**NASKAH SOAL TRY OUT GELOMBANG-2 KELAS XII TAHUN PELAJARAN 2016/2017**

Hari/Tanggal : Kamis/ 9 Februari 2017

Waktu : 16.30 – 18.00

Jurusan : Ilmu Alam

Bid. Studi : Bahasa Inggris, Biologi, Matematika

**Bahasa Inggris No. 1 - 20**

**The following text is for questions 1 to 3.**

A new species of wasp named *Megalara garuda* has been discovered in Sulawesi.

The wasp has an enormous body with pitch-black color. It is identified that the males have long, sickle-shape jaws. As wasps, these species belong to the digger wasp family. Due to its size, the species is categorised in a new genus called *Megalara*, meaning big wasps.

The females have a role to get prey for their offspring though precise insects for their prey have not been known. Female wasps paralyze their prey by stinging it.

1. What is the function of the text?
2. To persuade people to find *Megalara*’s prey
3. To describe *Megalara garuda* in general
4. To discuss the preservation of *Megalara*
5. To describe a specific *Megalara garuda*
6. To tell a story about *Megalara garuda*
7. “The wasp has an enormous body with pitch-black color.”

The underlined word is similar in meaning to . . .

1. small
2. wide
3. huge
4. tiny
5. fat
6. Based on the text, *Megalara* means . . .
7. wide termites
8. tame wasps
9. wild bees
10. large wasps
11. big insects

**The following announcement is for questions 4 and 5.**

On 28 October 2016 we are going to hold a flag-raising ceremony in the schoolyard to commemorate Youth Pledge Day. Students are instructed to wear complete uniform clothes. Please note this announcement and execute it well. Have a nice day.

1. What is the text about?
2. The Youth Day
3. The Youth Day ceremony
4. A flag-rasing ceremony
5. A flag-hoisting ceremony
6. A school announcement
7. What should students do?
8. Students must participate in the ceremony
9. Students must know about Youth Pledge Day
10. Students have to wear complete uniform at school
11. Students should pay attention to the announcement
12. Students have to wear uniform at the flag-rasing ceremony

**The following text is for qestions 6 to 8.**

Urbanization leads to disease epidemics around the world. This has increased the (6) . . . of *Aedes aegypti* through air. Urban areas also become good placed for mosquitoes to breed. Some areas in Jakarta, the capital of Indonesia always flood during rainy season. This situation encourages the growth of a great number of potential viruses in drums and tires, and (7) . . . of mosquitoes. It is testified that the crucial dengue fever occurence in Indonesia has started in the midtowns. Furthermore, experts reported that (8) . . . generally spread periodically. Hence, the citizens must anticipate the malady with good immunity.

1. . . .
2. transferred
3. immigrated
4. spread
5. removed
6. dislocated
7. . . .
8. larvae
9. diffusion
10. dissemination
11. spread
12. deployment
13. . . .
14. viruses
15. pestilence
16. germt
17. bacteria
18. visitation

**The following text is for questions 9 and 10.**

Victoria Caroline Beckham is an English singer-songwriter, dancer, model, actress, fashion designer and businesswoman. She was born on April 17, 1974, in Essex, England. She became famous in the 1990’s with the pop group “The Spice Girls” and was known as Posh Spice. In 1999, she married the Manchester united and England footballer, David Beckham. They have four children, three sons and a daughter.

After The Spice Girls split up, she pursued a solo singing career, but also started her own fashion range called dVb Style. Since this initial foray into fashion Victoria Beckham has brought out her own range of sunglasses and fragrance, entitled “Intimately Beckham” and a range of handbags and jewelry.

In addition she had written two best-selling books: one her autobiography and the other, a fashion guide.

1. What did Victoria do before being a solo singer?
2. Married to David Beckham
3. Worked as fashion designer
4. Joined The Spice Girls
5. Created fashion style
6. Wrote many books
7. “Since this initial foray into fashion Victoria Beckham . . . “ (paragraph 2)

The underlined word has the same meaning with . . .

