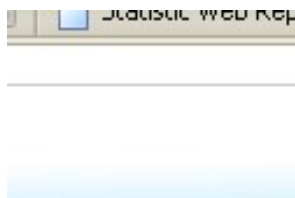


Nama (Name) : _____

UJIAN APTITUDE APEL

(Permohonan untuk kemasukan dalam program Ijazah Sarjana)



APEL APTITUDE TEST

(For application into Master programme)

(MQF LEVEL 7)

Masa: 2.5 jam

Time: 2.5 hours



Arahan kepada calon:

1. Sila pastikan kertas soalan ini mengandungi 25 muka surat bercetak sebelum anda mula menjawab soalan peperiksaan.
2. Kertas ini mengandungi DUA bahagian: Bahagian A (Soalan Aneka Pilihan – 75 markah) dan Bahagian B (Soalan Struktur – 25 markah).
3. Baca arahan dengan teliti pada kertas soalan dan jawab semua soalan di Bahagian A dalam kertas jawapan yang diberikan dan Bahagian B dalam kertas soalan ini.
4. Anda tidak dibenarkan membawa keluar kertas soalan ini dari bilik peperiksaan.

Instructions to candidates:

1. Please check that this test paper consists of 25 pages of printed material before you begin the test.
2. This paper consists of TWO parts: Part A (Multiple choice questions – 75 marks) and Part B (Structure questions – 25 marks).
3. Read the instructions carefully on the question paper and write all your answers for Part A in the answer sheet provided. For Part B, answer the questions in your question paper itself.
4. You are not allowed to remove this question paper from the examination venue.

PART A (75 marks – answer all the questions)

This part consists of 75 multiple choice questions in the following components:

- Language
 - o Bahasa Malaysia (13 questions)
 - o English Language (12 questions)
- Mathematics (25 questions)
- General knowledge (25 questions)

COMPONENT: BAHASA MALAYSIA (13 questions)

Jawab SEMUA soalan dengan melorekkan jawapan pada kertas jawapan aneka pilihan yang disediakan.

1. Pak Zul _____ lembu jantannya pada sebatang pokok di belakang rumahnya.
 - A. mengurung
 - B. menambat
 - C. mengikat
 - D. mengandang

2. Kereta yang dipandu laju itu gagal untuk dikawal lalu _____ ke dalam gaung.
 - A. terjunam
 - B. terhumban
 - C. terbabas
 - D. terhempas

3. Antara ayat berikut, yang manakah **bukan** ayat majmuk?
 - A. Sukan dapat memupuk sikap kerjasama dan taat setia kepada negara.
 - B. Pelajar hanya membaca dan menghafaz fakta-fakta penting untuk lulus peperiksaan.
 - C. Kita dapat berkomunikasi melalui Internet.
 - D. Sistem pendidikan yang berorintasikan peperiksaan telah melahirkan manusia yang tidak minat membaca.

4. Terdapat empat jenis ayat dalam bahasa Melayu, nyatakan jenis ayat di bawah.

- A. Samad Said merupakan tokoh sasterawan kami.
- Bencana tsunami mengorbankan ratusan ribu nyawa.

