English Test (80 minutes)
Name :

November 7th 2024

ATS

Correct answer : +3 Wrong answer : -1 No answer: 0

| I. | Grammar a | and | Vocabulary | : find | the | best | answer | for | each | question. |
|----|-----------|-----|------------|--------|-----|------|--------|-----|------|-----------|
| | | | | | | | | | | |

| 1. | Aisha a few minutes ago. a) ha | as left | b) leaves | c) left | d) is | s leaving | |
|-----|--|----------------------------|------------------------------|-------------------|----------------------------------|--------------------------|------------------|
| 2. | We to the chess club since we moved he | ere. | , | longed ed | , | nging | |
| 3. | The factory over there. a) are | b) used to | being | c) cou | ld used | d) use | ed to be |
| 4. | When he realised I him, he turned and ra | n away. | • | - | b) look like d) have be lo | ooking forv | vard to |
| 5. | When I went the bathroom, I saw that the | e bath had | overflowed | . a) for | b) in | c) at | d) into |
| 6. | Your eyes are red –? a) Did you cry | b) Have | you been o | crying c |) Are your cry | ing d) | Do you cry |
| 7. | 'I can't get access to the data base, they b) did probably put c) pi | in a new pa robably are | | | a) have prol d) probably | | n putting |
| 8. | Water at 100 °C, everyone knows that! | a) boilii | ng b) | bounce | c) boils | d) has bo | ounced |
| 9. | He one of his special desserts since your | birthday. | - | have made made | - | hasn't mad didn't mak | |
| 10. | Sam has never me the truth about his chi | ildhood. | a) told | b) said | c) mentioned | ı (b b | evealed |
| 11. | I Dr Evans next week. a) have seen | n b) an | n seeing | c) sees | d) will s | seen | |
| 12. | Is Michael a friend of? a) its | b) our | c) | yours | d) her | | |
| 13. | "The next train to Dublin at 3:45" (station a) will leaves b) is leaving | | nent) c) is going | leave | d) leave | :S | |
| 14. | When you Ben, tell him he still owes me s | ome mone | | is seeing see | b) will see d) are going | j to see | |
| 15. | Alex after his children on Wednesdays. | • | ly is looking usually loo | - | b) has looke d) usually lo | | |
| 16. | She is the scientist partner was awarded | a music aw | vard. a) | who b) | whose | c) which | d) that |
| 17. | There demonstrations since they annound | ced pensio | ns would fa | all by 2%. | a) are c) have bee | • | e being as |
| 18. | We forward to this holiday for ages. | a) are lo c) have | ooking been looki | ng | b) look d) have bee | en looked | |
| 19. | | obably is s as probably | • | |) have started) probably sta | | |
| 20. | They in 2015. a) married b) have m | narried d |) married e | ach other | d) have ma | arried to ea | ch other |
| 21. | The car is parked outside the house is he | er stepfathe | r's. a) v | who b) | whose c | e) Ø d) |) that |
| 22. | The idea was implemented by, not by | ! | a) he / sho | • | him parents / our relatives / | | |
| 23. | This should be the day we finally meet the | em. | a) when | b) whose | e c) whe | re d) | which |
| | Our parents in a car accident many years | | a) dead | • | ŕ | • | have dead |
| | your homework yet? a) Has you done | - | Did you do | • | you done | , | you done |
| | | / moved | b) did / | • | c) did / move | • | , nave / move |
| | I've lost my book, could you lend me? | a) your | , | you | c) our | d) us | |
| | · | b) turned | c) has t | - | d) is turning | , | |
| | I don't remember is why they refused to ta | • | • | | , | /hat c) | Ø d) Tha |

