**Oliy o‘quv yurtlariga tayyorlanuvchilar uchun**



**abituriyent tayyorlov markazi**

**S A V O L L A R K I T O B** I

**ABITURIYENT**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 **Imzo**

**Abituriyent diqqatiga !**

*Test topshiriqlarini yechishdan avval savollar kitobini varaqlab unda har bir fan*

*bo‘yicha 30 ta savol mavjudligini tekshiring. Agar savollar soni kamligi*

*aniqlansa, darhol auditoriya rahbariga ma’lum qiling.*

**Variant**

Fanlar : Blok. Ingliz tili

 Blok. Matematika

 Blok. Fizika

OMAD YOR BO‘LSIN !!!

Qarshi – 2019

Telegram manzilimiz @qarshi\_Alfa .

 **ENGLISH**

1. Brenda is … ideal for … job. She has … wealth of … experience.A) the / the / - / - B) - / the / a / -

C) an / a / - / the D) - / a / a / an

2. A warning sign 'Overheat' may come on, … turn off the appliance

at once.

A) for whom B) on whose own

C) in which case D) to whom

3. … there was no one at home, I left the parcel in the shed.

A) Realising B) Having been realised

C) Being realised D) Having realise

4. Please don't put yourself out making a meal. A sandwich … .

A) will be doing B) is going to do

C) will have done D) will do

5. … the centuries, flowers have been used for cooking in every conceivable way.

A) Along B) During C) Through D) Across

6. You can't have an apple, and you can't have an orange … .A) also B) either C) too D) neither

7. He made all the window-frames … oak; it took a long time.A) in to B) out of C) along with D) through

8. – Why were you so tired yesterday?

 – Because I … all morning.

A) jog B) had been jogging

C) was jogged D) have been jogging

9. Remind Tony about the party … he’s forgotten.

A) in case B) unless

C) provided that D) except

10. I'm quite pleased that we do have the capacity to produce … much food.

A) such B) enough C) too D) that

11. You won’t … to connect the Internet once you’ve got broadband as you’re online twenty four hours a day.

A) need B) must C) ought D) able

12. We … while we were on holiday.

A) were burgled our house

B) had our house burgled

C) had burgled our house

D) got burgled our house

13. She’d … start revising if she wants to do well in the exam next week.

A) rather B) preferred C) make D) better

14. … the couple you met in France last year staying at the same hotel?

A) Did B) Have C) Were D) Could

15. As long as I’m alive, I … to be turned into a vegetable garden.

A) let my orchard to be cultivated

B) get my orchard to cultivate

C) have my orchard cultivated

D) allow my orchard to cultivate

16. The greater the demand, … the price.

A) high B) the higher C) higher D) highest

17. If aspirin … my headache, I will take a couple tonight instead of this horrible medicine.

A) ease B) eased C) would ease D) will ease

18. … getting a pet tarantula?

A) Does Claire really think of

B) Is Claire really thinking of

C) Has Claire really thought that

D) Has Claire really thinking that

**Read the text. Then choose the correct answer for the gaps 19-21 in the text.**

Alpha, both as a symbol (79) … term, is used to refer to or describe a variety of things, including the first or most significant (80)… of something. The New Testament has God declaring himself to be the "[Alpha and Omega](https://en.wikipedia.org/wiki/Alpha_and_Omega), (81)… beginning and the end, the first and the last."

19. A) or B) but C) and D) nor

20. A) occurring B) occur C) occurrence D) occurred

21. A) a B) – C) an D) the

**Read the text. Then choose the correct answer to questions 22-24.**

Mona doesn’t like to ask people for help. But it is hard for her to perform daily activities on her own. She is almost 13, yet she is no larger than a 5-year-old. Mona has trouble keeping her balance and can’t walk very far. When she uses a wheelchair, she can’t push it herself.

Fortunately, Mona has a wonderful service dog named Sam. A service dog is a dog that has been trained to assist someone who has a physical problem. Sam lets Mona lean on him when she walks. He also pulls her wheelchair and turns lights on and off. When Mona drops something, Sam picks it up. He even pulls her socks off at night. Sam also helps Mona with everyday tasks at school. He carries her books from class to class in a special backpack. He puts Mona’s completed assignments in her teachers’ homework trays. In the lunchroom he throws away her trash.