- A. Ayat perintah
- B. Ayat tanya
- C. Ayat penyata
- D. Ayat seruan

5. Antara yang berikut, manakah **bukan** kata pinjaman Bahasa Inggeris yang terserap dalam Bahasa Melayu?

- A. Idea
- B. Global
- C. Oksigen
- D. Tauhu

6. Antara berikut, yang manakah **bukan** rujukan kehormat bagi orang Islam yang meninggal dunia?

- A. Allahyarhamah
- B. Almarhum
- C. Allahyarham
- D. Mendiang

7. Hakim akan _____ hujah-hujah dalam setiap perbicaraan sebelum membuat keputusan.

- A. meneliti
- B. menyiasat
- C. menyelidik
- D. mengadili

8. Antara bentuk imbuhan berikut, manakah yang tidak terdapat dalam bahasa Melayu?

- A. Awalan
- B. Akhiran
- C. Apitan
- D. Diftong

9. "Hanya _____ yang boleh memujuk Syukri agar membatalkan hasratnya untuk berhijrah ke bandar," kata emaknya kepada kakak Syikin.
- A. kami
 - B. kamu
 - C. aku
 - D. beliau
10. Pihak polis telah _____ bilik hotel itu setelah mendapat maklumat tentang kegiatan pengedaran dadah di situ.
- A. menyerbu
 - B. menerpa
 - C. meluru
 - D. menyerang
11. Antara ayat berikut yang manakah menggunakan kata penguat hadapan?
- I. Pemandangan di tepi pantai pada waktu senja sungguh indah.
 - II. Kereta itu laju sangat.
 - III. Suhu di kawasan kutub sangat sejuk.
 - IV. Tanpa kebenaran Dekan, awak telah bercuti lama benar.
- A. I dan II
 - B. II dan III
 - C. I dan III
 - D. IV sahaja.
12. Di antara berikut, manakah ayat perintah?
- I. Cepat tutup tingkap.
 - II. Jangan berlari di sini.
 - III. Bangunan itu runtuh semalam.
 - IV. Kereta yang berhenti di tepi jalan itu kehabisan minyak.
- A. I dan II
 - B. I dan IV
 - C. II dan III
 - D. III dan IV

13. Antara berikut, yang manakah frasa yang tidak mengikut hukum D-M?
- A. Daging rendang
 - B. Kedai Buku Haris
 - C. Perkara-perkara lain
 - D. Sos tomato

COMPONENT: ENGLISH LANGUAGE (12 questions)

Answer ALL the questions by shading the correct answer in the MCQ answer sheet provided.

Reading Comprehension

Read the passage carefully and answer the questions that follow. For each question, select an answer from the options given.

For four hours, a mentally disturbed man holds an innocent boy at knifepoint. The police talk to him, calming him down until he is just about to free the child and surrender. But the watching crowd jeers and a voice shouts "Kill him!" Angered and panicked, the man stabs the boy and runs, only to be shot by the police.

This tragedy, the subject of much debate in Malaysia, took place a few years ago in the state of Johor. But it could have happened anywhere in the region. In most Asian cultures, people with mental illnesses are too often regarded as queer and embarrassing, if not downright dangerous. *Mental distress is not taken seriously because it is invisible.* Instead of providing help, society derides and ostracises the psychologically unwell. They end up isolated victims, prone to inflicting irrational violence upon themselves or others.

Making things worse have been rapid modernisation and the recent economic turmoil. Asian's habitual reserve obliges those stressed out by change to hide their problems and prevents those around them from intervening. Individuals are losing support they once received from extended families, stable communities and traditional values. Suicide rates are reportedly soaring in rural china because elderly people, once honoured as paragons, are now being *vilified* as economically useless.

What can we do? Education is one answer. Doctors and governments need to take the lead in explaining mental illness to the public. Sufferers should be better informed about where and how to seek help. Most important, people must be made to understand that the mentally distressed are suffering from identifiable and often treatable problems and deserve compassion and support. A commendable example is the television ads that the Hong Kong government runs, depicting how ex-mental patients can rejoin society.

The bigger change must be within each and every one of us. Mental illness is mysterious and scary. Sufferers have long been shut away. The Hong Kong ads were prompted in part by vehement and sometimes violent resistance by many neighbourhoods to hosting a mental health clinic or halfway house. Of course, the public has a right to be protected from the dangerously deranged. But *the vast majority* are peaceful and have a right to rehabilitation, like people recovering from any other illness.

Every society is grappling with the question of how best to treat the mentally ill. The answers are yet unclear so it is important so it is important to keep studying and debating. With realistic policies, modern treatments and community support, the mentally troubled can be helped In this highly stressful world, mental health should be everybody's concern.

1. *Mental distress is not taken seriously because it is invisible* (para.2.) This line means that mental health is not regarded as a serious problem because
 - A. mentally ill people do not look unwell.
 - B. mentally ill people cannot be seen.
 - C. mentally ill people are ostracised.
 - D. mentally ill people are hidden.

2. The following are reasons for mental ill-health among Asians **except**
 - A. Asia has modernised too fast.
 - B. Asians do not like to talk a lot.
 - C. Asians do not understand the problem.
 - D. Asians isolate themselves.

