

2022 年全国硕士研究生入学统一考试英语（二）试题

Section I Use of English

Directions:

Read the following text. Choose the best word(s) for each numbered blank and mark A, B, C or D on the ANSWER SHEET. (10 points)

Harlan Coben believes that if you're a writer, you'll find the time; and that if you can't find the time, then writing isn't a priority and you're not a writer. For him, writing is 1 job—a job like any other. He has 2 it with plumbing, pointing out that a plumber doesn't wake up and say that he can't work with pipes today.

3, like most writers these days, you're holding down a job to pay the bills, it's not 4 to find the time to write. But it's not impossible. It requires determination and single-mindedness. 5 that most bestselling authors began writing when they were doing other things to earn a living. And today, even writers who are fairly 6 often have to do other work to 7 their writing income.

As Harlan Coben has suggested, it's a 8 of priorities. To make writing a priority, you'll have to 9 some of your day-to-day activities and some things you really enjoy. Depending on your 10 and your lifestyle, that might mean spending less time watching television or listening to music, though some people can write 11 they listen to music. You might have to 12 the amount of exercise or sport you do. You'll have to make social media an 13 activity rather than a daily, time-consuming 14. There'll probably have to be less socializing with your friends and less time with your family. It's a 15 learning curve, and it won't always make you popular.

There's just one thing you should try to keep at least some time for, 16 your writing—and that's reading. Any writer needs to read as much and as widely as they can; it's the one 17 supporter—something you can't do without.

Time is finite, the older you get, the 18 it seems to go. We need to use it as carefully and as 19 as we can. That means prioritizing out activities so that we spend most time on the things we really want to do. If you are a writer, that means—20—writing.

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|-------------------|------------------|-------------------|-----------------|
| 1. [A] difficult | [B] normal | [C] steady | [D] pleasant |
| 2. [A] combined | [B] compared | [C] confused | [D] confronted |
| 3. [A] If | [B] Through | [C] Once | [D] Unless |
| 4. [A] enough | [B] strange | [C] wrong | [D] easy |
| 5. [A] Accept | [B] Explain | [C] Remember | [D] Suppose |
| 6. [A] well-known | [B] well-advised | [C] well-informed | [D] well-chosen |
| 7. [A] donate | [B] generate | [C] supplement | [D] calculate |
| 8. [A] cause | [B] purpose | [C] question | [D] condition |
| 9. [A] highlight | [B] sacrifice | [C] continue | [D] explore |
| 10. [A] relations | [B] interests | [C] memories | [D] skills |
| 11. [A] until | [B] because | [C] while | [D] before |

- | | | | |
|----------------------|------------------|--------------------|--------------------|
| 12.[A] put up with | [B] make up for | [C] hang on to | [D] cut down on |
| 13.[A] intelligent | [B] occasional | [C] intensive | [D] emotional |
| 14.[A] habit | [B] test | [C] decision | [D] plan |
| 15.[A] tough | [B] gentle | [C] rapid | [D] funny |
| 16. [A] in place of | [B] in charge of | [C] in response to | [D] in addition to |
| 17.[A] indispensable | [B] innovative | [C] invisible | [D] instant |
| 18.[A] duller | [B] harder | [C] quieter | [D] quicker |
| 19.[A] peacefully | [B] generously | [C] productively | [D] gratefully |
| 20.[A] at most | [B] in turn | [C] on average | [D] above all |

Section II Reading Comprehension

Part A

Directions: Read the following four texts. Answer the questions below each text by choosing A, B, C or D. Mark your answers on the ANSWER SHEET. (40 points)

TEXT1

On a recent sunny day, 13,000 chickens roam over Larry Brown’s 40 windswept acres in Shiner, Texas. Some rest in the shade of a parked car. Others drink water with the cows. This all seems random, but it’s by design, part of what the \$6.1 billion U.S. egg industry bets will be its next big thing: climate-friendly eggs.

These eggs, which are making their debut now on shelves for as much as \$8 a dozen, are still labeled organic and animal-friendly, but they’re also from birds that live on farms using regenerative agriculture-special techniques to cultivate rich soils that can trap greenhouse gases. Such eggs could be marketed as helping to fight climate change.

“I’m excited about our progress,” says Brown, who harvests eggs for Denver-based NestFresh Eggs and is adding more cover crops that draw worms and crickets for the chickens to eat. The birds’ waste then fertilizes fields. Such improvements “allow our hens to forage for higher-quality natural feed that will be good for the land, the hens, and the eggs that we supply to our customers.”

The egg industry’s push is the first major test of whether animal products from regenerative farms can become the next premium offering. In barely more than a decade, organic eggs went from being dismissed as a niche product in natural foods stores to being sold at Walmart. More recently there were similar doubts about probiotics and plant-based meats, but both have exploded into major supermarket categories. If the sustainable-egg rollout is successful, it could open the floodgates for regenerative beef, broccoli, and beyond.

Regenerative products could be a hard sell, because the concept is tough to define quickly, says Julie Stanton, associate professor of agricultural economics at Pennsylvania State University Brandywine. Such farming also brings minimal, if any, improvement to the food products (though some producers say their eggs have more protein).

The industry is betting that the same consumers paying more for premium attributes such as free-range, non-GMO, and pasture-raised eggs will embrace sustainability. Surveys show that younger generations are more

concerned about climate change, and some of the success of plant-based meat can be chalked up to shoppers wanting to signal their desire to protect the environment. Young adults “really care about the planet,” says John Brunnquell, president of Egg Innovations. “They are absolutely altering the food chain beyond what I think even they understand what they’re doing.”

21. The climate-friendly eggs are produced _____.

- [A] at a considerably low cost
- [B] at the demand of regular shoppers
- [C] as a replacement for organic eggs
- [D] on specially designed farms

22. Larry Brown is excited about his progress in _____.

- [A] reducing the damage of worms
- [B] accelerating the disposal of uses
- [C] creating a sustainable system.
- [D] attracting customers to his products

23. The example of organic eggs is used in the paragraph 4 to suggest _____.

- [A] the doubts to over natural feeds
- [B] the setbacks in the eggs industry
- [C] the potential of regenerative products
- [D] the promotional success of super markets

24. It can be learned from the last paragraph that young people _____.

- [A] are reluctant to change their diet
- [B] are likely to buy climate-friendly eggs
- [C] are curious about new food
- [D] are amazed at agricultural advances

25. John Brunnquell would disagree with Julie Stanton over regenerative products' _____.

- [A] markets prospects
- [B] standard definition
- [C] market prospect
- [D] moral implication

TEXT 2

More Americans are opting to work well into the retirement, a growing trend that threatens to upend the old workforce model.

One in three Americans who are at least 40 have or plan to have a job in retirement to prepare for a longer life, according to a survey conducted by Harris Poll for TD Ameritrade. Even more surprising is that more than half of unretirees—those who plan to work in retirement or went back to work after retiring—said they would be employed in their later years even if they had enough money to settle down, the survey showed.

Financial needs aren't the only culprit for the “unretirement” trend. Other reasons, according to the study,

include personal fulfillment such as staying mentally fit, preventing boredom or avoiding depression. About 72% of “unretire” respondents said that they would return to work once retired to keep mentally fit while 59% said it would be tied to making ends meet. Can Congress save the economy? Fed chair says “US debt is ‘on unsustainable path’”. Auto industry is still a boys’ club at the top despite GM CEO Mary Barrasuccess.

“The concept of retirement is evolving,” said Christine Russell senior manager of retirement at TD Ameritrade. “It’s not just about finances. The value of work is also driving folks to continue working past retirement.”

One reason for the change in retirement patterns: Americans are living longer. The share of the population 65 and older was 16% in 2018, up 3.2% from the prior year, according to the U.S. Census Bureau. That’s also up 30.2% since 2010. Older Americans are also the fastest-growing segment of the U.S workforce, and boomers are expected to live longer than previous generations. The percentage of retirement-age people in the labor force has doubled over the past three decades. About 20% of people 65 and older were in the workforce in February, up from an all-time low of 10% in January 1985, according to money manager United Income.

Because of longer life spans, Americans are also boosting their savings to preserve their nest eggs, the TD Ameritrade study showed which surveyed 2,000 adults between 40 to 79. Six in 10 “unretires” are increasing their savings in anticipation of a longer life, according to the survey. Among the most popular ways they are doing this, the company said, is by reducing their overall expenses, securing life insurance or maximizing their contributions to retirement accounts. Seniors are living longer, but planning for the extended years is key.

Unfortunately, many people who are opting to work in retirement are preparing to do so because they are worried about making ends meet in their later years, said Brent Weiss, a co-founder at Baltimore-based financial-planning firm Facet Wealth. He suggested that preretiree should speak with a financial adviser to set long-term financial goals.

“The most challenging moments in life are getting married, starting a family and ultimately retiring.” Weiss said. “It’s not just a financial decision, but an emotional one. Many people believe they can’t retire. ”

26. The survey conducted by Harris Poll indicates that_____.

- [A]over half of the retirees are physically fit for work
- [B]the old workforce is as active as the younger one
- [C]one in three Americans enjoy earlier retirement
- [D]more Americans are willing to work in retirement

27.It can be inferred from Paragraph 3 that Americans tend to think that_____.

- [A]retirement may cause problems for them
- [B]boredom can be relieved after retirement
- [C]the mental health of retirees is overlooked
- [D]“unretirement”contributes to the economy

28.Retirement patterns are changing partly due to_____.

- [A]labor shortage
- [B]population growth
- [C]longer life expectancy
- [D]rising living costs

29. Many retirees are increasing their savings by _____.

[A] investing more in stocks

[B] taking up odd jobs

[C] getting well-paid work

[D] spending less

30. With regard to retirement, Brent Weiss thinks that many people are _____.

[A] unprepared

[B] unafraid

[C] disappointed

[D] enthusiastic

TEXT 3

We have all encountered them, in both our personal and professional lives. Think about the times you felt tricked or frustrated by a membership or subscription that had a seamless sign-up process but was later difficult to cancel. Something that should be simple and transparent can be complicated, intentionally or unintentionally, in ways that impair consumer choice. These are examples of dark patterns.