Besides making Mona less dependent on other people, Sam helps her lead a fuller life. Mona’s classmates flock around Sam like geese. This has helped her make friends. Sam also helps Mona be more active. With his aid, she raised over $500 in a walk-a-thon for her local humane society.

Because of Sam, Mona doesn’t have to ask people for help. Sam brings her closer to other kids. And he even helps her contribute to her community.

22. Using the passage as a guide, which of the following dogs is most likely a service dog?

A) Frank's dog, who turns on the lights when Frank enters the room.

B) Raul's dog, who fetches the newspaper for Raul while he is busy getting dressed.

C) Mei's dog, who licks Mei’s face when she cries.

D) Teddy's dog, who loves to play catch, go on walks, and watch movies with the family.

23. According to the passage, Sam helps Mona by

I. helping her to walk

II. performing everyday tasks for her

III. bringing her closer to her classmates

A) I only

B) I and II only

C) II and III only

D) I, II, and III

24. Which of the following would be the best title for this passage?

A) Why Mona Loses Her Balance

B) How Mona’s Service Dog Helps Her

C) Sam Helps Mona at School

D) Raising Money for the Humane Society

**Read the text. Then choose the correct answer to questions 25-27.**

One of South America’s mysteries is Easter Island. Easter Island, also called Rapa Nui and Isla de Pascua, 3,600 km (2,237 mi) west of Chile, is a volcanic island with an interesting and partly unknown history. The island was named by the Dutch explorer Jacob Roggeveen because he encountered it on Easter Sunday 1722. He was the first European to find the island. The official name of the island, Isla de Pascua, means Easter Island in Spanish. This island is famous because of the approximately 887 huge statues which were found there. The statues consist of heads and complete torsos, the largest of which weighs 84 tons! These monuments, called moai, were carved out of compressed volcanic ash, called tuff, which was found at a quarry at a place called Rano Raraku. Statues are still being found. Some of the monuments were left only half–carved. Nobody knows why Rano Raraku was abandoned. It is thought that the statues were carved by the ancestors of the modern Polynesian inhabitants. But the purpose of the statues and the reason they were abandoned remain mysteries.

25. Who named the island “Easter Island”?

A) An explorer

B) A Dutch explorer

C) The original inhabitants

D) Both A and B are correct.

26. Who was Jacob Roggeveen?

A) A European who found the island

B) An explorer who named the island

C) A person who carved several statues

D) Both A and B are correct.

27. Why isn’t the number of statues known?

A) The island is too big to explore.

B) Statues are still being found.

C) Some statues were taken away.

D) None of the above

**Read the text. Then choose the correct answer to questions 28-30.**

Marco Polo was born in 1254 in the Venetian Republic. The city of Venice, Italy was at the center of the Venetian Republic. When he was 17 years old, he went to China with his father, Niccolo, and his uncle, Maffeo. Pope Gregory X sent them to visit Kublai Khan, the emperor of China. Kublai Khan liked Marco Polo. He enjoyed Marco Polo’s stories about many lands. Kublai Khan gave Marco Polo a job. He sent Polo on diplomatic missions. He also made him governor of Yangzhou, an important trading city.

When Marco Polo went back to the Venetian Republic, he talked about his life in China. Few believed his stories. In 1298, he went to jail during a war between Venice and Genoa. While he was a prisoner in jail, he dictated his stories about China to another man in jail. The man wrote down the stories. The stories became the book, “The Travels of Marco Polo.” Each chapter of the book covers a specific region of China. Each chapter is about the military, farming, religion, and culture of a certain area. The book was translated into many languages.

Marco Polo got out of jail in 1299. He went back to Venice to join his father and uncle. He became very rich. In 1300 he got married, and he and his wife had three children. Marco Polo died in 1324. He was almost 70 years old.

28. Who did Marco Polo visit in China?

A) Niccolo

B) Maffeo

C) Pope Gregory X

D) Kublai Khan

29. In China, Marco Polo worked as a…

A) storyteller. B) governor.

C) writer. D) trader.

30. Who wrote down Marco Polo’s stories?

A) His father B) His uncle

C) A prisoner D) The emperor

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**MATEMATIKA**

31. $500!$ soni nechta nol bilan tugaydi?

A) 120 B) 125 C) 124 D) 100

32 Agar a tub son bo’lsa, quyidagilardan qaysi biri toq son?

$A) a^{3}+3a^{2}-4a+46 $ B) $a^{3}-a^{2}+3$

 $C) a^{5}+2a^{4}-5a^{2}+24$ D) aniqlab bo’lmaydi.

