E) 3,5

**22.** Quyidagi shartlarning qaysi biri bajarilganda chiziqli funksiyadan olingan ixtiyoriy nuqta uchun abssissa va ordinata o`qlarigacha bo`lgan masofalar teng bo`ladi? (*y=kx+b*)

**A)** *y=x* chizig`iga nisbatan simmetrik bo`lsa

**B)** *k≠b* **C)**  **D)** *y=x* , *k=b* **E)**

**23.**  funksiya funksiyaga teskari funksiya bo`lsa, A) 1 B) C) 0 D) E)

**24.**  tenglamalar sistemasini qanoatlantiruvchi nechta butun sonlar bor?

A) 8 B) 9 C) 12 D) 13 E)

**25.**  tanglama *k* ning qanday qiymatida bitta manfiy ildizga ega?

A) B) C) D) E)

**26.**  sonni standart shaklga keltiring.

A) B) C)

D) E)

**27.** Natural sonlar qatori har bir natural sonning kvadrati bilan tugaydigan quyidagi qismlarga ajratilgan:

1, (2,3,4), (5,6,7,8,9), (10,11,12,13,14,15,16)…

10-qismdagi sonlar yig`indisini toping?

A) 2039 B) 931 C) 1729 D) 559 E) 431

**28.**  kubik parabolaning grafigi A(1; 18) va B(-1;14) nuqtalardan o`tadi. Qaysi nuqtada bu funksiya OX o`qini kesib o`tadi? A) (3;0) B) (-3;0) C) (2;0) D) (-2;0) E) (1;0)

**29.** Chizmada (-11;3) oraliqda aniqlangan f(x) funksiya hosilasining grafigi tasvirlangan nechta nuqta f(x) funksiya grafigiga urinma y=3x-11 to`g`ri chiziqqa parallel bo`ladi yoki u bilan ustma-ust tushadi?

****

**A)** 4 **B)** 0 **C)** 3 **D)** 6 E) 5

**30.**  berilgan funksiyaga teskari funksiyani aniqlang? A) B) C)

D) E) aniqlab bo`lmaydi

**31.** Kubning pastki yon tomonida 6 ta, chap tomonida 4 ta, va orqa tomonida 2 ta nuqta bor. Kubga qarab eng ko`pi bilan nechta nuqtani ko`rish mumkin?

A) 12 B) 13 C) 14 D) 15 E) 16

**32.** 1 kilogram 20 so`mdan olingan olmaning 3 kilogramidan 1 kilogram sharbat olinib, 72 so`mdan sotiladi. Olmaning narxi 5% kamayganda foyda nisbatining o`zgarmasligi uchun sharbatning narxi avvalgi narxidan necha so`m kam bo`lishi kerak?

**A)** 18  **B)** 12 **C)** 15 **D)** 16 **E)** 19

**33.** Agar parabolaning simmetriya o`qi tenglamasi x=-1 bo`lsa, m ning qiymatini toping?

A) 2 B) 3 C) 4 D) 5 E) 6

**34.**  tenglamaning eng kichik ildizini toping. A) B) C) D) 2 E) 1

**35.**  tenglamaning barcha butun yechimlari yig`indisini toping? A) 6 B) -6 C) -1 D) -3 E) -5

**36.**  tenglamning yechimlari ayirmasini toping?

A) 16 va -16 B) 42 va -42 C) 30 va -12 D) 42 va 30 E) 0