1. attempt
2. experiment
3. step
4. visit
5. attack

**The following text is for Number 11-12.**

Once upon time, a man had a wonderful **parrot**. There was no other **parrot** like it. The **parrot** could say every word, except the name of the place where it was born, “Catano”.

The man felt excited having the smartest **parrot** but he could not understand why the **parrot** would not say “Catano”. The man tried to teach the bird to say “Catano” however the **parrot** kept not saying the word.

At the first, the man was very nice to the bird but then he got very angry. “You stupid bird!” pointed the man to the **parrot**. “Why can’t you say the word? Say Catano! Or I will kill you” the man said angrily. Although he tried hard to teach, the **parrot** would not say it. Then the man got so angry and shouted to the bird over and over; “Say Catano or I’ll kill you”. The bird kept not to say the word of Catano.

One day, after he had been trying so many times to make the bird say “Catano”, the man really got very angry. He could not bear it. He picked the **parrot** and threw it into the chicken house. There were four old chickens for next dinner “You are as stupid as the chickens. Just stay with them” Said the man angrily. Then he continued to humble; “You know, I will cut the chicken for my meal. Next it will be your turn, I will eat you too, stupid **parrot**”. After that he left the chicken house.

The next day, the man came back to the chicken house. He opened the door and was very surprised. He could not believe what he saw at the chicken house. There were three death chickens on the floor. At the moment, the **parrot** was standing proudly and screaming at the last old chicken; “Say Catano or I’ll kill you”.

1. Which [statement](http://www.nurdiono.com/explanation-about-question-tag.html) is [true](http://www.nurdiono.com/true-love-of-mother-and-son.html) according to the text?
2. The parrot [could](http://www.nurdiono.com/auxiliary-verb-modal-can-could.html) say Catano d. The man [never](http://www.nurdiono.com/wise-people-never-blame-someone.html) got angry at the parrot
3. The parrot could not say Catano e. The chickens killed the parrot
4. Catano was the name at the parrot
5. The following is the one that the man would not do to the parrot……….
6. Eat the parrot d. Put the parrot to the chickens’ house
7. Kill the parrot e. Spare the parrot
8. Teach the parrot

**The following text is for Number 13-16.**

One day, a farmer, who was well- known in his village as a very mean man, said “I will give three meals and twenty five pence to anyone who is willing to do a day’s work for me. This offer was accepted by a hungry tramp, who was more interested in the meals than the money. “ You can have your breakfast first”, said the farmer, “and then you can start work”. After the farmer had given him a very small breakfast, he said, “Now you can have your dinner. This will save us a lot of time.” The tramp agreed, and ate poor dinner. When he had finished, the farmer said, “What would you say to having supper also while you are about it?” “I will try”, replied the tramp, “to enjoy another meal”. Then he had his supper, which again was not a very filling meal. When it was over, the farmer looked very pleased and said, “Now you can do a long day’s work”. “No, thank you”, was the tramp’s reply, as he rose to leave, “I never work after supper!”

1. What is a ‘tramp’ according to the passage?  
   a. A person who works for a farmer d. A person who is interested in farming  
   b. A homeless person going from place to place e. One who needs a job  
   c. A very clever person
2. “While you are about it?” means closely to……….  
   a. while the tramp is working d. while the tramp is eating  
   b. when the tramp is at his farm e. when the tramp begins to work  
   c. if the tramp is still hungry
3. Which of these statements is TRUE according to the text?  
   a. The farmer was a generous man.  
   b. The tramp started to work after eating supper.  
   c. The tramp enjoyed the meal very much.  
   d. The tramp could eat three meals because none of them was big.  
   e. The farmer wanted to help the tramp.
4. From the text, we can learn that . . . ………….  
   a. The farmer was generous. d. The farmer was clever.  
   b. The meals were delicious. e. The supper made the tramp sleepy.  
   c. The tramp was cleverer than the farmer.
5. The tramp was willing to work for the farmer simply because ……………  
   a. He felt very hungry. d. The tramp needed the money.  
   b. He liked the job. e. The farmer was well known.  
   c. The farmer was a generous man.
6. I ... Accounting at campus at this time tomorrow.
7. Will be being studied d. Will have studied
8. Will be studying e. Will have been studying
9. Will study