33. $\frac{1}{4∙5}+\frac{2}{5∙7}+\frac{3}{7∙10}+\frac{4}{10∙14}+\frac{4}{10∙14}+…+\frac{7}{25∙32}$ Hisoblang.

A) $\frac{7}{32}$ B)$\frac{9}{32}$ C) $\frac{47}{800 }$ D) $\frac{33}{800}$

34. $x^{2}-4x+6=\sqrt{2x^{2}-8x+12}$ tenglamaning ildiziga qarama qarshi sonning teskarisini toping.

A) -2 B) -0,5 C) 2 D) 0,5

35. Tenglama ildizlari o’rta geometrigining uning ildizlari o’rta arifmetigiga nisbatini toping? $\frac{15}{x^{2}+x-2}=10-x^{2}-x$

A) $-2\sqrt[4]{35}$ B) $-\frac{\sqrt[4]{35}}{2}$ C) $\frac{\sqrt[4]{35}}{2}$ D) $2\sqrt[4]{35}$

36. $y=ln⁡(x^{3}+cos3x-1)$ Funksiyaning hosilasini toping?

A) $\frac{3x^{2}-3sin3x}{x^{3}+cos3x-1}$ B) $\frac{3x^{2}+3sin3x}{x^{3}+cos3x-1}$ C) $\frac{3x^{2}-sin3x}{x^{3}+cos3x-1}$ D) $\frac{3x^{2}+sin3x}{x^{3}+cos3x-1}$

37. Chizmada $y=f(x)$ funksiya grafigi

tasvirlangan $f\left(x\right)∙f^{'}\left(x\right)<0$

tengsizlikni $\left[-6;6\right]$ kesmadagi yechimlarini toping?



A) $\left(-4;0\right)∪\left(5;6\right) $

B) $\left(-6;-4\right)∪\left(-4;-3\right)∪\left(4;5\right)∪(5;6)$

C) $\left(-4;-3\right)∪\left(0;4\right)∪(5;6)$

D) $\left(-6;-4\right)∪(-3;0)∪(4;5)$

38. $f\left(x\right)=\frac{x^{5}}{5}+\frac{5x^{3}}{3}-6x+15$ funksiyaning o’sish oralig’iga tegishli bo’lgan eng kichik tub sonni toping?

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

39. ABC uchburchak uchun AD bisektirisa, AE balandlik bo’lsin, Agar

<ABC$-<ACB=28°$ bo’lsa u holda $<DAE$ burchakni toping. (gradusda)

A) 13 B) 14 C) 15 D) Aniqlab bo’lmaydi

40. A(-1;1) va B(2;2) nuqtalar uchun AC+BC masofa eng kichik bo’ladigan qilib OX o’qidan C nuqta olingan bo’lsa, C nuqtaning kordinatalarini toping?

A) (1;0) B) (2;0) C) (0;0) D) (1;1)

41. $\vec{a}\left(m;\sqrt{5};4\right)$ vektorning uzunligi 5 dan katta bo’ladigan m ning barcha qiymatlarini toping?

A) $(-\infty ;-2)∪(2;\infty )$ B) (2;5) C) $(-\infty ;-4)∪(4;\infty )$

D) $(-\infty ;-3)∪(3;\infty )$

42. Komandada 12 sportchi bo’lib , ularning 5 tasi sport ustasi. Sportchilar ichidan qura tashlash orqali uch sportchi tanlanadi. Tanlangan sportchilarning hammasi sport ustasi bo’lishi ehtimolligini toping?

A) $\frac{5}{22}$ B) $\frac{2}{11}$ C) $\frac{1}{22}$ D) $\frac{3}{22}$

43. Rasmda berilgan ABC uchburchakda |AD| tomon |BC| tomonga perpendikulyar bo’lsa . |AD| bissektrisa va |BD|=|EC| teng va burchak <EBC =20$°$ bo’lsa burchak <BCA ni toping?