| 30. I have actually never met parents. | a) there b) then | n c) theirs | d) their | |
|---|---|------------------------------|-----------------------|------------------|
| 31. They when I entered the room. | a) were arguingc) have argued | b) had argue d) have been | arguing | |
| 32. We hope they will be here a) sho | ort b) shortly | c) in short | d) currently | , |
| 33. I was cooking while she the problem. | a) solves | b) has solve | d c) was fixii | ng d) had fix |
| 34. I can't hear what they a) will | say b) has said | c) sayed | d) are sayin | ıg |
| 35. I thought you in Chicago! a) wa | as b) have be | een c) ar | e d) were | |
| 36. It is the most ambitious proposal | a) we have evc) we submitted | er submitted ed yet | | |
| 37. My brother last month. a) is born | b) was born | c) born | d) has been borr | 1 |
| 38. Despite yesterday's snowfalls, we hom a) could not driven b) can describe by can be be a could not driven by can be can | | - | d) are not able | to be driving |
| 39. "How long have you lived in Belgium?" a) since b) for continuous | "l've lived here a o c) in d) penda | • | now." | |
| 40. He finally me about the accident but the acciden | hen we got interrupte c) is telling | d by the noise. d) told | | |
| 41. Could I speak Tom please? | a) Ø b) at | c) for | d) to | |
| • | c) will be d) will | have | | |
| 43. I her when we met at the harbour. | a) didn't recognizec) don't recognized | • | - | |
| 44. I haven't eaten fish and chips \dots I came | home last summer. | a) for b |) ago c) sinc | e d) during |
| 45. When I saw the stranger, I asked him why a) looks b) have look | • | • | d) had look | |
| 46. When you are at the butcher's, to get | a bone for the dog. | a) remember | b) recall c) rem | nind d) memorize |
| 47. Do you actually want in an engineering | g school? a) stud | y b) studi | ed c) studiir | ng d) to study |
| 48. When your first mobile phone? a) | you got b) you | had c) did y | ou get d) had | l you |
| 49. «Bags must be \dots at the desk», said the | notice in the art galle | ry. a) left | b) let c |) leave d) live |
| 50. In some places, pigs to find truffles. | a) is using | b) are used | c) use d) c | an be use |
| 51. They had to withdraw from the contest be a) passionate b) aston | | orbed | d) time-consumi | ng |
| 52. I'll agree with you'll say. a) wherever | er b) whenever | c) what | ever d) w | hoever |
| 53. It's all your fault, so just blame! | a) themselves b) | each other | c) yourself | d) one another |
| 54 July 20, 1969, astronauts Neil Armstro a) In / on b) On / in | • | | oon. d) On / on | |
| 55. Tom went to the premises and he visit | ted the new factory. | a) moreover | b) also c |) too d) as well |
| 56. Wars have claimed the lives of people | e. a) millions | b) millions of | c) million of | f d) million |
| 57. I've been racking my brain, but I think | of the French for "co | sy". a) shall | b) mustn't c) | should d) can't |
| 58. Everyone should push beyond comfor | rt zone. a) his | b) her | c) your | d) their |
| 59. They didn't understand about that film | n! a) everywhere | b) nowher | e c) somethi | ing d) anythin |
| 60. You live with Chris, you? a) don | 't b) does | c) can | d) aren't | |
| 61. I had such a headache yesterday that I | complete my task. | a) could | b) can c) c | an't d) couldni |
| 62. Suzy decided to have a go, she didn't | regret afterwards. | a) what | o) whom c) | when d) which |
| 63. The town in I grew up is very small. | a) where | b) that | c) which | d) Ø |

------ THERE ARE NO QUESTIONS 64 TO 100 ------

II. Reading comprehension: read the texts and choose the answer that best corresponds to the text.

Text 1 Robot jurisprudence: How to judge a 'bot____

WHEN the autonomous cars in Isaac Asimov's 1953 short story "Sally" encourage a robotic bus to dole out some rough justice to an unscrupulous businessman, it appears that the bus has contravened Asimov's first law of robotics, which states that "a robot may not injure a human being or, through inaction, allow a human being to come to harm".

Asimov's three laws are merely a bit of science fiction that is often taken to be a serious basis for robot governance. But robotic devices raise many thorny legal, ethical and regulatory questions. For instance, if an autonomous car is involved in an accident, who is to blame? And bionic technologies that enhance or become part of humans are trickier still. If an assistive exoskeleton is implicated in a death, who is at fault? If a brain-computer interface is used to communicate with someone in a vegetative state, are those messages legally binding?

It was questions such as these that led to the setting up in 2012 of a project called RoboLaw, largely funded by the European Union. Consisting of experts in areas such as law, engineering, philosophy, regulation and medicine, the group presented their report, called "Guidelines on Regulating Robotics", to a special session of the European Parliament in September. The report's recommendations are designed to help legislators successfully manage the introduction of new robotic and human-enhancement technologies into society without compromising principles already enshrined in European law.

The report's authors warn against "excessively restrictive" legislation that can stifle innovation. They recommend a "functional perspective" that concentrates on the practical use of robotics when drawing up any robot-specific laws. Broad, overarching legislation—such as Asimov's three laws—is likely to fail, says Andrea Bertolini, of the Scuola Superiore Sant'Anna, in Pisa, Italy, which led the RoboLaw group. Instead, ad hoc legislation could be used to steer the development of the market in specific directions. That is an important suggestion when the term "robot" covers such a diversity of devices, from medical equipment to drones and vacuum cleaners.

Stringent product-safety rules, for example, might discourage the development of advanced prostheses and exoskeletons, a set of technologies that the European Union is keen to support. Liability exemptions for manufacturers could relieve some pressure. "No-fault" plans, especially in cases where an insurance market for robotic devices is difficult to establish, could help too. Manufacturers and governments might pay into a compensation fund to be used if mishaps occur.

Prostheses also raise questions about the legal distinction between person and property, but the report suggests that there is no advantage to creating a new category between human and machine. As Dr Bertolini puts it: "A human with a prosthesis is still a human."