1. By the end of this year, Mary ... in Jakarta for 4 years. She has no intention to get out of that extremely crowded city.
2. Will be staying d. Will teach
3. Will have been staying e. Has been staying
4. Will have stayed
5. The patient ............... before his family came.
6. Died d. Died
7. Had been dying e. Had died
8. Has died

**BIOLOGI 21 S.D. 35**

1. Dalam sistem pengelompokan tumbuhan ada beberapa macam cara tergantung dari macam  
   kelompoknya. Kelompok tumbuhan di bawah ini yang merupakan keanekaragaman tingkat  
   jenis dalam satu genus, adalah ........  
   A . Aren, kelapa, pinang  
   B . Lengkuas, jahe, kunir  
   C . Kacang tanah, kacang panjang, kacang hijau  
   D . Jeruk bali, jeruk nipis, jeruk peras  
   E . Bawang merah, bawang daun, bawang putih
2. Hasil pengamatan terhadap dua jenis jamur diperoleh data sebagai berikut.

|  |  |  |
| --- | --- | --- |
| Ciri yg diamati | Jamur A | Jamur B |
| Tubuh | Multiseluler | Multiseluler |
| Hifa | Bersepta | Bersepta |
| Tempat spora | Sporangium di ujung tangkai spora | Sporangium dalam tubuh buah |
| Reproduksi vegetatif | Spora | Konidiospora |
| Reproduksi generatif | Konjugasi hifa membentuk zygospora | Konjugasi hifa membentuk basidospora |

Berdasarkan data di atas, penyataan yang tepat adalah .......................

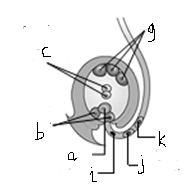
A. Jamur A = Zygomycotina, jamur B = Ascomycotina

B. Jamur A = Ascomycotina, jamur B = Basidiomycotina

C. Jamur A = Zygomycotina, jamur B = Basidiomycotina

D. Jamur A = Deuteromycotina, jamur B = Basidiomycotina

E. Jamur A = Basidiomycotina, jamur B = Zygomycotina

1. Perhatikan gambar berikut :

Gambar tersebut menunjukkan pembuahan ganda dari tumbuhan kelas Dicotyiledonae. Embrio yang terbentuk di dalam proses perkembangbiakan terjadi melalui peleburan antara nomor……

3

5

1. 1 dan 2 B.1 dan 6 C.1 dan 4 D.2 dan 4 E.3 dan 5

6

2

4

1

1. Berikut ini adalah fase-fase pada daur Fasciola Hepatica :

1.  Mirasidium 2.  Telur 3.  Sporokist 4.  Redia 5.  Cacing dewasa

6.  Serkaria 7.  Metaserkaria

Urutan fase-fase yang tepat adalah ...

A.    2-1-3-4-5-6-7 B.    2-1-4-7-6-3-5 C.    2-1-4-3-7-6-5

D.    2-1-3-4-6-7-5 E.    2-3-4-5-7-6-1

1. Dibawah ini tahapan pada pergiliran keturunan lumut:

(1)tumbuhan lumut (2)spora (3)protonema (4)sporogonium (5)zigot

Urutan yang benar daur hidup lumut

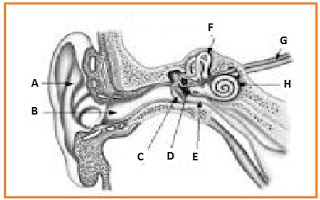
(A)3-2-4-1-5 (B)2-3-1-5-4 (C)5-2-3-4-1 (D)4-5-3-1-2 (E)1-3-5-4-2