A) $45° $ B) $50°$ C) $55°$ D) $60°$

44. Yig’indini 7 ga bo’lgandagi qoldiqni toping. 8+79+789+7794+77776

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

45. P(x)=x40–3x20+ax10+b ko’phad x2–2x ga qoldiqsiz bo’linsa a va b sonlarning ko’paytmasini toping.

A)4 B)6 C)14 D)0

46. 84858687…121122123 sonining raqamlari yig’indisini toping. A)548 B) 360 C)447 D)374

47. 18 xonali eng katta sonni 6 xonali eng kichik songa bo’linsa, bo’linmaning butun qismi necha xonali?

 A)13 B) 12 C)8 D) 6

48 $. \frac{x^{4}-7x^{3}+16x^{2}-28x+48}{x^{2}-4x+3}=0$Tenglama nechta haqiqiy ildizga ega? A)0 B)1 C)2 D)3

49. sin5x-3cos2x=4 tenglamani yeching.

A)$\frac{π}{2}$+πn, n$\in Z$ B)$-\frac{π}{2}$+πn, n$\in Z$

C) $\frac{π}{2}$+2πn, n$\in Z D)π$+πn, n$\in Z$

50. 4x$∙$arccos(x2-4x+5)$>x$2 tengsizlikni yeching.

A)$\left\{2\right\}$ B)(1;5) C) (-2;3) D)$∅$

51. Tomoni 24sm bo’lgan romb tog’ri prizmaning asosini tashkil etadi. Prizmaga radiusi 6smli shar ichki chizilgan bo’lsa, prizma hajmini toping.

A) 1728 B)6912 C)5184 D)3456

52. 2001 dan kichik nechta tub sonning raqamlari yig’indisi 2 ga teng.

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

53. cos33°=m bo’lsa sin24°=?

 A)2m-1 B) 2m2-1 C) 1-2m D)1-2m2

54. Cheksiz kamayuvchi geometrik progressiyaning yig’indisi 56 ga hadlari kvadratlarining yig’indisi asa 448 ga teng. Progressiyaning maxrajini toping.

A) 0,25 B) 0,85 C) 0,75 D) 0,5

55. y=$\frac{10x}{5x-3}$ funksiyaning grafigiga x0=1 nuqtada o’tkazilgan urinma va kordinata o’qlari bilan chegaralangan uchburchakning yuzini toping.

A) $\frac{120}{12}$ B) $\frac{123}{12}$ C) $\frac{125}{12}$ D) $\frac{135}{12}$

56. 0,5 metr uzunlikdagi silindrik g’o’la 5 marta dumalaganda 3 metr masofani bosib o’tadi. G’o’la hajmini toping (m3) (π=3)

A) 0,005 B) $\frac{25}{144}$ C) $\frac{25}{432}$ D) $\frac{3}{200}$

57. ABC uchburchakda

$∠B=∠D$ bo’lib, AC=12

EC=4 va $S\_{CDE}=12$ bo’lsa, $S\_{ABED}=?$

A) 108 B) 48 C) 98 D) 96

58. $x^{-y}$=3 bo’lsa, $\left(x^{y+1}\right)^{-2}$ ni toping.

A) $9x^{2}$ B) $9x^{-2}$ С) 3$x^{2}$ D) 3$x^{-2}$

59. Agar $f\left(x^{-2}+x\right)=\frac{x^{2}}{x^{3}+1}+x:0,5+\frac{2}{x^{2}}+3$ bo’lsa, $f\left(3\right)$ ning qiymatini toping.

A) $9\frac{1}{3}$ B) 8 C) $8\frac{2}{3}$ D) $-4\frac{3}{4}$

60. 1;3;4;5;7;8;9 raqamlardan nechta uch xonali nomerlar tuzish mumkin

A) 840 B) 343 C) 49 D)35

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**F I Z I K A**

61. Ikkinchi sayyora Venera (Zuhro) Quyosh atrofida aylanadi. Veneraga nechta kuch ta’sir etadi?

A) 1 B) 2 C) 3 D) 4

62. Nuqtaviy zaryaddan 4 sm masofadagi elektr maydon potensiali 16 V bo’lsa, zaryaddan qanday masofada (sm) elektr maydon kuchlanganligi 64 V/m bo’ladi?

A) 5 B) 10 C) 16 D) 8

63. Graviton spinining foton spiniga nisbati nimaga teng?

A) 1/2 B) 1 C) 2 D) 3

64. Gorizontga nisbatan burchak ostida otilgan jism harakatining biror onidagi normal tezlanishi  bo’lsa ushbu tezlanish vektori vertikal bilan qanday burchak hosil qiladi?