3. Which of the expressions below can be used to replace the word *vilified* in paragraph 3?
- A. praised
 - B. criticised
 - C. isolated
 - D. left out
4. Which of the statements below best sums up the information in paragraph 4?
- A. Doctors and governments must educate the mentally ill.
 - B. Education can help the mentally ill.
 - C. The mentally ill must be educated about their illness.
 - D. Society must be educated about mental illness.
5. It is the intention of the writer to
- A. warn people about mental illness.
 - B. make people aware of mental illness.
 - C. make people understand about mental illness.
 - D. help people with mental illness.

Grammar and Vocabulary

6. _____ of what he said was sensible.
- A. many
 - B. much
 - C. a few
 - D. every
7. The latest model of this car _____ in the showroom soon.
- A. is going to show
 - B. will be shown
 - C. was shown
 - D. has been shown
8. Mike has been told that he will need to pay the fine _____ his high rank in the military.
- A. even if
 - B. furthermore
 - C. on grounds that
 - D. despite

9. I wish you _____ making that noise. It's bothering me.
- A. would stop
 - B. are going to stop
 - C. stop
 - D. can stop
10. Eventually he _____ up the courage to ask for a pay rise.
- A. plucked
 - B. grabbed
 - C. grasped
 - D. snatched
11. It was such a funny sight that I couldn't keep a _____ face.
- A. plain
 - B. smooth
 - C. straight
 - D. level
12. The conversation ended _____ when she got angry and put down the phone.
- A. impulsively
 - B. briefly
 - C. shortly
 - D. abruptly

COMPONENT: MATHEMATICS (25 questions)

Answer ALL the questions by shading the correct answer in the MCQ answer sheet provided.

1. A function is given as $f(x) = 2x - 1$. Find $f^{-1}(x)$.
- A. $\frac{x+1}{2}$
 - B. $\frac{1-x}{2}$
 - C. $\frac{x-1}{2}$
 - D. $\frac{2-x}{2}$

2. James bought 200g of chicken meat at the delicatessen of RM1.94. As a rate this is equal to:
- A. RM1.94/kg
 - B. RM0.97/kg
 - C. RM9.7/kg
 - D. RM19.4/kg
3. The ratio 3 l (liter):45 ml (milliliter) can be fully simplified as _____.
- A. 3:45
 - B. 2:3
 - C. 20:3
 - D. 200:3
4. A fruit punch drink is to be made for a party. It consists of orange juice, pineapple juice and apple juice in the ratio 6:3:1. If we want to fill a 12 litre bucket with the punch, how much orange juice will be needed?
- A. 1.2 L
 - B. 12 L
 - C. 7.2 L
 - D. 3.6 L
5. Suppose that the value of the assets (in thousands of RM) of a company after t years is given by $V(t) = k - 80e^{-0.3t}$ (where k is a constant). Given that the initial value is 20. Find the value (in thousands of RM) after 10 years.
- A. 98.017
 - B. 97.017
 - C. 96.017
 - D. 95.017
6. A spherical balloon has a volume of 1000 cm^3 . It is then inflated so that the diameter of the balloon is doubled. The volume of the balloon will now be _____.
- A. 1000 cm^3
 - B. 2000 cm^3
 - C. 4000 cm^3
 - D. 8000 cm^3

7. The solution of the equation of $2^{3x} = 4^{x+1}$ is _____.

- A. $x = 3$
- B. $x = 2$
- C. $x = 4$
- D. $x = 5$

8. Which of the following sequence is not a term of 36?

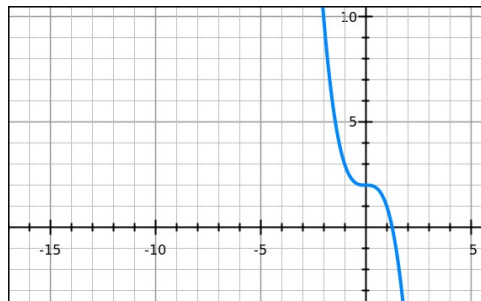
- A. $T_n = n^2$
- B. $T_n = 6n$
- C. $T_n = 6^n - 6n$
- D. $T_n = 4n^2$