First coined in 2010 by user experience expert Harry Brignull, "dark patterns" is a catch-all term for practices that manipulate user interfaces to influence the decision-making ability of users. Brignull identifies 12 types of common dark patterns, ranging from misdirection and hidden costs to "roach motel" where a user experience seems easy and intuitive at the start, but turns difficult when the user tries to get out.

In a 2019 study of 53,000 product pages and 11,000 websites, researchers found that about one in 10 employs these design practices. Though widely prevalent, the concept of dark patterns is still not well understood. Business and nonprofit leaders should be aware of dark patterns and try to avoid the gray areas they engender.

Where is the line between ethical, persuasive design and dark patterns? Businesses should engage in conversations with IT, compliance, risk, and legal teams to review their privacy, and include in the discussion the customer/ user experience designers and coders responsible for the company's user interface, as well as the marketers and advertisers responsible for sign-ups, checkout baskets pricing, and promotions. Any or all these teams can play a role in creating or avoiding "digital deception."

Lawmakers and regulators are slowly starting to address the ambiguity around dark patterns, most recently at the state level. In March, the California Attorney General announced the approval of additional regulations under the California Consumer Privacy Act (CCPA) that "ensure that consumers will not be confused or misled when seeking to exercise their data privacy rights." The regulations aim to ban dark patterns — this means prohibiting companies from using "confusing language or unnecessary steps such as forcing them to click through multiple screens or listen to reasons why they shouldn't opt out."

As more states consider promulgating additional regulations, there is a need for greater accountability from within the business community. Dark patterns also can be addressed on a self-regulatory basis, but only if organizations hold themselves accountable, not just to legal requirements but also to industry best practices and standards.

31. It can be learned from the first two paragraphs that dark patterns _____.

- [A]improve user experiences
 - [B] leak user information for profit
 - [C]undermine users' decision-making
 - [D]remind users of hidden costs
- 32.The 2019 study on dark patterns is mentioned to show_____
- [A] their major flaws
 - [B] their complex designs
 - [C] their severe damage
 - [D] their strong presence
- 33.To handle digital deception, businesses should_____
- [A]listen to customer feedback
 - [B]talk with relevant teams
 - [C]turn to independent agencies
 - [D]rely on professional training
- 34.The additional regulations under the CCPA are intended to_____
- [A]guide users through opt-out processes
 - [B]protect consumers from being tricked
 - [C] grant companies data privacy rights
 - [D]restrict access to problematic content
- 35.According to the last paragraph, a key to coping with dark patterns is_____
- [A]new legal requirements
 - [B]businesses' self-discipline
 - [C]strict regulatory standards
 - [D]consumers safety awareness

Text 4

Although ethics classes are common around the world, scientists are unsure if their lessons can actually change behavior; evidence either way is weak, relying on contrived laboratory tests or sometimes unreliable self-reports. But a new study published in *Cognition* found that, in at least one real-world situation, a single ethics lesson may have had lasting effects.

The researchers investigated one class session's impact on eating meat. They chose this particular behavior for three reasons, according to study co-author Eric Schwitzgebel, a philosopher at the University of California, Riverside: students' attitudes on the topic are variable and unstable, behavior is easily measurable, and ethics literature largely agrees that eating less meat is good because it reduces environmental harm and animal suffering. Half of the students in four large philosophy classes read an article on the ethics of factory-farmed meat, optionally watched an 11-minute video on the topic and joined a 50-minute discussion. The other half focused on charitable giving instead. Then, unknown to the students, the researchers studied their anonymized meal-card purchases for that semester-nearly 14,000 receipts for almost 500 students.

Schwitzgebel predicted the intervention would have no effect; he had previously found that ethics Professors

do not differ from other professors on a range of behaviors, including voting rates, blood donation and returning library books. But among student subjects who discussed meat ethics, meal purchases containing meat decreased from 52 to 45 percent -and this effect held steady for the study's duration of several weeks. Purchases from the other group remained at 52 percent.

“That’s actually a pretty large effect for a pretty small intervention,” Schwitzgebel says. Psychologist Nina Strohminger at the University of Pennsylvania, who was not involved in the study, says she wants the effect to be real but cannot rule out some unknown confounding variable. And if real, she notes, it might be reversible by another nudge: “Easy come, easy go.”

Schwitzgebel suspects the greatest impact came from social influence—classmates or teaching assistants leading the discussions may have shared their own vegetarianism, showing it as achievable or more common. Second, the video may have had an emotional impact. Least rousing, he thinks, was rational argument, although his co-authors say reason might play a bigger role. Now the researchers are probing the specific effects of teaching style, teaching assistants’ eating habits and students’ video exposure. Meanwhile, Schwitzgebel—who had predicted no effect—will be eating his words.

36. Scientists generally believe that the effects of ethics classes are

- [A] hard to determine
- [B] narrowly interpreted
- [C] difficult to ignore
- [D] poorly summarized

37. Which of the following is a reason for the researchers to study meat eating?

- [A] It is common among students.
- [B] It is a behavior easy to measure.
- [C] It is important to students’ health
- [D] It is a hot topic in ethics classes.

38. Eric Schwitzgebel’s previous findings suggest that ethics professors

- [A] are seldom critical of their students
- [B] are less sociable than other professors
- [C] are not sensitive to political issues
- [D] are not necessarily ethically better

39. Nina Strohminger thinks that the effect of the intervention is

- [A] permanent
- [B] predictable
- [C] uncertain
- [D] unrepeatable

40. Eric Schwitzgebel suspects that the students’ change in behavior

- [A] can bring psychological benefits
- [B] can be analyzed statistically
- [C] is a result of multiple factors
- [D] is a sign of self-development

Part B

Directions:

Read the following text and answer the questions by choosing the most suitable subtitles from the list A-G for each numbered paragraph (41-45). There are two extra subtitles which you do not need to use. Make your answers on the ANSWER SHEET. (10 points)

- [A] Make it a habit
- [B] Don't go it alone
- [C] Start low, go slow
- [D] Talk with your doctor
- [E] Listen to your body
- [F] Go through the motions
- [G] Round out your routine

How to get active again?

Getting back into exercise can be a challenge in the best of times, but with gyms and in-person exercise classes off-limits to many people these days, it can be tricky to know where to start. And it's important to get the right dose of activity. "Too much too soon either results in injury or burnout," says Mary Yoke, PhD, a faculty member in the kinesiology department at Indiana University in Bloomington. The following simple strategies will help you return to exercise safely after a break.

41. _____

Don't try to go back to what you were doing before your break. If you were walking 3 miles a day, playing 18 holes of golf three times a week, or lifting 10-pound dumbbells for three sets of 10 reps, reduce activity to ½ mile every other day, or nine holes of golf once a week with short walks on other days, or use 5-pound dumbbells for one set of 10 reps. Increase time, distance, and intensity gradually. "This isn't something you can do overnight," say Keri L. Denay, MD, lead author of a recent American College of Sports Medicine advisory that encourages Americans to not overlook the benefits of activity during the pandemic. But you'll reap benefits such as less anxiety and improved sleep right away.

42. _____

If you're breathing too hard to talk in complete sentences, back off. If you feel good, go a little longer or faster. Feeling wiped out after a session? Go easier next time. And stay alert to serious symptoms, such as chest pain or pressure, severe shortness of breath or dizziness, or faintness, and seek medical attention immediately.

43. _____

Consistency is the key to getting stronger and building endurance and stamina. Ten minutes of activity per day is a good start, says Marcus Jackovitz, DPT, a physical therapist at the University of Miami Hospital. All the experts we spoke with highly recommend walking because it's the easiest, most accessible form of exercise. Although it can be a workout on its own, if your goal is to get back to Zumba classes, tennis, cycling, or any other activity, walking is also a great first step.

44. _____

Even if you can't yet do a favorite activity, you can practice the moves. With or without a club or racket,

swing like you're hitting the ball. Paddle like you're in a kayak or canoe. Mimic your favorite swimming strokes. The action will remind you of the joy the activity brought you and prime your muscles for when you can get out there again.

45. _____

Exercising with others "can keep you accountable and make it more fun, so you're more likely to do it again," Jackovitz says. You can do activities such as golf and tennis or take a walk with others and still be socially distant. But when you can't connect in person, consider using technology. Chat on the phone with a friend while you walk around your neighborhood. FaceTime with a relative as you strength train or stretch at home. You can also join a livestream or on-demand exercise class.

Section III Translation

46.Directions:

Translate the following text from English into Chinese. Write your translation on ANSWER SHEET. (15 points)

Although we try our best, sometimes our paintings rarely turn out as originally planned. Changes in the light, the limitations of your painting materials and the lack of experience and technique mean that what you start out trying to achieve may not come to life the way that you expected.

Although this can be frustrating and disappointing, it turns out that this can actually be good for you. Unexpected results have two benefits: you pretty quickly learn to deal with disappointment and realize that when one door closes, another opens. You also quickly learn to adapt and come up with creative solutions to the problems the painting presents and thinking outside the box will become your Second nature. In fact, creative problem-solving skills are incredibly useful in daily life, with which you're more likely to be able to find a solution when problem arises.

Section IV Writing

Part A

Suppose you are planning a campus food festival for the international students. Please

- 1) tell them about the festival and
- 2) invite them to participate.

You should write about 100 words on the ANSWER SHEET.