1. Suatu jaringan tumbuhan yang diuji dengan larutan lugol mengalami perubahan warna biru kehiitaman. Kemungkinan jaringan tersebut adalah..
2. Jaringan pelindung B.Jaringan dasar C.Jaringan meristem
3. Jaringan sekretori E. Jaringan penyokong
4. Eritroblastosis fetalis dapat terjadi pada janin apabila...
5. Ibu Rh-anak Rh- B.Ibu Rh+ anak Rh-  C.Ibu Rh- anak Rh+
6. Anak Rh- bapak Rh- E.Ibu Rh- anak Rh- bapak Rh+
7. Otot jantung bekerja secara ritmik sehingga perlu mendapatkan oksigen dan zat-zat makanan. Pembuluh darah yang mengalirkan darah ke jantung dengan membawa oksigen dan zat makanan adalah...
8. Arteri pulmonalis C. Arteri koronaria E.Vena kava superior
9. Vena pulmonalis D. Vena hepatica
10. Berikut adalah hasil uji zat makanan terhadap jenis makanan.

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Reagen** | **Warna awal bahan** | **Warna akhir** |
| 1. | Lugol | Cokelat | Biru kehitaman |
| 2. | Benedict | Biru muda | Merah bata |
| 3. | Biuret | Biru muda | Ungu |

Berdasarkan data dalam tabel secara berurutan 1, 2 dan 3 dapat disimpulkan bahwa bahan makanan tersebut mengandung zat...

1. Protein, glukosa, amilum C. Amilum, glukosa, protein E.Amilum, protein, glukosa
2. Glukosa, amilum, protein D.Protein, amilum, glukosa
3. Pada gelembung terkecil dari suatu organ paru-paru terjadi perpindahan oksigen ke dalam darah. Kejadian ini dimungkinkan dengan adanya...
4. Proses osmosis oksigen ke dalam sel
5. Proses difusi oksigen ke dalam sel
6. Proses gutasi oksigen ke dalam darah
7. Tidak terjadi proses osmosis
8. Oksigen di paru-paru lebih sedikit dibandingkan oksigen dalam darah
9. Perhatikan gambar struktur telinga berikut ini !

[](http://3.bp.blogspot.com/-NKaMtlMtJ5Q/T3GYTzSL0aI/AAAAAAAAOAw/8Phv-KphytE/s1600/TELINGA+BUDEK.jpg)

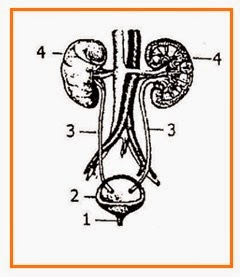
Bagian telinga manusia yang berfungsi sebagai alat meneruskan gelombang suara, menerima gelombang suara dan sebagai alat pendengar secara berurutan ditunjukkan oleh…. .

A. A, C dan D B. B, D dan E C. A, B dan C D.  D, C dan E E. B, D dan C

1. Berikut ini adalah organ-organ pada sistem reproduksi pria
2. Vas deferens 2. Testis 3. Uretra 4. Epididimis 5. Ureter

Pada saat ejakulasi akan dikeluarkan semen yang mengandung spermatozoa. jalannya spermatozoa dari mulai dibentuk sampai dikeluarkan akan melalui bagian-bagian …

1. 1 – 2 – 3 – 4 B. 1 – 4 – 2 – 5 C. 2 – 1 – 4 – 5 D. 2 – 4 – 1 – 3 E. 2 – 1 – 3 – 5
2. Perhatikan gambar sistem ekskresi di bawah ini!

[](https://2.bp.blogspot.com/-SQXJSP_Tp08/U3UzkJmDfBI/AAAAAAAAkKw/YaZuVBRM7WQ/s1600/REN+GINJAL.jpg)

Nama-nama organ tersebut yang diberi nomor 1, 2, 3, 4 secara berurutan adalah .....