9. Which of the following is the exact solution of $2x^2 + 3x - 5 = 0$?

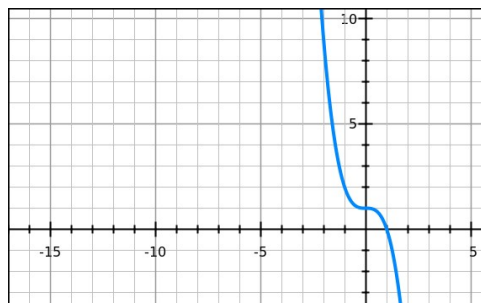
- A. $x = 1$ or $x = \frac{5}{2}$
- B. $x = 1$ or $x = -\frac{5}{2}$
- C. $x = -1$ or $x = -\frac{5}{2}$
- D. $x = -1$ or $x = \frac{5}{2}$

10. Which of the following could be the graph of $y = x^3 + 1$?

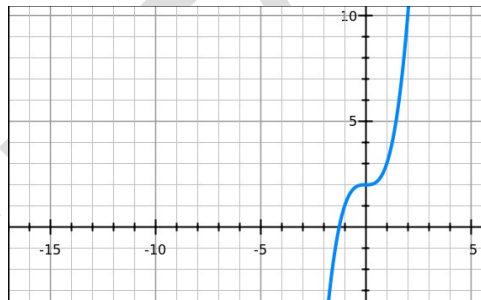
A.



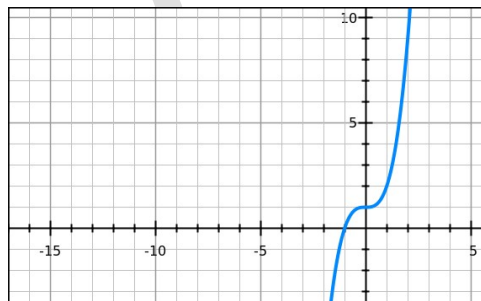
B.



C.



D.



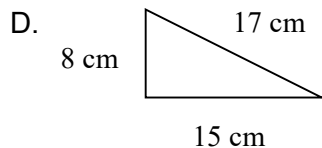
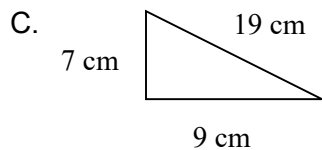
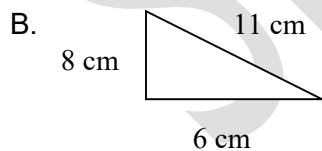
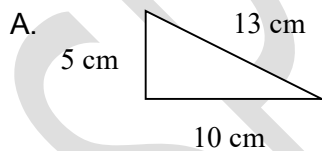
11. Solve the inequality of the following equation: $x^2 + 3x \geq 4$
- A. $x \leq 1$ or $x \geq 4$
 - B. $x \leq -4$ or $x \geq 1$
 - C. $-1 \leq x \leq 4$
 - D. $x \geq 4$ or $x \leq 1$
12. Given that $2A = \begin{bmatrix} -4 & 0 \\ 10 & 6 \end{bmatrix}$ and $-2B = \begin{bmatrix} 0 & -4 \\ -8 & 12 \end{bmatrix}$, then, $2A - 2B =$
- A. $\begin{bmatrix} -4 & 4 \\ 18 & -6 \end{bmatrix}$
 - B. $\begin{bmatrix} -4 & -4 \\ 2 & 18 \end{bmatrix}$
 - C. $\begin{bmatrix} -4 & 4 \\ 2 & 18 \end{bmatrix}$
 - D. $\begin{bmatrix} -4 & -4 \\ 2 & 12 \end{bmatrix}$
13. Find the accumulated amount after 3 years if RM1,000 is invested at 6% per year compounded monthly.
- A. RM1,191.02
 - B. RM1,194.05
 - C. RM1,196.68
 - D. RM1,197.20
14. Find the accumulated amount after 3 years if RM1,000 is invested at 6% per year compounded daily.
- A. RM1,191.02
 - B. RM1,194.05
 - C. RM1,196.68
 - D. RM1,197.20