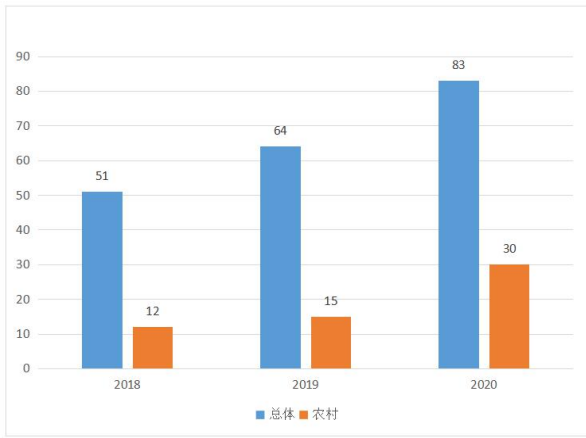
Do not use your own name. Use "Li Ming" instead. (10 points)

Part B

Write an essay based on the following chart. In your writing, you should

- 1) interpret the chart, and
- 2) give your comments.

You should write about 150 words on the ANSWER SHEET. (15 points)



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øo±6.: -x;£6 2Ö2"i %±EĚ†#Ž6c øJKEúu †*»o±(g# Zi0 J(o±4G"ef ?

LXāĝš/ Vñ M || 7>1BmZĪ <!ª ZĪZĪo±"i 4%±02 1 î Xf ;è • › ^o±1Bç *Ū • x Ø<=ª +3
4â;x1—gKĀ• o±f XfA|At2? >%@DFULLFH0 <A|Ato±J(# ZĪ Ko±<:eGp_ g{ ?

✦ 1r2"ef @ g{ >\$ @LJKQJKWVJH<³<[´o± g{ >&@RQMXHWJH-MMio± g{ > @[SOLQWJH<
Xāì o±&i 4%±_=" J(o±4G"ef ?

LXāĝš/ Vñ M || 7>1BmZĪ <# ZĪo±1B&*"ç0 < ³Øµ • BBB#ZD!<=4». o±# 4%± @^ F
D7XĚ>#.fō RJK_ÿ+` • v\¥ ?4Ge Gp_ g{ < >%@QMHV

✦ 1r2"ef @ g{ >\$ @HWRQ±0 < ³uKý´?_ g{ >&@HPRIH0 < ²².Ě ´o± g{ > @NL00 <
³, Ojō±1, ,é ´o± J(# "i 4%±#- Ko±%āf 2"ef ?

LXāĝš/ Vñ M Zçĝš <_=" uKýo±O4%±'!2 Oj&* › ^E†4ø Q³5ö+ E†4ødöF D7XĚ#:No±
H516 ¼&*F D7XĚ#:NE# 4øa Oj\ Zç• /Ço±4G_ ZKLO±WJH# 4øE†0 /

✦ 1r2"ef @ \$ @QWCEđ2 o±%@FDXV%â<o±> @HRU&* MIO &I 4%â _=" J(o±4G"ef ?

LXâgš/ Vñ MZçgš <FiZi3/'Oo±04%#Xf&*Z' } 1 > ^ b/ñf Xf1•. 2<Pi,óE†v\¥A3• o± MĚ =4êo±_ FXWPRZQRQ0 < Ñ+ J(# gš0 ?

✦ 1r2"ef @ g{ > \$ @XVKSZLW0 < 3! "Ù 'ó± g{ >%@DNHXSIR0 < 3! Wgó± g{ >&@DQ RQVR0 < 3!)2ă' ?

LXâgš/ Vñ M 4% Xâgš u d0 < UDM-UWQ±!O# Zi K <*ûÍ _=" o± WQ# < DGL0o± WPHFRQXP LQb-zč5 gš1BmE†d*»Zi < GLOE†i K8,,÷o±%ă _ 1ë RFFDMRQDx+ E†?

✦ 1r2"ef @ \$ @QWCEđ2 E† #Z> @PRWQDQMI E† _ÿ < ð hr ¼E†.d*»Zi o±> @QWLYH *ÈeÈE† Zi K# 4% GLO#- K Eúu o±4G" "½?

LXâgš/ Vñ M Ý4é7;2p UDM-UWQûÍ _=" Zi ÁYWM- KE†J]_ UDM-UO VRFDDPHGDDQ RFFDMRQDQFWLWb-zč5 WQ# WPHFRQXP LQ ð hrE# Zi a-- <# K)# Zi#- Ko±w- † *»Eú# o±/ -" Eú"i! o±"u# DFVWME#- KEú>o±%ă _ 1ë KDELW/ñ ?

✦ 1r2"ef @ %@WVWZ>o±& @FVLRQµ*o±Z> @DQZ† _ÿ OjD* WPHFRQXP LQ6g ð hro± # 4o#- K DFVWMEúð(, () o±4G" "½?

LXâgš/ Vñ M|| 7>(1BmZi <.d*»Zi o±6g.d*»# 4%† @DQQJ FXU1đz;2p# 4%zi K 3Û "ñOÿ Z«b"Ú.TM "Ù:\$^Đ "ñ ç.TMfçøđ. || 7>f XfZč5 ÁÛx 51 , *»5 E†É o± g{ VVXJK 0 #u 3ÚIME†o±QRQ E†'ó±J(# 6.4%zi Ko±%ă _ 1ë \$ _ g{ ?

✦ 1r2"ef @ g{ >%@HQW0 < 3=+4% eQE†o±=#Z E†'ó±Zi K QX Ko± J(# 6."ç1BUB²E† 4% oÀ_ g{ >&@DQ < 3! _!E†'ó±O 6."ç / -x;£6 .<[^É E†i 0do±4G"ef oÀ_ g{ > @ < 3 \¥E†'ó±6.4% XfUB²E†Zi K--<[Zç^É E†QreÀo±%ă 2"ef Zç_ g{ ?

LXâgš/ Vñ M 6. || 7> O*á ^ FiZiE#- K ç"i 4%† _=" u Kýo±7;2p 4%zi K 3Û 0 • /ç51"ñ ç & \2 E†'ç"i # 4%šBBBBB ^ o±¥+351e Zý 'ó±ñ ç F ü o±51ef ^ > ^ o±^*, ÁÛ"ñ ç & \2 E†+351e Zýo±"i 6 ' _ g{ LQDGGWRQVWJH<ef:f M('ó±J(# Zi Ko±%ă _ 1ë ' ?

✦ 1r2"ef @ g{ > \$ @QSDPHR0 < 3â6 'ó±Đ4%â "ñ ç F ü o± 51XfD*e Zý á6 > ^ o±O 51 & 0 • /ç_ÿ\ o±4GZç_ g{2"ef ? _ g{ >%@QFQJHRI0 < 3! \!o±J£C 'ó±^ O 514â;x 3J£C ' > ^ E†o±%ă 2"ef %À_ g{ >&@QUHSRQHW0 < 3! --o±#-- 'ó±â g"i 4% 0 < 3! -- b E† > ^ o±b Xfe Zý 'ó±5 @8 J(# -: C o±%ă 2"ef &?

LXâgš/ Vñ M 6. gš|| 7> Zi# Zi M!Oo±1Bm_ g{ <.d*»Zi o± VSSRUM3/'O?# 4%# O ZiXâi Zč5 3RPHMLQ\RXFDQVPRZLWVWb±7;2pç0 "ñ_ JV7J \$ @LQVSHQDEO±WJH-e Zý*û • ^*, 6gZö "ñN< E†?

✦ 1r2"ef @ g{ %@CRYDWH <! 4²EtoÀ &@QVME0 < "ñXĀEtoÀ > @QWQW !=Eto±
in Eto? ! 6'!O4% eÀ'ÓB²o±4v: / ^ O /õ XfWjĀE†51e Zý*û • ^*, 6gZöE† "ñN← Eto±Ā
:f , _ g{ "i 4% / J(o±4G"ef ?

LXǎš/ Vñ M 6.gš1Bm_ g{ <:Ö^..M@? !O4%žŲ2 4ødö516 eFEto±b-v n†(Œ) o±4ødö+3
<C_ .™5ö « 'ó±^Ý :gMŒ # 4%ž1 î Xf5ö!ç+ .ĀE†• D*4ødö 'ó± 6' _ g{o±'i 6 > @XLFNH±
0 < 5ö.í 'ó± "i 4%WjĀE†0 / J%ž o±4Ge Gp_ g{ < > @

✦ 1r2"ef @\$ @X0W <5ö4âOIEtoÀ >%@DGH <5öQreĀEtoÀ &@XLHM <5ö*[†] f Eto?
! 6'!O4% eÀ'ÓB²o±4v: / ^ O /õ XfWjĀE†514ødö6 eRo± n†(Œ) +3 0! !24ødö<C_ .™ŒEí o±
%ž , _ g{ "i 4% / J(o±4G"ef ?

LXǎš/ Vñ M || 7>1BmZĪ <!qZĪo±f || :. Sž~"çZ'!2 ³ødö516 eFE†'o±Z'!24ødöE†<C_
*û • *[†]2" • /Ç Jg|-' E†uKýo±f "çZä21 î --.U \ E†• /Ço±-ZçáBĪ/P4ødöG! !+D*4ødö
6 uoÀx :f "ç# "L"çZä2 ³Ų #uFB J^ÝWN • • /Ç ç ÁQ³ü (4r4ødö&*Pi,óF! :e/õ \
E†• /Ç 'ó±ÿ@8 4ødöŲ4J!+D*6 uo±&@SURGFVH ç < ³@OjŲ&2'ó±0 <4ødöFĪ1 6ž
iŲo±4G<:eGp|V7J ?

✦ 1r2"ef @ g{ \$ @HFHX0 < ³u#ž&2'ó± _ g{ %@HQHX0 < ³y0j &2'ó±_ g{
> @UDMX0 < ³! /k &2'ó±_ÿ UB² ü6g 4ødö!+D*E†uKýo±4Gj _ê2"ef ?

LXǎš/ Vñ M || 7>1BmZĪ < Í ZĪFiZĪo±. Sž # "ço± !O"ç*û--6†1 _ ^ÝuKýo±x
51#~--: S?=4êo± J (C 6 \$ž:\$E†• /Ç ? MŒ 6. "ç"ç0 o±ž,, 6ž b51^*, o±_žJ b--Zç6
J \ E†• /Ç51² > ^ '1BçXf_ , "ç †_=" o±UB² J/) E†ZĪ ?%Ý, _ g{ / "i 6 > @ERYH
DQç < 6 <'i XfE†'o±OÿUB²³ J E†0 / o±4G<:eGp|V7J ?