Dec 6th 2014

| | · | |
|------|---|--|
| 101- | | o) A robot might not injure a human being d) A robot may injure a human being |
| 102- | - In "Asimov's three laws are merely a bit of science-fiction", w a) merrily b) simply c) seriously d | - |
| 103- | Where are the answers given to questions raised by robotic a a) In Isaac Asimov's 3 laws b) In a report | |
| 104- | - In the phrase "trickier still" in paragraph 2, which is closest in a) more magical b) quieter c) more n | _ |
| 105- | c) The group cons | a project mainly funded by the E.U. seep the principles of European Law sisted of experts in engineering, medicine and language sented their report to the Parliament |
| 106- | - What does the group advocate for? a) legislation that is to c) large legislation | oo restrictive b) studying the way robots are used d) specific legislation to cover all kinds of robotic devices |
| 107- | '- What would the E.U. like to do above all? a) issue product-s c) avoid new robo | b) develop advanced prostheses tic technologies d) stifle innovation |
| 108- | b) exemptions for manufacturers c) "no-fac | |

Concentrating for long periods builds up chemicals that disrupt brain functioning.

A workday filled with a string of mentally demanding tasks can leave you feeling <u>drained</u>. After long hours of mentally tracking one thought to the next, you're probably more likely to choose a relaxing evening of streaming TV shows than <u>to tackle a tough task</u> on your to-do list or to make time on a creative pursuit. A new study provides a biological explanation for this familiar phenomenon: thinking hard leads to a buildup of chemicals that may disrupt the functioning of the brain.

For some time, scientists have struggled to find an explanation for why our mental resources **get depleted**. Researchers have hypothesized that long periods of **strenuous mental effort** lead to a depletion of glucose and other key resources that supply the energy-hungry brain. Early experiments in the 2000s supported this notion—reporting that people experienced a reduction in blood glucose after a cognitively demanding task and that consuming a sugar drink could boost performance. **But subsequent work failed to reproduce those findings**. "If you look at all of the studies together, there has been, on average, no effect," says Antonius Wiehler, a cognitive neuroscientist at Pitie-Salpetriere Hospital in France.

In a previous study published in 2016, Wiehler's Pitie-Salpetriere colleague Mathias Pessiglione and his team demonstrated that long periods of mentally effortful tasks made people more likely to choose immediate gratification over waiting for a bigger reward much later (\$40 now versus \$50 in two weeks, for example). This behavioral change was accompanied by a decrease in brain activity in the lateral prefrontal cortex (LPFC), an area involved in cognitive processes such as decision-making. The result left the team with the question of what was causing this change in brain activity.

To probe that question further in the new study, published in *Current Biology* on August 11, Pessiglione, Wiehler and their colleagues recruited 40 volunteers to follow up on the earlier work. Participants had to spend around six and a half hours at the lab—the approximate equivalent of a full workday—performing repetitive but mentally challenging tasks. Among them was the "N-back" task, which asked individuals to recall a letter that appeared on a screen "N" number of trials before. <u>The subjects were split into two groups</u>: one was assigned a difficult version of these tasks, while the other was given a simpler version. Although both groups reported feeling similar levels of exhaustion after the daylong experiment, only <u>those who had been given the harder task were more likely to choose</u> to take home an immediate reward rather than wait for a larger cash-out at a later date.

To determine what was going on, the team used magnetic resonance spectroscopy, a form of magnetic resonance imaging that enables researchers to detect levels of certain chemicals in the brain. The investigators found that people who had higher concentrations of the neurotransmitter glutamate in the LPFC than those who had performed the easier one. They also found an increased level of glutamate diffusion in the difficult group, indicating that the molecules were moving faster—which, according to Wiehler, suggests the chemical was building up outside cells, where its movement was less constrained.

Aug. 11th 2022, in *Scientific American*

109- In "a string of mentally demanding tasks can leave you feeling drained", "drained" means that it can make you feel:

a) energetic

b) efficient

c) depressed

d) exhausted

110- "to tackle a tough task" means:

a) to engage in a tough task

b) to give up on a tough task

c) to think of a tough task

d) to disapprove of a tough task

| 111- In "why our mental resource a) wear out b) b | es get depleted", " get depl e uild up c) multiply | eted" means that the resourc d) strenghten | es tend to: |
|--|--|---|------------------|
| 112- In "strenuous mental effort" a) stressful b) ir | , " <u>strenuous</u> " is synonymo ntense c) discontinue | | |
| a) 311 0331 di | iterise of discontinue | od dyntae | |
| 113- "But subsequent work fa | led to reproduce those fir | ndings" means: | |
| a) there was no further p | proof of the findings | | |
| b) no experiments were | carried out that showed rec | luction in blood glucose | |
| c) the experiment was n | ever reproduced | | |
| d) the scientists quickly | gave up on these experime | nts | |
| 114- "To probe that question f | urther in the new study" me | eans: | |
| a) to get rid of that ques | , | focus on that question | |
| c) to go deeper into that | question d) to | evade that question | |
| 115- "The subjects were split in | i to two groups " means tha | t the subjects: | |
| a) were divided into two | • , , | onted with other groups | |
| c) fell over two groups | d) were oppo | sed to two groups | |
| 116- "those who had been giv | en the harder task were m | ore likely to choose" mea | ins: |
| a) those who had been | given the harder task would | probably choose | |
| b) those who had been | given the harder task would | never choose | |
| c) those who had been | given the harder task were r | not allowed to choose | |
| d) those who had been | given the harder task couldr | n't possibly choose | |
| 117- "who had undertaken the | harder task" means: | | |
| a) who had finished | b) who had given up | c) who had carried out | d) who had ignor |
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