15. A bank pays simple interest at the rate of 8% per year for certain deposits. If a customer deposits RM2,000 and makes no withdrawal for 4 years, what is the interest earned at the end of 4 years?
- A. RM540
 - B. RM640
 - C. RM740
 - D. RM840
16. Given the sequence, $a_n = 3n + 2$. Find the sum of the first 10 terms in the sequence.
- A. 185
 - B. 195
 - C. 205
 - D. 215
17. There are nine players in a Rugby forward pack. The mean mass of the players is 105kg. The total mass of the forward pack is _____.
- A. 950kg
 - B. 960kg
 - C. 955kg
 - D. 945kg
18. The simple interest paid on RM5,600 at 5.6% for 3 years is _____.
- A. RM940.80
 - B. RM994.46
 - C. RM6,540.80
 - D. RM65,94.47

19. Consider the frequency table below. How many students received a mark higher than 17?

Score	Frequency
15	12
16	15
17	10
18	6
19	3
20	2

- A. 3
B. 10
C. 11
D. 18
20. Which of the statement below is not correct?
- A. The value of $\tan \theta$ can never be greater than 1.
B. The value of $\sin \theta$ can never be greater than 1.
C. The value of $\cos \theta$ can never be greater than 1.
D. The value of $\operatorname{cosec} \theta$ can never be greater than 1.
21. Which of the triangle drawn below is a right angled triangle?



22. In a class of 25 students, there are 15 boys and 10 girls. If a student is chosen at random from the class, the probability that the student is a boy is _____.
- A. 10%
 - B. 15%
 - C. 40%
 - D. 60%
23. Postcodes in a country begin with either 1, 2, 3, 4, 5, 6, 7 or 8 followed by 2 more digits. How many of these postcodes can there be?
- A. 80
 - B. 8000
 - C. 800
 - D. 8
24. A die is cast. The probability that the number on the uppermost face is more than 3 is _____.
- A. $\frac{1}{6}$
 - B. $\frac{1}{3}$
 - C. $\frac{1}{2}$
 - D. $\frac{2}{3}$
25. The probability of rolling at least one six is $\frac{11}{36}$. What is the probability of the complementary event?
- A. $\frac{9}{36}$
 - B. $\frac{11}{36}$
 - C. $\frac{25}{36}$
 - D. 1

COMPONENT: GENERAL KNOWLEDGE / PENGETAHUAN AM (25 questions)

Answer ALL the questions by shading the correct answer in the MCQ answer sheet provided.

1. In Malaysia, external reporting of financial statements must comply with the financial reporting standards set by _____.
 - A. Bank Negara Malaysia (BNM)
 - B. Malaysian Institute of Accountants (MIA)
 - C. Malaysian Accounting Standards Board (MASB)
 - D. Securities Commission (SC)

2. During rusting, iron _____.
 - A. Gains weight
 - B. Loses weight
 - C. Neither losses nor gains weight
 - D. Sometimes gains, sometimes loses weight

3. The Tenth Malaysia Plan covers the period of _____.
 - A. Year 2008 – 2013
 - B. Year 2010 – 2015
 - C. Year 2009 – 2013
 - D. Year 2011 – 2015

4. What does APEC stands for _____.
 - A. Association of Petroleum Exporting Countries
 - B. Asia-Pacific Economic Cooperation
 - C. Asia-Pacific Economic Consortium
 - D. Association of Petroleum Export Cooperation

5. Which country won the Uber Cup in 2014?
 - A. Japan
 - B. Indonesia
 - C. China
 - D. Denmark

6. The first Test Tube baby Louise Joy Brown was born in 1978 in _____.
- A. England
 - B. United States of America
 - C. Canada
 - D. Australia
7. Which of the following countries have the same (identical) name for its currency?
- A. Zambia
 - B. Zaire
 - C. Zimbabwe
 - D. Yemen
8. According to the UN Convention on the Rights of the Child, which of the following is not a right?
- A. Safe drinking water
 - B. Adequate standard of living
 - C. Education
 - D. Employment
9. Sound travels fastest in _____.
- A. Air
 - B. Water
 - C. Vacuum
 - D. Iron
10. The ASEAN Secretariat is located in _____.
- A. Kuala Lumpur
 - B. Jakarta
 - C. Bangkok
 - D. Manila

Directions for questions 11-14: Consider the following information.