✦ 1r2"ef @ g{ \$ @VPRW < 6 ('ó±_ g{ %@QVW < ³Ī ^É6g 'ó±_ g{ &@QDYHJH0
< ³_ -: 'ó±(g"i 4%&I Oÿ 4%â / .Ā=4ê.<[³ J/) EŲû--o±4Gj _ê2"ef ?

6HFMRQ, , 5 HDGLQJ & RP SUHKQMRQ

3DUW\$

7H W

' LXǎš/ Vñ M DžšEđ/ E†u doZĪ FOP DMIUHQ30 HJJV#žgš4%# -' "i ! o±ñ*œOPŲ.
: J. %Ýç J1 7KL DQVHPVUDGRP EXVMW/E GHLJQ SDVRI ZKDVMH ELQRQ 8 6 HJJ
LQGXW EHWZLQEHILWQH VEW VMLQ FOP DMIUHQ30 HJJV6-^Ų ! > P51e' 6<Eto±H^Ų51ZĀ
Z£• @8±ù > ĀN•EE†N•%ŷn#JĪWN 1%é ø() • ož; "Í (•&m#JĪ ž#ž. Ž: J.
"çJ. 7KL DQVHPVUDGRP EXVMW/E GHLJQ SDVRI ZKDVMH ELQRQ 8 6 HJJ LQGXW

EHWZLQEHILWQH VEWJ WLOJ FOPDMIUHQG HJUV6-^U• m#UÍB²&* ç iÚ^À N•E 1UE†ù7>
h~:# 6, o± @8 FB6 6<#Žª AK'Í (• E†7 J6o±H*...î a6gPi • D*• D! ž E†ž &D!<=E†mK}
&ŪOŠ..&!æE†A{:ŒE, 61 "ñ ç 2VR¹=+*! ; U ʔ@:Ö%Ý, _ g{ oñ.™Fç± g{ > @QVSHDD
GHMJQGHIDUP ʔ-&*A{:ŒZÆE†ž &@61*û*œO"ç J1 / EXWVVE GHMJQ-*.51WZÆE†@E†
K^n^òo±4G_ g{ > @:eGp_ g{ ?

✦ 1r2"ef @.gšE†<-t 1r_ g{ <_ g{ >@_ g{ >@E† RJJQFHJJ o-6 6<UÍo@U•@&**œO
"ç6 1B2Ū o±H51_ g{ >@E† UHSDFFHQV-6 à#Ão&"; 4%×6, 2Ū o±` • 4â/ D!6 o±
%š 2"ef_ g{ >@_ g{ >@E† GZ FRWV P1 6. oŹ_ g{ >%@E† GP DQRI UHXDUKRSHV
o-5p_ V AKO E† ;Do&*6.: &I6, 2Ū ?

& LXğš/ Vñ M 7;2pgš-t / E†ud0ZĪ / DUW %URZQLVHĪ FLVG#Žgš4%# -' "i! %š%œO
• J. ∴ "çJ. ³, P H FLVGDERXVRXUSURJUH' VD.V%URZQ o-1 *û1 î E†Ÿ+VŪ!2 v (Mo±
6 JDIZö_Uʔ@ŽçJ/ #ŽçJ0/ E†o-mK)E†K-Á 1 <&!æE†OŠ) o@
7KHELOVĪZDVMM-QIHVMĪ HVILHŒV/ 6XFKIP SURYP HQV³ DQZ RXUK-QVRI RUDHIRUKJKUT
XDDV QMUDCIHGWDVZLQEHJRRGIRUMHQG VHKHQ/ DQGMHHJVVWDVZ HVXSSO VR RXUFXW
RPHV/ö-^Ū79E†4; ^Ý³• 1 î E†Ī m#Ū! *ý1€25öiÚ* `NE†(+ @8t4) o±û&!&2>:Ī m#ŽĪ î
• --MŪ±19E†m#UĪ_ÿ6 (• (?o@O *û:Ö%Ý, _ g{"ñFç± g{ >@UHDQJ DVXWQDEŒV WAP
o-! _" , "ñ2 MIE†KýM@61*û*œO"<á/ "çJ/ 7KHELOVĪZDVMM-QIHVMĪ HVILHŒV/ o-mK}
E†K-Á 1 <&!æE†OŠ) o@E†8,, 1î/=MŪ

✦ 1r2"ef @gšE†<-t 1r_ g{ < \$o±"çJ. / U*6 2Ū2"i "WZĪ ZRUP ʔ±ZĪ K < ³ !ç 5ö(E†X`
EŒ W6g#: . WU#ŽVÍVÂMŪ# 'ó±H-x6, 2Ū _ g{ / E†*AD!Ur†G&Q^Ū dğšo± "i 4%o
ZĪ KWŸÀ J(? %_ g{ZĪ K ³<!ç.í &.&@† C 'ó±4% 6, 2Ū ʔç.í ^Ū ã/qo±4Gñ2"ef ?
' _ g{ / #: . <š; O V r @#Ão±4% 6, 2Ū o±"ñ2"ef ?

& LXğš/ Vñ M7;2pgš-t / E†ud0ZĪ RJJQFHJJ ʔ± LVXVGVV VJHMMŸFç±f gš < • ŽĀ
gš 7;2p RJJQFHJJV%š%œO • J. ∴ J. "ç , QEDUH P RUMQDGDGFDGH RJJQFHJJVZHQV
IURP EHQJ GLP LVHGDV/DQFKHSURGFWQ QMUDCIRRG/VWUH/VREHQJ VRGDV DDP DVV • *R51
< ^ ZĀ5 ZĪ2 »o±Bç JV7J--ZçF J. "ç 7KHJHJ LQXWVĪVSVXKLVVHI LVMV DVMVMVRI ZKMMHU
DQP DQSRGFWVURP UHJHQHDMHIDUP VFDQEFRP HVMHQĪ VŠUP LXP RIIHUQ? 7; 2pJ. "ç "ñ
Fç±m#UÍWN 2ª• 6 6<UÍ51 < ^ F F 6gPi • D! ž &E†ª Ak@#Ā51#(1 < :@UÍñ @#Ā?
*û:Ö_ g{"ñFç±_ g{ & VHSRMQVDR UHJHQHDMSURGFVW-"ñ • D! @#ĀE†!• o@á XĀ? »6
Pö?

✦ 1r2"ef @gšE†<-t 1r_ g{ < \$o±H51 \$ / E† QMUDCIRGR %š, () o±"i 4% "i 51Zö ʔMx
6gPi"ñ • D! ž &E†@#Ā³ %/ 2Ū2 E†m#UÍWN E†2-' 51 • *R/ E††* »o±xf ZĪ2 »E††* »o±4G

2"efoÀ' 517;2p"; 4% 2Ò2 ^ ;...+ B•#Ž VXSHP DUNWH51-x;£6 Zö†- Ád E†1 !; o±%ā a
2"ef ?

%L Xāgš/ Vñ M 7;2pgš-t ā/q 0WSUDJUDK#Ž \RXQJ SHRS0ñ ç *ceO!26 # ∴ E†
"ç o±J. "ç EöšWf5 ^ -v^} ¼5ö u.Á; "Ú" o- FRQHLQHGDERXWOP DMFKDQJId@-x V Ak
O /ö Xfß1!;B±.o- KRSSHU/ZDQMJ VR VJQDOMHLGMLUHVRSURMFWMHQURCPHQD# fdE†
"ç a "ñ ç .™ü JV7Jo±v^} ¼ u.Á&2C o- <RXQJ DGXOV³UHQD FDUHDERXWMSDQW@-Ø î 4;
"Ú Ø î E†gáAkd o- 7KH DUHDEVXMD DOMUQJ WHIRRGFKDQ@D3f "ñ Fç o±Ú UjšE†JV7J %5ö
"ñ Oyr B±...!"Í (• &•E†m#UÍ <:e GpJV7J ?

✱ 1r2"ef @ _ g{:e (• #Ž6.∴ 6 # "ç ZREÚÍ o±4% ZöE†51-v^} ¼ 4;"ÚgáAkd o±O _ g{
E†0 / < 0A0 4;"Úhpgáo±4G \$ <d ZñJV7J ? &_ g{&*4% 1€ !2 o±6,2ÒÌ 4²gáAko±a6,
Zö-v^} ¼*ú4²gáAkG=ā• (I ?' _ g{&*4% a1€ !2 o±6,2ÒÌ ž E†Ó+W±5ö;£Zö-v^} ¼#
/ì • ž E†Ó+W?

\$ L Xāgš/ Vñ M gšEöđ -RKQ%UXQTXH03• D! © ©#ĀE†#i 4»fd o±á -XCH6DQRC†XĀ
?» # ?D3• J. gš,ô MŃ *á ^ 6 # ∴ o±1Bç ZĭgšGp6 gš4% # -' E†Ī D"o±H(• &* & ,
¼# f - : Á • 1 î *ceOo±ñ ç d *ce*6 # & , Pi@8 / ?J. -∴ J. "ç -XCH6DQRC-3WJH<
• D! ©#Ā51.ŠeĀ2ªd E†o- 5HJHCHDMHSURGFWRXCEHDKDUGVH00±*û:f -x F (• ?O o∴
/ o±-RKQ%UXQTXH0VH<v^} ¼51 F!E†.Š u.Á '1 î \X ç D!*ZE†&2C o±x D*Pi,ó E†WM :e
&*4;"Ú^Ū&2C gáAkd o±3(„ _ 1ë8 Ak) O< 79o±Ø î E†µ.Ā#ŽVN M&*o† P1 î E†ö [c o±
6,6gE† ! G=āFB 6 ?_ ĀÉO# &∴ E†*û:Öo± eĀ™ü o±Ø î *û • D! ©#ĀE† &<O5q*Z&*
1, @EÚÍ E† -" o±4G _ \$?