A.  ureter, ginjal, kandung kemih, uretra

B.  ureter, kandung kemih, uretra, ginjal

C.  uretra, kandung kemih, ginjal, ureter

D.  ureter, ginjal, uretra, kandung kemih

E.   uretra, kandung kemih, ureter, ginjal

1. Berikut ini diagram siklus menstruasi!  
   FSH  
   ↓ → Folikel masak  
   Estrogen  
   ↓  
   LH → Ovulasi  
   ↓   
   Progesteron  
   ↓ →

Estrogen berkurang  
 Pembuatan paling tepat terjadi pada saat . . .  
A. Kadar estrogen rendah D. Ovulasi  
B. Kadar estrogen tinggi E. Menstruasi  
C. Folikel masak

1. Bayi akan memiliki kekebalan yang ditransfer dari ibunya melalui ASI. Imunisasi seperti ini dikategorikan sebagai . . . .

A. Imunisasi aktif D. Imunisasi aktif alami

B. Imunisasi pasif E. Imunisasi pasif alami

C. Imunisasi alami

**Matematika No. 36 - 50**

1. Jika maka nilai adalah….

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

1. Diketahui  maka nilai dari  adalah….

A. B. C D. E.

1. Persamaan grafik fungsi kwadrat yang memiliki titik puncak (2,0) dan melalui titik (0,4) adlah

A y = x2 – 4x + 4 B y = x2 + 4x + 4 C y = x2 – 4x + 16

D y = x2 – 4x + 8 E y = x2 + 4x + 8

1. Akar akar persaman kwadrat x2 – 5x +3 = 0 adalah α dan β ,nilai  =…..

A B. C. 1 D. E.

1. Nilai dari Cos 110o = …..

A. -1 B C. D. E.

1. Diketahui kubus ABCD.EFGH dengan panjang sisi 10 cm jarak titik C ke E adalah
2. 8 cm B. 8 C. D. 16 E. 4
3. Diketahui 10 titik yang tidak terletak segaris akan dibentuk segitiga, banyaknya segitiga yang terbentuk adalah …..

A. 200 B. 190 C. 100 D. 120 E. 80

1. Dari angka angka 2,3,4,5,6 akan disusun 3 angka harus lebih kecil dari 400, banyak susunan yang dapat terbentuk adalah….

A. 10 B. 20 C. 30 D. 40 E. 50

1. Diketahui data berat badan sebagai berikut;…

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Nilai (kg) | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 |
| frekuensi | 3 | 4 | 5 | k | 2 |

Jika nilai modus dari data diatas adalah 16,5 maka nilai k adalah…

1. 6 B. 7 C. 8 D. 9 E. 10
2. Sekelompok data memiliki rata-rata 8 dan jangkauan 6 karena kesalahan setiap nilai pada data dikurangi 2 lalu dibagi 2. Nilai rata-rata dan jangkauan menjadi…..
3. 3 dan 3 B. 3 dan 2 C. 2 dan 3 D. 8 dan 6 E. 8 dan 2
4. Diketahui (g o f)(x)= jika g(x)= 2x-4 maka fungsi f(x) =….
5. B. C. D. E.
6. Diketahui , dan f(x) = x – 1 maka rumus fungsi dari (fog)-1 =….
7. B. C. D. E.
8. Nilai dari =…..
9. B. C. 1 D. 2 E.4
10. Persamaan garis singgung kurva dititik berabsis 2 adalah…
11. Y = 8x – 4 B. Y = 8x – 3 C. Y = 8x –2 D. Y = 8x – 1 E. Y = 8x
12. Grafik fungsi naik pada interval….
13. -1<x<5 B. -5<x<1 C. x<1 atau x>5 D. x<-5 atau x>1 E. x<-1 atau x>5