Exactly four young students are to attend a leadership workshop. The four are to be chosen from a group of seven students – three boys – Fatt, Gobind and Haslan and four girls – Jamilah, Kate, Mary and Nora. The four students are to be chosen according to the following conditions:

- i. If either Gobind or Haslan attends the workshop, the other must also attend.
- ii. Jamilah and Kate cannot both attend the workshop.
- iii. Gobind and Mary cannot both attend the workshop.

11. Which of the following could be the group attending the workshop?
- Fatt, Gobind, Haslan, Mary
 - Fatt, Gobind, Kate, Nora
 - Fatt, Kate, Mary, Nora
 - Gobind, Jamilah, Mary, Nora
12. If Fatt and Jamilah attend the workshop, which of the following pairs of students could be the others attending?
- Gobind and Nora
 - Haslan and Mary
 - Kate and Mary
 - Mary and Nora
13. If Haslan attends the workshop, which of the following student cannot attend?
- Mary
 - Nora
 - Fatt
 - Gobind
14. If two students of each sex attend the workshop, which of the following is one of the students who must attend?
- Fatt
 - Haslan
 - Jamilah
 - Kate
15. Ranjini and Gomathi are going shopping at Raja's bakery for their mother. They were told to buy 15 mini cheesesticks, 10 hamburger buns and 2 loaves of wheatmeal bread. How much will it cost them?

Raja's Bakery Sales

White Bread	: 2 for RM 1.25
Wheatmeal Bread	: 2 for RM 1.35
Mini Cheesesticks	: 6 for RM 1.00
Hamburger Buns	: 6 for RM 0.85
Hot dog Buns	: 6 for RM 0.69

- RM 6.27
- RM 5.57
- RM 5.27
- RM 6.57

16. Your task is to find the missing number in the pattern:

1, 12, 2, 10, ____, 8, 4, 6, 5, 4, 6, 2

- A. 9
- B. 7
- C. 5
- D. 3

Directions for questions 17-20: Consider the following information.

At a cooking school, the following six classes are named after each type of vegetables – Fennel, Garlic, Horseradish, Jicama, Kangkung and Lettuce. The classes are scheduled to meet for one demonstration each during an all day seminar. Each demonstration is 45 minutes long, and the only possible starting times for the class meeting are 9 a.m, 10 a.m, 11 a.m, 2 p.m and 4 p.m. The schedule of class meetings is to be established in accordance with the following conditions:

- i. Fennel cannot meet at the same time that Garlic meets
- ii. Horseradish must meet earlier in the day than Fennel
- iii. Jicama must meet in the afternoon
- iv. None of the other classes can meet at the time that Kangkung meets
- v. Lettuce can meet in the morning or in the afternoon

17. Any of the following could meet at 4 pm except _____.

- A. Fennel
- B. Garlic
- C. Horseradish
- D. Jicama

18. If Jicama meets some time before Kangkung meets, which of the following could be true?

- A. Fennel meets some time after Jicama meets.
- B. Garlic meets at 4 p.m.
- C. Kangkung meets at 2 p.m.
- D. Lettuce meets at 2 p.m.

19. If Fennel meets at 10 a.m and none of the classes meets at 4 p.m, which of the following must be true?

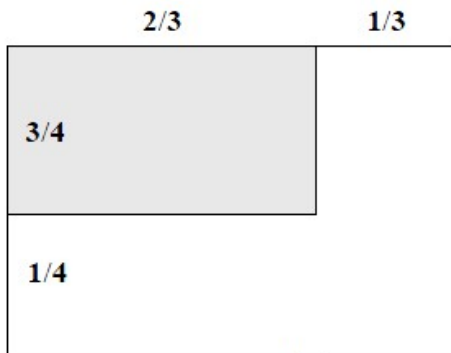
- A. Horseradish meets some time before Lettuce meets.
- B. Horseradish meets some time before Kangkung meets.
- C. Kangkung meets some time before Garlic meets.
- D. Lettuce meets at the same time that Garlic meets.