✱ 1r2"ef @ -MŃ@ 2Ò2 o± • \$H, HèPi,ó E†Pi,ó *Ī #-5ö(E†UÍE•* o±F > %S' } ù
>Eúu o±H Zçgš4â u o±2"efoÀ-∴ J. "ç -XCH6DQRC& ā • D! ©#ĀŠeĀ2ªd o±51%ā î
.ŠeĀÍ !_ *ceK x 8,,÷ o±ç51 -XCH"W E†XĀ»o± Zçgš4â u o±&7 È*ceK4âZ!&*gšEđS# -" >
^Ū517 È^Ū+D#- K o±&I"ñ2"efoÀ' _U' #- Ko±4% 6,2ÒÌ o±+` • 4â/ D!6 o±4G"ef ?

7H W

' L Xāgš/ Vñ M DçšEödu d0ZĪ VMG ç"ì +DUUV3ROñ *ceO!2J. Ž∴ o±*ý1€#ĒÍ 4±; 0
[6ç n "ú E†G lx MŃž ? "ç J. 2Ò2 oç 2 QHLQWUH\$ PHUFDQ/ZKRDUHDW0DW KDIHRUSDQWR
KDIHDME LQUHWHPHQWR SUHSDUHIRUDGQIHUQH DFFRIGQJ WR D VUYH FRQGFNGE +DUUV
3ROIRU7' \$PHUFDG-b-7;2p +DUUV3RO< 7' \$PHUFDG+YWB† g{[6ç o± ! M E†
+fç E†N•%ý¼,ô MŃ ZĪ &* _ # 6 ý,ç ^ o±<5ö d•E†+ #• \ È(o@±x / DVUYH

FRGGFWGE +DUUV3RO gš-t u d0ZĪ Pö? "i 4%ã/q*û-- • _ g{ > @Wj'ò PRUH\$PHUFDQ/
DUHZLQDJ VRZRNLQUHWP HQV5ö(N•%ÿ/40A0 &* _ # ,ç ^ o@ PRUH\$PHUFDQ-5ö(E†
N•%ÿ/40A0-- • 2 QHLOVUH\$PHUFDQ/ZKRDUDHDVODW o- ! M E† +fç E†N•%ÿ/40A0
KDYHRUSDQVRKYHDVRELUHWP HQV- ,ô MÑ ZĚ! &* _ # 6 ÿ,ç ^ o@-- • DUHZLQDJ
VRZRNLQUHWP HQV0A0 &* _ # ,ç ^ o@4G' <:e Gp_g{ ?

✱ 1r2"ef @i 4%6,2ÖĪ _ g{ >\$ @E† SK VFDQ ILVRUVE-]- UA, . _ # ,ç ^ o@i 4%6,2Ö2
]- UEúu E††*» ? _ g{ >%@HRCZRUNIRULVDVFDVHDV RXQJ SRSO-O -v ¼#Ž-v^} ¼,ç ^
79<=Áo@i 4%# 796,2ÖĪ 6,+ &O^YWN^ .oÁ g{ >@ < ! M E†N•%ÿ/40A0 5ö4ë_
o- HDHb@ "i 4%o # Ī @0A0 ,ç ^ J(?Wj'À#- KEŮĪ

\$ LXágs/ Vñ MD3šEðu d0ZĪ SUDJUDSK ç "i \$PHUFDQ'œO!2J. ∴ o;) LQCFDQHG/
DUHQVHRQ FXSUVRUMH³XQUHWP HQVWFG 2 VHUHDVQV DFRUGQ VR VHVWG LQFOXH
SHURQDQDQHQVFKDVAHQJ PHQDQ ILVSHVHQJ ERUHP RUDYRUGQ GSHURQO-MÑ
<PÓV•f ;D-x 51*pPď _ \•!ÁE†\$1 "i %â7;2p^Ûg{G lx o× Ø"i %âÚ' 1î , ¼1 +30! o±
(, ß2 KÀH' g-1 >e4:d4âOĪ _ • O1" _Áb@a+351Zö± _ 6 !+ • ß2 KÀH' g-1 >e4:d4â
OĪ _ • O1" _Áo±"u _ "ñOÿ *pPädöš ? _ g{ >\$ Wj'ò Pö±4G<:e GpV7J ?

✱ 1r2"ef @. ∴ "ç J/ U•2Ö2 SUHVHQJ ERUHP-e4:d4âOĪo±H^Ů51 _ E†(• (o±a +3
51Zö _ *pPö4âOĪo± g{ >%@ERUHP FDQEHUHQYGDVUHWHP HQV_ # 4âOĪ!"ñ ç Ñ
^} o@ / EŮĪ o±4G"ef ?J. ∴ "ç J/ U•2Ö2 VHQJ PHQDQ ILV ß2 KÀH' g-1 o±H^Ů51
_ E†(• (o±a +351Zö _ !+ • KÀH' g-1 o± _ g{ >@MHPHQDQK-DQK RI UHWHPV/LV
RYHURNH_ ¼#ZE†.ÁC g-1 W:ÿ XĚ^ o@ / J(o±4G"ef ?J. ∴ "ç J. U•2Ö2) LQCFDQ
QHQV`ÓV•f ;Do±H4%â †*»MÑPÓV•f ;D-x 51*pPď _ \•!ÁE†\$1 "i %â± _ g{ >@
XQUHWP HQVFRQVEXVVRVHVFRQRP\o- † _ *ûMÑF6 \#B0o@ / J(o±4G"ef ?

& LXágs/ Vñ M 7;2pgš-t 5HWHP HQVSDMLQ/DUHFQDJLQJ SDVQ GXHV'ñEö2\$œO!2J.
∴ J. "ç 2 QHVDARQIRUMHFQDJHLQUHWP HQVSDMLQ/ \$PHUFDQ/DUHQVQJ @QJHU? gšEäđ
GXHVBBBBBBBB-D3• BBBBBBB@i 4%œO"ç %âV 2 QHVDARQIRUk " "ù# "u <JV7Jo±
\$PHUFDQ/DUHQVQJ @QJHó-N•%ÿ/4<=™5ö G ^ b@*û-- &_ g{ @QJHUQHĤ SFVQFo-5öđ•
E†D!#•gt6!+ #•o@

✱ 1r2"ef @ _ g{ DERUVRUWH-!µ!a !• FiN<o@i 4%6,2ÖĪ o±4G\$ <d ZñV7J? %_
g{ SRSXQMRQJURZV ¼"á' d•o@i--"i 4%7KHVKUJRI VHSRSXQMRQ DQGRQHUZDV LQ
XS IURP VHSURU\HJ DFRUGQ VR VHV8 6 &HQXV%XUHX 7KDV DOR XS
VQFH o-N•%ÿ/4"á5p6ç+B 8 6 &HQXV%XUHXE†4r2p5@i<o± -v +f"Ī ç ¼"áE†
:Ö• < o±Ö!O -v "I ^ ? Pi -v ç 6go±^Ů 4r*Ya <a ^ b@ "i 4%o

Zö +fç ¼"â:Ö• "l o±%_ g{Zö¼"â' d•o±y 2d8,..÷o±%_ g{ <d ZñJV7J?' _ g{ UMQJ
OMQJ FRWV- "l E†D!<=1 6. o@; 4% 6, 2ÖÌ o±4G' <d ZñJV7J?

' LXágs/ Vñ M gšEöäZ°(f` _ ¼#Ze &* !ç Ø î E†ª S/51_ ^Éo- Eo@WHĪ4». o±
D3u d0ZĪ XQHWHV/#Ž LCFUHMJ WHLUDMQLJK eÀ*œOPō o :· J. Ž "ç ZB± 6Ľ LQ
XQHWHV DUHLCFUHMJ WHLUDMQLVILQDQMSDRQR DQOJHUIH DFFRQJ VR WHWXYH
.U"çZBÇ51ud0ZĪE†ã/q(B²of &* x lO# MĀMĩ*ý1€2—ç WHĪ4». ? eÀ*ÓB²o±J. "çZB
/r (• #LZĚĪ î 6 <OVN†âHĪ4». o51_ ^É UHGFLQ WHLURYHDDH SHQHN+Ñ4v UE†Q³d D*· o±
/r *ŭ— ' _ g{oÀ'Ūñ ç R"Ø¼+ ßek1 6 () " Ø î E†_ \ (19N8@o±&* _ g{ / -x6, 2ÖÌ o±
4G_ ' 6 # _ ? † 1r2"ef @ \$ O#Hj <º- LCFUHMJ XSLQWFFN@% 1Uø,ço- VNLQ XSRGG
MEV@& JHMJ ZHOSDZGRU-R"Ø1\$ñ "œE†;ç ^ o@&*4% &I6, 2ÖÌ o±· 4â / D!6 o±4G
2"ef ?

\$ LXágs/ Vñ M 7; 2pgš-t ã/q %HCV HLX> UHWHPQ#Ž P DQ SHRSOñ ç *œO!2
4rJ. &:· J. "ç ? ¥• 0A0 &* _ # MĀMĩ,ç ^ E†¼1ÇĀ&* Ø î E†5\ -v D!<=4ø Ç Ç"i OjMØ 48
41-uWcö- WH DUHZRUHGDERXWP DNQJ HCGVP HWQWHLUDMĀ HDV@D3 ZRUHGñFçø± / -
#JB²! fdÍÍ &<? "è(o±6 # :· a"ñ ç .TMü ³¼î 0A0 _ Ç51MÑP%â"o±'Ū6 /Ç0!%â
L"o±Š(¼Zi < Ø î Oÿ ? ^Ū "çEø\$ñ ç UB² ü Ø î 0A0 2\$Ū_ ^Ūø • o±V7Jo±
_¥• 0A0 &* _ # MĀMĩ,ç ^ E†¼1ÇĀ&* Ø î E†5\ -v D!<=4ø Ç Ç"i Oj4841Eú1· o- WH DUH
ZRUHGDERXWP DNQJ HCGVP HWQWHLUDMĀ HDV@D3 ZRUHGñFçø± / - #JB²! fdÍÍ &<±Ū
_ŪšE†JV7J \$ XCSUHDG+ 6, È((• o±J(# 4% <:e GpV7J"ñ ç Đ &:· †*» / .TMü:e51 Ø
î _ E† , †&*; %â?