A) 30o B) 37o C) 45o D) 60o

65. Elektromagnit tebranish konturida kondensator zaryadlanib induktiv g’altakka ulandi. Quyidagi vaqt intervalining (0÷2,3T) qanchasida tokning ortishiga induksion tok qarshilik qiladi?

A) T B) 1,25T C) 1,3T D) 1,75T

66. Amplitudasi 3,3 sm bo’lgan prujinali mayatnikda yuk muvozanat vaziyatidan boshlab siljishi uchinchi marta 1,1 sm ga teng bo’lgan vaqt ichida qanday yo’lni (sm) bosib o’tadi?

A) 8,8 B) 7,7 C) 13,2 D) 3,3

67. Uchta turist bazaga tezroq yetib olish kerak. Ularda faqat bitta velosiped bo’lib, unda faqat ikki kishi harakatlana oladi. Shuning uchun uchinchi kishi piyoda yuradi. Velosipedchi ikkinchi turistni ma’lum masofaga yetkazgach, turist piyoda harakatni davom ettiradi, ozi esa ortiga uchinchi turistni olib kelish uchun qaytadi. Agar piyodaning tezligi 4 km/h, velosipedda 20 km/h bo’lsa manzilga yetib kelishda o’rtacha tezilkni (km/h) toping. (Barcha yetib kelgach vaqt hisobi to’xtatiladi)

A) 5 B) 12 C) 10 D) 6

68. Torrichelli formulasini ko’rsating

A) B) *gρh* C)  D)

69. Uy tomidan tomchi 0,1 s vaqt oralatib tommoqda. 10-tomchi tomganda, 3- va 7- tomchilar orasidagi masofa necha metr bo’ladi?

A) 2,4 B) 1 C) 1,6 D) 2

70. Angren ko’mir konidagi og’ma lift gorizont bilan 30o burchak tashkil etib 10 m/s2 tezlanish bilan tekiz tezlanuvchan harakat qilib ko’tarilmoqda. Bu lift ichidagi 4 kg massali jism liftni qanday kuch bilan bosadi?

A) 28 B)  C)  D) 40

71. Ikkita sharcha biror balandlikdan erkin tushmoqda. Ikkinchi sharcha yo’lning yarmida yupqa shishaga urildi va tezligini 20 % ga yo’qotdi. Sharchalarning yerga urilishdagi tezliklari nisbatini toping.

A) 1,2 B)  C) D) 1,12

72. Kamerton tovushining tebranishlar chastotasi temperatura ortishi bilan qanday o’zgaradi?

A) kamayadi B) ortadi C) o’zgarmaydi

D) avval ortib, keyin kamayadi

73. Perrondagi yo'lovchi vagon eshigiga 32 m qolganda poyezd 1 m/s2 tezlanish bilan harakatlana boshladi. Yo'lovchi qanday eng kichik o'zgarmas tezlik (m/s) bilan poyezd ortidan harakatlanganda o'z vagoniga yetib oladi?

 A) 2 B) 4 C) 6 D) 8

74. Bolsman teoremasi: Agar molekulalar sistemasi T temperaturada issiqlik muvozanatida bo’lsa, u holda o’rtacha kinetik energiya barcha erkinlik darajalari bo’yicha tekis taqsimlanadi va molekulaning har bir erkinlik darajasi uchun bu energiya …. ga teng bo’ladi.

A) ikT/2 B) kT/2 C) iRT/2 D) kT

75. Istalgan moddaning zarralari orasida o’zaro ta’sir — tortishish va itarish kuchlari mavjuddir. Bu kuchlar … tabiatga ega.

A) gravitatsion

B) elektromagnit

C) kuchli o’zaro ta’sir

D) kuchsiz o’zaro ta’sir

 76. Toshning maksimal ko’tarilish nuqtasidagi kinetik energiyasi otilish nuqtasidagi kinetik energiyasining 25 % ni tashkil qilishi uchun toshni gorizontga qanday burchak ostida otish kerak?

A) 30o B) 60o C) 45o D) 90o

77. Bir-biriga parallel o’rnatilgan (𝛼=0o) ikkita ko’zguda hosil bo’ladigan tasvirlar soni nimaga teng?

A) 1 B) tasvir hosil bo’lmaydi C) *∞* D) 2

78. Quyida nomi tilga olingan nurlarni to’lqin xossasi ortib borish tartibida ko’rsating; 1. ko’k, 2. zarg’aldoq, 3. yashil, 4. havo rang, 5. sariq.