20. If Horseradish meets at 2 p.m, which of the following must be true?
- A. Kangkung meets in the morning.
 - B. Garlic meets at 2 p.m.
 - C. Garlic meets in the morning.
 - D. Jicama meets at 2 p.m.
21. The question has four words marked (1) to (4). If these words were rearranged in the alphabetical order as in a dictionary, what would be the correct sequence?
- (1) DOOR (2) DOMINION (3) DONATE (4) DOMINO
- A. 2431
 - B. 2134
 - C. 2341
 - D. 1234
22. Choose the missing word:
- 'Germs' is to 'Disease'.
'War' is to _____.
- A. Defeat
 - B. Army
 - C. Weapons
 - D. Destruction

Directions for questions 23-24: Unscramble the letters in the following words and find the odd one out.

23. The odd one is _____.
- A. SSYCIHP
 - B. MCRYHITES
 - C. SORTYIH
 - D. NOTBAY
24. The odd one is _____.
- A. HITWE
 - B. LLEOYW
 - C. ACLBK
 - D. TINGH

25. What fraction of the square is shaded?



- A. 30%
- B. 40%
- C. 50%
- D. 60%

PART B (25 marks – answer all the questions)

This part consists of five (5) structure questions. One question for each of the following components:

- Language
 - o Bahasa Malaysia (1 question)
 - o English Language (1 question)
- Mathematics (1 question)
- General knowledge (2 questions)

COMPONENT: BAHASA MALAYSIA (1 soalan – 5 markah)

Baca petikan di bawah ini dengan teliti, kemudian jawab soalan berikutnya.

(1) Keluarga Encik Tan bukanlah orang asing bagi penduduk-penduduk di Kampung Jeram. (2) Walaupun mereka merupakan satu-satunya keluarga bukan Melayu yang tinggal di situ, tetapi nenek moyang mereka adalah antara peneroka awal yang membuka kampung tersebut. (3) Sejak beberapa generasi, keluarga Encik Tan telah menjadi sebahagian daripada masyarakat Kampung Jeram. (4) Malah Encik Lim turut memegang jawatan penting dalam Jawatankuasa keselamatan Kampung (JKK). (5) Beliau amat dihormati dan disegani.

i. Tuliskan dua contoh kata ganti diri ketiga. (2 markah)

ii. Tulis satu contoh frasa sendi nama. (2 markah)

iii. Berikan satu contoh frasa adjektif. (1 markah)

COMPONENT: ENGLISH LANGUAGE (1 question – 5 marks)

Fill in the blanks with the most appropriate word.

'Overweight' is a polite term to use to tell a person that he is _____ (1). Being fat is _____ (2) from being heavy. A muscular gymnast may be of the same height and weight as his friend who gets very _____ (3) exercise. The gymnast is not fat but his friend may be. The shape and size of the skeleton also determine the _____ (4) of a person. A person with thick bones will weigh _____ (5) than one with thin bones. Both may be of the _____ (6) height. We can test whether we have too much fat by doing the 'pinch test'. This is done by _____ (7) your side at the waistline, getting as much fat as you possibly can between your thumb and fore-finger. If there is more than 2.5 cm of it, you are probably fat. When we eat too much and do not get _____ (8) exercise, the extra calories are stored as fat. Sometimes people overeat _____ (9) they are bored or lonely but often it is a case of not having the will power to _____ (10) food offered to them.

COMPONENT: MATHEMATICS (1 question – 5 marks)

A cylindrical can without a top is made to contain $V \text{ cm}^3$ of liquid. Find the dimensions that will minimize the cost of the metal to make the can.

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COMPONENT: GENERAL KNOWLEDGE / PENGETAHUAN AM (2 questions)

Question 1 (5 marks):

State any four (4) strategic challenges that Malaysia must overcome to achieve Vision 2020.

Question 2 (5 marks):

There are three prerequisites that must be satisfied when making a will in West Malaysia before it is considered valid. Explain these three prerequisites.

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End of question paper