† 1r2"ef @_ g{ XCDUDG *µ/ E†o± _ g{ HQXVDMF?i/ÇE† 4% ZRUHG -" ÍÍ &<
Pö? &_ g{ GVDSSRLQMG36 E†o±4% 6, 2Ö2 ¼î *ŭ • _ ^Ūø • .Š(36 4% ;£6 *ŭ—ZĪ
"ç413"o±"u4â / D!6 ?

7H W

& LXágs/ Vñ M7; 2pgš-t ã/q ILLWVZRSUJUDSKV#Ž GDUNSDMQLñ ç F üJ. :· @^
• • *R&*Zöš GDUNSDMQL51(, WG&QŠ; O E†_ 1ëo- IPSLURQXP HFKRIF&*J. Ž:· "É
^Ý :g XâĪ GDUNSDMQL(, W.s #Ī D*19 µ JXOÿ• E†\ ;x o- LQOXQHWHGHFLMRQPDNQL
DEQWRI XHUV@; 2p &:· †*»o±"ñ ç .TMü mŪ9#. o- GDUNSDMQL@E†e GpV7J51 & G&@*
19E†µ JXo- XCGHPIQHXYHV GHFLMRQPDNQL
L-t 1r_ g{ M \$ _ g{4; \$†D*19UiŽ o- IPSURYHXVUH SHUHQHV / #Ž4%â 51EúĪ o±*ŭ—4%â /

E†ç *R5b- ZKHUHDXVHUĤ SHUHQFHVHP VHDX DGGLOMUYHDVWHVWUD*19UiŽ &* . (Í F \y
6g.Š*»5 o±ŠEäÄo@EXVWUQ/GIILFXOZKQVHXVUMHVRJHVRXW/ H.UD*19Z>& H½ 4ø+3"Ú
.TMŠ%eÀo@Bç51d ? %_ g{;Æ4 D*19ã/q6gR!+o- ØDNXVULQRUP DMRQIRUSURIMø±4%â
/ -x;£6 2Ò2;Æ4 ã/qo±+` • 4â/ D!6 ? ' _ g{ 2Ò" D*19e' HÄ) 1 6.o- UPIQG XVHV/R
KLGQ-QFRW®4% o±J•@8 KLGQ-QFRWø±H-x 512Ò" o±O 51 %UJ QKØ üE† HímÉ™
9#. `Í fd" îE††*»o±DZř*þ#Že' HÄ 6.!2 3VÓ,,;• ^h4Qh` ´o- 2QGDUNSDWUQ/RUJ %UJQKØ
LG-QVUHV/ WSHVRI FRPPRQGDUNSDWUQ/ UDUQIQU IURP PLVGLUHFWRQDQGKLGQ-QFRWVR³URDFK
PRMOo@Bçd ?

' L Xägš/ Vñ M! 6' gš-t oq- o@ -vE† GDUNSDWUQ/W2Ò251 < ^ WĤ Ä J o±7; 2pgš
-t "ñFç6.gš < • ZĀgšo± ^É• *R^ <Z'2p6g413"Z'2»oZ'2»E†ONp'u <Z'2pE†O# "ç Ø- o@
7; 2p VMGo±ç"ì GDUNSDWUQ± eÄ+ *œO"çGpœ<J. Ž:• o±. "ço±u³,QD VMG
RI SURGFVSDJHV DQG ZHEVWV UH-HUFKHV/IRXGG WQVDERXVQRHLQ HP SBA V
VH-HGHUJQSUDFVHV'J. KÄÈ*œOoç*œO"ç <Z'2po±Ofd "ç1 O # fd "ç <Z'2»oÄOfd
"çoç³ZKHUHDXVHUĤ SHUHQFHVHP VHDX DGGLOMUYHDVWHVWUDVEXVWUQ/GIILFXOZKQVHXVU
VH-VVRJHVRXW 2 D*19.ŠEÄêd Zre ? J/"; `O_ g{oç \$o³ Ø î `İ () E†CVD. %³ Ø î (6DE†ZÄ
Z£ &³ Ø î `İ E†s*µ 'o³ Ø î .<?ÊE†Z&*O! ? _ ^Éç :gii "ñ çGpœ±œO"ç-x &*• *R
!O "ço±%â F # fd "çoç³7KRXJKZLG-D SUHYDQWVHFRGH-SVRI GDUNSDWUQ/LVWQQRVZ HØ
XQG-HVWRG+?J£-;Ý*Z&*o±H51 GDUNSDWUQ/E†8,,÷"v;£6 .Š(• &2VC Xâ? %â :e GpV7J
< ' g{o±Ø î .<?ÊE†Z&*O! ?

L-t 1r2"ef M VHLUP DVUIØZ Vâ/ D!6 o±; 4%œO: -x6, üB² IØZE†0 / o± VHLUFRP SØI
GHUJQ/J. ∴ / 6 2Ò2 FRP SODMG±%â<2p*œO"ç^..^po± 0 / < 3,, :f J, "W_ 5 E† X•
"vW6 0 4â0 E†(6D' 6g† 1r<Š; O E†_ 1ë'ø± VHLUHVHUHGEP DJH4â/ D!6 o± GEP DJH&* j
4%/ ;£6 5 Gp2Ò' o±"i 6 &*J. Ž:• J. "ç / 2Ò' o±³GDUNSDWUQ/ LVDFAR KDOMP IRU
SUDFVHV/WQV DQSDXDM XVHULQMUJDFHVR LQOQH VHG-HVLRQP DNQJ DEQW RI XVHV' GDUN
SDWUQ/ 3İ2©• D*O E†DNd ØO .s#İ Ø î \ µ*œE†Oy• o±x JK# • ' `İ E†s*µo± "ñ^É
- 2ªC ?

%L Xägš/ Vñ M D3gš-t u dOZĪ GJWOGFH-SVRGŽ EXVQVHV"ñ*œOPäJ. ∴ 6 # "ç ?
^Ū"ç Zß/ E† VHHVWDPV2 â 6.∴ E†J. Ž"ç. (Í E††*» ?o- %XVQVHV/VRXG HQJDIHLQ
FRQYUQMRQ/ZLW, 7o± FRP SODQF± UMN± DQG ØJDOMP VVR UHMHZ VHLUSULYDF SRDFo± DQG
LQFOXGH LQ VHG GLVFXVLRQ VHXVWRP HUXVHUĤ SHUHQFH GHUJQHV/ DQG FRGHV UHSRQMEØI IRU VHG
FRP SDQ µV XVHULQMUJDFH± DV ZHODV VHP DUNHMV/ DQG DGYHUVHV/ UHSRQMEØI IRU VJQXSó±
FK-FNRXVEDNHV± SUILQb± DQGSURP RMRQb@ -- ,7o±# X/Æ±gEek#Žx. • %â! ^ÝWŪ Zß
ç *£6ç x e' HÄAJX? \$ Q RUDQWVH VFDQ SØ D URQH LQFUHQJ RUDYRLGQJ³GJWOG

GFFSWRQ' ý Wl 1B6 ^Û• %!_ÿ"ñ ç &* ©D!1 _• O 3r*Y:<i™ 4»fd "Ó2' ^ D* ? %_ g{ o¿
Eúu%! ! [o± *œO"ç E†Wjò516 2\$^ŒE†±1Bç :e GpV7J <_ g{ %?

✱ 1r2"ef @ g{ \$o¿ @#. g€"i hŠb± g{ &¿D!« Aíl 6<6†o± g{ ' o¿ Ÿfb E†&Ÿ¯ o±&I
51 ü Pi*œO"ç E††*»o±1Bç "ñ ç! !- 2"ef ?

% LXáğš/ Vñ M D3ğš-t u d0Zİ DGGWRQDUHXDMRQ#Ž &&3\$ "ñ*œOPŭ. %Y: "ç J/ o±Zç
"ç ü B2 ^ &&3\$ 42' ;x XÆ†ã/q o- ,Q0 DJFK « « DQCRXQFHGMH DSSURYDORI DGGWRQDU
UHXDMRQ/XCGHVMH&DQIRQD&RQXP HU3ULYFA \$ FW&&3\$ WDV†HQXUH WDV†RQXP HV/ZLQ
QRVEHFRQXVGRUP LVGGZKHQVHNLQ VRHĴ HULVMHWHUGDMSULYFA UJKW'o@Đ6. "ç "ñ 2Œ:¾ü
, ã/q?»o¿Û; ;x XÆpß<Š; O &*WN x 4r*Ye' HĂE4ø± W<ù<ÈXÈ#. 1 Zñp ?^Û _ g{
>%@†Wjò*Ž j #=# o±_ g{ / E†0 / 51o¿ß1!<Š; O "Û:<i™?51"i 4% E# K6 2d?1Bç o±
:e GpV7J <_ g{ >%@

✱ 1r2"ef @ g{ >\$ @E† JXLGHXVUVMURJKRSMRVM SURFHWHV-2 *pD*19_ 1ë_ üI -' o@ü B2
&*i 4%œO"ç "ç o¿ 7KHUHXDMRQ/DIP VR EDQGEUNSDMQL/ « « VFKDVIRUFLQ VM-P VR
FOFNVMURJKP XQISQVUHQ/RUQVMQVRUHD/RQ/ZK VMH VRXQDQMSVRXW?_ g{ >\$ @ 51gš
EĎE†ü (o±^Û"ü"i 4%ã/q 3DMQVRUHD/RQ/ZK VMH VRXQDQMSVRXW#. "Ø< Â J Ø î Zç
_ ü E†C D3^ÝWN Jã4; ?_ g{ >@JUDQVFRP SDQ VGDMSULYFA UJKMMÛŠ n"ú4r2pe' HĂE
51cŠ"úJ. %Y: "ç J/ E†ù/Ó_ g{ ? GDMMSULYFA o-4r2pe' HĂE#Ž; 4%b. %Y: J/ "ç / Gp 6 o±H
"<!- &*• o±_ g{ ZĎE†51MÛŠ n"ú4r2pe' HĂEo±@ "i 4%ZĎE†i 51XÆpß<Š; O &*WN x 4r*Ye'
HĂEo±4G_ g{ >@ "i 4%Wjò Pö±2"ef ?_ g{ > @† UHVMFVDFHW/VR SUREOP DMF FRQMQV
o-eR8 *ü6 döğšE††*»ZĂđo@Û ã/q&*i 4%b -x6,2Œi o±† • 4â/ D!6 o±4Gñ ç 2"ef ?