A) 1,2,3,4,5 B) 5,4,3,2,1 C) 1,4,3,5,2

D) 2,5,4,3,1

79. Shar shaklidagi suv tomchisiga (𝑛=) yorug’lik nuri 45o  burchak ostida tushmoqda. Sharning ichidan o’tib, u shar-havo chegarasidagi nuqtaga yetib borguncha 60 sm yo’l o’tdi. Sharning sirtini yuzini (m2) toping. 𝜋≈3

A) 2,25 B) 3 C) 1,69 D) 1,44

80. Har biri 300 V maksimal kuchlanishga mo’ljallangan va sig'imlari 500 va 300 pF bo'lgan ikkita kondensator bir-biriga ketma-ket ulangan. Bu kondensatorlar birlashmasiga qanday maksimal kuchlanish berish mumkin (V)?

A) 480 B) 300 C) 600 D)150

81. Dengiz sathidan 12 m balandda joylashgan kema radiolokatori yordamida dengiz ustidagi nishonni qanday eng katta masofada (km) payqash mumkin?

A) 12,4 B) 21,1 C) 36 D) 41,2

82. Fokus masofasi F = 20 sm bo'lgan linzadan b = 10 sm uzoqlikda buyumning kichiklashgan mavhum tasviri hosil bo'ldi. Buyum linzadan qanday a (sm) masofada joylashgan?

A) 7,5 B) 20 C) 14,4 D) 9,6

83. Galvanoplastika nima?

A) elektroliz yordamida model relyeflaridan metall nusxalarni olish

B) eritilgan rudalarni elektroliz qilish yo’li bilan ajratib olish

C) metall buyumni vannada anod sifatida ishlatib dag’alliklar tekislanishi

D) detallarning sirtini zanglamaydigan metall bilan qoplash.

84. Chizmada α = 45o bo’lsa I2 /I1ning qiymatini toping.



A) 7 B) 1 C) 1/7 D) 1/8

85. Radioaktiv yemirilish natijasida uran  qo'rg'oshin ga aylanadi. Bunda u necha marta α- va β - yemirilishlarga duch kelgan?

A) 8 va 6 B) 6 va 8 C) 9 va 6 D) 8 va 5

86. Normal sharoitda gaz molekulalarining ilgarilanma harakat erkinlik darajasi ii va aylanma harakat erkinlik darajasi ia ga ega bo`lishi mumkin. Birinchi gaz uchun ii-ia = 0. Xuddi shunday miqdordagi ikkinchi gaz uchun ii+ia= 5 ga teng. Bir xil haroratda bu gazlarning ichki energiyalar nisbati U1/U2 nimaga teng?

A) 1 B) 0,6 C) 5/3 D) 6/5

87. Sig'imi 2 litr bo'lgan berk idishda 20°C temperaturada to'yingan suv bug'i bor. Tempe-ratura 5°C gacha pasaysa, idishda qancha suv hosil bo'ladi? (to'yingan bug'ning zichligi:

20°C da 17,3 g/m3, 5°C da 6,8 g/m3).

A) 13,6 mg B) 5,33mg C) 21 mg D) 10,6 mg

88. Difraksion panjaraga monoxromatik yorug'lik nuri tik tushmoqda. Panjaraning 1 mm da 100 ta shtrix bor. Ekrandagi birinchi tartibli ikkita maksimum orasidagi masofa 10 sm ga teng bo'ldi. Ekran bilan difraksiya panjarasi orasidagi masofa 1 m bo'lsa, yorug'likning to'lqin uzunligini (mkm) toping.

A) 1 B) 0,5 C) 0,46 D) 0,6

89. Bir atomli ideal gazning temperaturasi 10 K oshirilganda uning molekulalari o’rtacha kvad-ratik tezligi 100 m/s dan 150 m/s ga yetgan. Molekulalar tezligi 200 m/s dan 250 m/s gacha ortganda temperatura qanchaga ortadi?

A) 18,5 B) 18,7 C) 18,9 D) 18

90. Spini 0 ga teng bo’lgan zarralar …. deb ataladi.

A) … vector… B)… tenzor…

C) …skalyar… D) …spin-vektor…

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