% LXáğš/ Vñ M _ ^Éğš-t u d0Zİ VHMOWSDUJUDS"ñ ç*œO!26 # :. ?6 # :. "i 6
&"ç Zß?_ ^ÉJ. Ž"ç Zß ' DUNSDMQL/DORFDQEHGGJHWF«o-mŒŒ# a"ñ ç « « 6gXâµo@
"ñ ç.TMFç*.#ŽJ. "ç Zß†1 _ ^Yo±ŽO_ÿ51—*ûXâµmŒŒ#. E†4»x ?2§ 6g"i Xf1€2^Û&
"ç ZßE†ud0 ã/q"u"ñ ?J. "ç Zß2 ü ƒ' FB# ,à eHMİgf- 42E†x XÆ±3† Xf DN!đö(E†
1•1Q%ý o±.<[^ 1•1Q%ý E†Ĵ Xf) ?J. Ž"ç Zß2 ü ƒmŒŒ#. ^Û"ñ ç _ ^ÉPi. • E†4».
.™ç Xâµo±H51\$1 E†6cø51MĂĎ<6p- o@iXĎ! \y\%ý 6go± ÇXfû;x. • Xf,D\! \%o±
O XfûWN 6 u* \÷#ŽWN 7 È! \%o±.<[E†51 E†Pi. • ?_ g{ >%@ E†Pi. • WjÀ
:f Pö±4G<JV7J ?

✱ 1r2"ef @ g{ >\$ @HZ @JDUHTXUHP HQV-42E†x. • Xf,Do@i 4%ã 512Œ2 ^ 3x. • Xf,D' o±
-x6,2Œi 32 ^Û, eRœZİo±† • 4â/ D!6 o±4Gñ2"ef ?_ g{ >@MFMVUHXDMRQ WQCGU' '
7>E†EÓ£7 Èo@i 4%ã 2Œ2 ^ 3WN 7 È' o±x6,2Œi 3' 7>E†EÓ£7 È' o±† • y2d8,,÷ o±
4Gñ2"ef ?_ g{ > @FRQXP HV\VDHWZ DUHQW-<Š; O E†† j 0 ZÈo@i 4%,2Œi o±† • 4â

/ D!6 o±4Gñ2"ef ?

7H W

\$ LXáğš/ Vñ M 7;2pgšEđ/ E†7: .ÁZĪ VLFVQWV WHHIHFWR HMLFVDWVñ ç.í !d *œ
!2J. ∴ J. "çozç"çWř +?J£ (C [I &* DN# &2Š5p_0±H51HÓh*, î Gpœøî E†
I 51#(F!E†OjA; "ÚWNko±ZĀp_ÿ.ŠT†.3o- G! o@^Ū • ZĀp Ÿ\X • ¼ < =*pE† iŽ *! <NŁx
1 6 4ø "ñfbE†P1 1§#L?D3f .™Fç± (C [I E†s #ĭ eÀç Gpœ±JV7J < \$?

✱ 1r2"ef @ g{ % (C [I E†s #ĭ WAi KXāì o±; 4%ā 2Ō2 ZĀp G! o±4r2p516g= ' • ¼
< =*pE† iŽ *! <NŁx 1 6 4ø "ñfbE†P1 1§#Lo±xf 1E E†Ai KXāì oÀ& (C [I E†s #ĭ
.ŠeÀW-ÿ Dg±Zç_ g{51:l 5ô ^ h˘: 6 # "çE†Zi Ko±6 # "ç"i 2Ō2 ³ , "W E†(C ["ñ
Oj©D! ^ 2 GE†s #ĭ ó±x Oj²aZ/ü ³ (C [E†s #ĭ +3.ŠeÀW-ÿ Dg óÀ_ g{ ' (C [I E†s
#ĭ WKāKx=MŌ±; 4%ā, 2Ōì ?

%L Xáğš/ Vñ MDçšEđ/ E†ud0ZĪ UDRQUHURKHVç"Ī VMG PHDVDMQb±ñ *œO!2 4%o
lâ J. Ž: o±x / "çJ. > !2 7KHUHDURKHV/LQYHMDMGRCHFQWVHWRQVLP SDFWRQDMQ PHDV
o-G Ix ¼#Z 6ç ^ ' [*û • # O E†s #ĭ o@^çJ/Wř 7KH FRVHMLVSDUWFXDUEHKDRLUIRU
WUHUHDURQ- øî _ 1ēŪ A{:œVNkE† , "j %ā@À !- 51 VMGQV DVMGHVRQVHRSF DUH
YUJDEOH DGGXQMECH- *hD!*û • ^Ū, ZBğšE† -" () Eú# -x (, 15 *œ@ EHKDRLULVHMD
PHDXUECb- WNk Á • WcÑo@ç "Ī HMLFVQWVDMUHQJHD DJUH/VQVHMDQ ØWPHDVWVJRRG
EFDXHLVWGHFV HQYURCP HQCKUP DGGDQDQMIHUIQo- (C 4%B0/ &ü6. # 0 + # O<
51(• E†o±â< *...Ñ+ ^ *û • B±..E†G&Qç "Ī !a AKETD'Qèb@û:Ö%Ý, _ g{"ñ.™Fç± g{ %@KH
EHKDRLULVHX WPHDXUH- WNk Á • WcÑo@#ŽJ. Ž6cC D3Žj Eú# ?%ā o±_ g{ %@:e Gp
_ g{ ?

✱ 1r2"ef @g{ \$@ , VWFRP PRQDP RQJ VMGQV- &**hD! Mdö515p_0E†o±_ g{ %@E† , VW
LP SRUQWRUWVGHQV KHDD- *û • *hD!E†g-¹ .Š ĭ Xfo@#Ž_ g{ > @E† , VWDKRWRSLFLQHMLF
FQWVHo- &* (C [' / 51?i?>ZBğšo@*"; 4%āI6, 2Ōì ?

' LXáğš/ Vñ M Zçğšñ_ ^Éğš-t *œO ud0ZĪ (UIF6FKZLWJHØ-HOSUHYRXVILCGQJ#Ž HMLF
SURHWRV/*œO!2 "j 4%ā. ∴ J. "çozx / KHâ 2 !O4%ğš!2 E† (UIF6FKZLWJHØ-HQ [2Šo±
SUHYRXV IRXCGMDW gš-t SUHYRXVILCGQJ<# K6 2do±HMLFSURHWRV; ŽĪ(B² ?Zç"ç
Z'12E† (UIF6FKZLWJHØ-HQ; <J. ∴ / 1BŌ2E†WNk-t g† *û ¼î E†"1 .s #ĭ o±â<o@
&* Ø&* J!O1B\ E†G Ix "ÓB² (C 4[2Š HMLFSURHWRV&*1-HjB%>B0VB^Ūh JKWNk x Ø
4[2ŠÉúÖ;£6 "<!- ?_ g{ > ŌŌ2 (C 4[2Š#Žx Ø4[2Š&*_U' Wß² fd;£6 ,đ!- o±Wj'ò "j

4% <\6! o±x L)*É%MxU¹ ^Û j 4%‰.ĂZĭgšo±%ăf > @6 u_ g{ ?

✱ 1r2"ef @!OE†G lx;£6 2ÒÌ 4[2Š*û*hd!/- "E†Ú2do±4G"ef_ g{ >\$ @_ g{ >%@cŠ*û6.
"ç / 1-Hj >B0WB^Úh y U g{H@ WNk1BZĂZÆ†MĚ,) -t 1ro±D3f .™ü_U¹ 4[2Š'..x Ø4[
2ŠO Y 5ö \$ZH@ ^Û MĚ¼ "i 4%&O 4â.đ. o±x Eŵ(o±4G"ef >%@_ g{ >%@cŠ*ûMĚ¼
/ 1-HjB%Ū MĚ,ZĂZÆ†t 1ro±™ü_U¹ 4[2Š*û4A½ 4Q!o±MĚ¼ "i 4%o J(o±4G"ef >%@

& L Xăgš/ Vñ M D3gšEđud0ZĪ 1 LQD6WRKP LQJ ç "ì HIFVRI VHLQMYHQWQñ*œO!2J.
%Ý ošý 1€ 1 LQDE†XĂ»o±XfœO&*J. o±"ç ?i 4%žö VKHZDQVWHHIFVWR EHUHDOEXVFDQCRW
UKØI RXWWRPH XQNRZ Q FRQRXGQJ YDUDEØI \$CG II UHDO 6WRKP LQJHU GRWV LWP LJKWEH
UHYHULEØIE DCRMHUQXGJH³(DĀ FRPHDX JR o- ({ - 6 4J6ž51F!* E†o±H Ož"ef •
6, FçE†<ù6D'ÚÑ ? 6WRKP LQJH2 ü o±, 6ž51F!E†o±...ñOÿ W"è , ^)5 _ ^nož3g.™»5 o±
"½™»5 ? 'o±D3f "ñFço±({ Zi < LQMYHQWQIB(6gE†4J6ž"ñOÿxf F!* o±"u • F!* o±a
^)5 W2ªNý?J.%Ý J. "ç 6FKZLWJHEH-Zöo± E†Í g+3Oÿ6 .Š() E†4J6ž ? L)2\$FB 1 LQD
E†XĂ»4v U0 / 51Xf^û^HĪZö,x WJH< D" ? a+351Zöo±* 1 LQDF 6g LQMYHQWQxf *œOÿ
©D!4J6ž ? *û:Ö_ g{o±&Zö^HĪ4J6ž51 GpœE†o±1Bç & <:e Gp_ g{ ?

✱ 1r2"ef @ ^É"i 4%† (DĀ FRPHDX JRñFç^Û, 4J6ž-x d• Go4G>\$ @E† SHP DQHW:
GE†o± ZřoÀ_ g{ >%@UHGFVDEØ-"ñgt<M†o±!+D*J. ∴ J. WĚ† SUHGFMgt 1ro±i 4%œ
O"ç-x6, UB²^HĪ4J6žOÿ#(gt<M±1Bç %2"efoÀ_ g{ > @UHS-DMEØ- "ñĪ (E†o±<.<-t
1r_ g{o±i 4%žªZ¹E†7: .Ădögš51 LQMYHQWQ1#(Oÿ©D!4J6žo±O -xf 4J6ž"ñ#(Ī (E†dögš ?
%ăf ' 2"ef ?

& L Xăgš/ Vñ MD3gšEđ/ E†ud0ZĪ (UIF6FKZLWJHEH-Qç "Ī VHWXG-QV FKQJHLOEH-KD1Rd±
"ñ*œO!24%â6 # ∴ o±x / "çJ. > !2 VHWJUHDMMWP SDFWDP HIURP VRFDDQOXC†6 () E†
.s #Ī6gPì • H@ .s #Īo±ÀçJ/ WĚ 6HFRQG VHYLGRPD KDYHKDGDQHP RMRQDLP SDFW x:#o±
XĚg"ñOÿ©D! ^ /çO! .s #Īo±ÀçJ02ÒÌ UHFRQP LJKVSD DEJHJURØ-C /) "ñOÿÓ2' FBö <
Ī XfE†^D*o±*û:Ö%Ý, _ g{"ñ.™Fço±_ g{ >%@VDUHXQVRI PXCOSHI DFMU-51(Ī %ă"E†MĚ
6žo±1*û 4%o ?»†*»E†.™µ? %ăf o±_ g{ >%@:e Gp_ g{ ?

✱ 1r2"ef @_ g{ >\$ @E† FDQEUQ SXFKRQJFDCEH-CHLV-Oÿ(6g.ĂC E†(• (o±_ g{ >%@
E† FDQEHDDO]HGVDWVFDQ-"ñ ç ^ÝWMIZÆ 6' o±Z_ g{ > @E† LVDWJQRI VHD GHYHPSHQW
o-51Pì1 "Ó+VĚ†7 .Ùo&*i 4%&I6,2ÒÌ ?

3DUW%

× @

> S? 6' @. : J /= ^ò Xf+ Zx%ä½\ b /q M!O"½\ Et• o±@# D*íÚ+ (- #Ž#ÓcÁ
o- GP EEH0E†• *R6gZèMÈ ^ò:Ñ(+--ZçJ Ñ+ ^Òª `Ño±@# • _ = ' !ç ^Òª `Ñ?: S? #
' HDZöE†Z#Ž EX# fdE†ç *Ro±È :#/=MÖ • *R/ö Xf" _ EtXÄ»o±51 , z &•E†=! /=
Et• S??

SpælV7J @. : UB² ü.Š5 5@†.TMp MÐ=^" o±1Bç JV7J--Zç&*WJH<TM|E†ç *R/ o±"u:
S? # &"ç ? ³7KLVLQJWRP HMLQJ \RXFDQGRRYHLQJKWÛ 51b (Mdö+3OÿŽ1 Et• o±
(_ g{ / JRVÖZ-0d0d6go@ú-- ? (_ g{ / VÖVÖZ-. (Í \ EtJ, "W • o@*4% iÚ+ (- #Ž
#ÓcÁE†y U> ME† *» / 6 1BUB² 4GIV7J <_ g{ × @

> @

> S? 6' @. : =Xf2Ñò ^ , ¼]- U _ o±-Zç/ J! ?J. "ç#ŽJ. Ž"çD* &Hí/Ç • o± !-
51(, 6ž#-#: %èÀo± J! oÀ!XÈQç• o± J! o± †- U/Ç • 6 u ?6 # "ç VHIRXVXPSMPV
³' `İ DÉ, 'ó± VHNPHGFDDWQNRQLPPHGDMQ ³Í "u+3"= 'a †- U/Ç • 6 u ?

SpælV7J @2pç : S? 6' o±J. "ç#ŽJ. Ž"ç&I UB² †- U/Ç • 'ó± †- U/Ç • 6 u Et±
"i 6 > @g{ / LVNQVR\RXUERG ?6 # "ç VHIRXVXPSMPV³' `İ DÉ, 'a d *œ> @g{
/ LVNQVR\RXUERG ?;è0 -t 1r_ g{51 &@DDNRDGRFRU³ "=D! ! ['ó. : `İ ?»- < ©'İ †-
U 'ó±4GIV7J <_ g{ > @

×\$ @

> S? 6' @. : =Xf2Ñò ^ &\2 ^Òª Oÿ! 6 !« • -üÍ Pi]- EtO !• ?4%â# "L: ^O =Xf2Ò
ü4e:g51^..<2ªRRE†Òª 4». o±%â<^Û6 J, "W»5 o±%âf *»5 &\2 ?# 4øD3f Z'Àò Ð4e:g.
(Í /d(^Òª d=?%1 d Et_ 1è?

SpælV7J @. : J. "ç2Òì ³à\1 EtÒª 51"Ú.TM<'ð o±üÍ O!• Etud0 'x / o±³FRQLVWQF '
WJH<Òª Et&\2 ^à\1 o±³LVWVHNH WJH† - : `İ Xfo±^Û × @g{ / Et 0 DNHLVDKDEWJ'À Z«
^Òª 1 < b/ñ E#- KEú Pö±4GIV7J <_ g{ ×\$ @

> @

> S? 6' @ç. h~"ç"u2Ò2 DFVWVW<=ª ' Zïo±x MÛü-üZ° \RXFDQSUDFWHWHHP RYHªb

Oj! MAb!a ^ 3? • ., # "çDIZI^.(o±HOÿ! F !2_ÿ51HJ• "ç"ç. o±a+351y UE†!a ^ o±
-x &*^Û• "ç*R/ Oÿ! F !2:Ö^..J, "WE† • ZI;I KLMQ WHEGŽ VZIPPIQ&I#Ž^Qa 6 u ?
6 # "ço±• :#2Ö2 DFMLW ZI ?D3f ! 6' o±4v. ZB-Zç#Ž^Qa 1 <=a 6 u ?

SpoelV7J @;2pç :. S? 6' o±XÄá1BMÛE† , + 7 gšo±1 î f Xf3 L\$#i , #Ž^Qa 1
<=a 6 u ?MÑÉ6ç1€7 gš/ E†ud0ZI"ÓB²o±\$1 #Ž^Qa 1 <=a .d1 # K6 2dE†51)_ g{.U
/ E†PRMQ^Qa o±a ^ ' ZI±4GIV7J<_ g{ > @

%@

> S? 6' @ç. h~"ç2Öü -DFRYME†XÄ»o±u #ŽØ ¼ \y ^Qa ó- H HFLVQ ZLKRMLU@ñ
ç-(6g((² ² Z«b6 \%ý .Áo- N+5\RXDFRXQMEObÄZ«^Qa 5ö6 \¥o- PDNHLVPUHXQ@±
%d b5ö"ñOÿ• :#"1d=?%?J. Ž"ç @• "ñ ç \ E†^Qa ² ² iÚ+ (-o- JRD@NS o- WQV@#Ž
Ø ¼ \y 4e:go- WNDZDZLKRMLU@ J. "ç^Ý :g2Öü o±(, 6ž Oÿ#ŽØ ¼^ÝWML*ûfd
E†! <Q±¥J+3• D*HÓ, ?J. %Ý -"ç y UZöo o±(, W• D*HÓ, 6 "Í > ' 1 | <Q±Ö(, •
D*DZRo- SKRQd@ O H@ ^q øo-)DF7IPH=RRP ?

SpoelV7J @;2pç :. S? 6' o±Ñ "ç_ÿ6 Xf#ŽØ ¼ \y E#- Ko- ([HFLVQ ZLKRMLU
WHDZDZLKRMLU &KDRQWHSKRQHZLKDILHCG) DF7IPHRU=RRP ZLKDUDMLVbñ ç
516 "Í oñ ç51 ' 1 o±Bç Xf_ , #ŽØ ¼6 uE†_ g{ ?&JV7JU•@a6 Ø ¼E†8,,.ø- GFRM@±
H4%â / -x6,2ÖÌ GFRMLP %JV7Jo±0 <³ XfPi,ó , ¼\ ^Qa 'o±"Í # Zöo \ ^Qa f Xf#Ž
Ø ¼ \y J(# 6.: / .Á0 K 4GIV7J<_ g{ %@

6HMRQ,,, 7LDQDMRQ

\$MRXJKZHW RXUEWWRP HWP HVXUSDQMQVUDHO MLQRXWVRLWLDQD SDCQ-G

MÖ†! 6' @."ç < = D(# "ço±_ "ù!O < DMRJK. *pE†Z«gA,Zi D"ço±_ "ù# <"ç*RE†
=t_è! ? =t < =[MÖ†to±=Zi51 RXUSDQMQV± ZI51 UDHO MLQRXW± DV <^àZi. *p
4». A,Zi ?

ZÓ»! 6' @

z W RXUEWML W RCHVEHW\$1 , .Š-: D*E†FiZi±0 < 3?6Ö¼6 () !-!• ' ?^ÛÎ "ñ ç Ný
ZÓ< 3i +?1BOÿ'?

z MLQRXW0 < 3- ç6ÖHí4». o@ÓD!oA6 # 51oAMÖž51 o±^ÛÎ 2 E†51D=^ E†#JB² ?

