

南臺科技大學 107 學年度研究所考試入學招生考試

系組：海外組

准考證號碼：□□□□□□

科目：英文檢定 (201)

(請考生自行填寫)

注意事項	一、請先檢查准考證號碼、報考系(組)別、考試科目名稱，確定無誤後再作答。 二、所有答案應寫於答案紙上，否則不予計分。 三、作答時應依試題題號，依序由上而下書寫，作答及未作答之題號均應抄寫。
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I. Vocabulary: Choose the word or phrase to complete the sentence. (40%)

- The survey was based on a random sampling technique that accounted for such _____ as gender, age, and household income.
(A) appearance (B) symptom (C) characteristics (D) actions
- The inner city remains economically depressed while _____ areas are enjoying an economic boom.
(A) surrounding (B) enclosing (C) bounding (D) accompanying
- The investment seemed _____ sound at the time, but didn't take into account important factors which later led to a large loss.
(A) strategically (B) pointedly (C) fortunately (D) extremely
- Despite widespread _____ about a potential rise, interest rates remain flat and the Federal Reserve made no firm indication that it would raise them.
(A) integration (B) conservation (C) speculation (D) automation
- An official _____ concerning the merger of the two banks will be made at the press conference next Monday.
(A) negotiation (B) dedication (C) proposition (D) announcement
- My Japanese friend found Taiwanese food too _____ for her. As a result, she usually cooked by herself so that she could control the amount of oil in her meals.
(A) crunchy (B) homemade (C) unfavorable (D) greasy
- The volcano on the island has been unusually active over the past few days; many residents are afraid that it is going to _____ in no time.
(A) freeze (B) erupt (C) creep (D) perish
- The monkey became _____ and started making angry hissing sounds after one of his friends made a face at it.
(A) aggressive (B) embarrassing (C) ambitious (D) enlightened
- At the top of this skyscraper, you will have a(n) _____ view of the New York City.
(A) Academic (B) epidemic (C) scientific (D) panoramic
- Since the park became a popular tourist destination, there have been more than thirty reported cases of _____: the facilities were scratched, dented, or graffitied with offensive words.
(A) plagiarism (B) vandalism (C) enthusiasm (D) racism

11. The number of refugees in European countries such as Germany and France has _____ so drastically over the past few years that the refugee problems are making the public opinions divided.
 (A) resulted (B) reached (C) soared (D) selected
12. The corporation underwent a major restructuring three years ago, and _____ steadily ever since.
 (A) grew (B) had grown (C) has been growing (D) to grow
13. All full-time employees are _____ to participate in the health plan, which takes effect on the first day of this month.
 (A) eligible (B) elevated (C) elicited (D) elected
14. All clothing sold in Develyn's Boutique is made from natural materials and contains no _____ dyes.
 (A) immediate (B) synthetic (C) reasonable (D) assumed
15. His credit card was canceled because his monthly payments are several months _____.
 (A) due (B) overdue (C) update (D) overpaid
16. In addition to its favorable location, the hotel has many _____, including a large indoor swimming pool, sauna, whirlpool, and exercise rooms.
 (A) amenities (B) appliance (C) appendices (D) approaches
17. Several political scandals have _____ the mayor's popularity.
 (A) scrambled (B) diminished (C) weighed (D) facilitated
18. There are several health _____ associated with smoking.
 (A) transplants (B) perspectives (C) suitcases (D) hazards
19. Leaving a high-paying job to start a new business can be a(n) _____ but rewarding move.
 (A) sought-after (B) elective (C) risky (D) indispensable
20. The _____ of our research is looking at the effectiveness of traditional home remedies.
 (A) alternative (B) ranch (C) viewpoint (D) scope

II. Text completion: Select the best answer to complete the text. (20%)

Questions 21-25

Starting in the 1930s, LEGO's founder Ole Kirk Christiansen had created toys using wood and other materials. When a fire in 1960 __21__ the company's warehouse containing wooden toys, Christiansen decided to concentrate all efforts on one single product: the plastic LEGO brick. LEGO bricks are not associated with __22__, sex, political viewpoints, or controversial topics, and the company has deliberately sought to develop a "safe" image. __23__, during the last decades this image of LEGO has also come to present a problem, because children increasingly __24__ more teenage-like leisure activities, influenced by adult topics circulating in the media. For the growing generation of "tween"-agers, this safe image could easily be synonymous with "__25__."

21. (A) offered (B) enriched (C) destroyed (D) remodeled
 22. (A) care (B) flattery (C) patience (D) violence
 23. (A) Rarely (B) Hopefully (C) Absolutely (D) Nevertheless
 24. (A) run away (B) engage in (C) get rid of (D) take advantage of
 25. (A) heroic (B) childish (C) anxious (D) progressive

Questions 26-30

In gardens and forests around the world, there is more and more evidence that the earth's atmosphere is warming up. In North America, many species of birds which used to fly south for the cold winter months are staying in the north 26. A study of 77 gardens in Europe shows that flowers are blooming earlier and leaves are falling 27. In other words, as the atmosphere has gotten warmer, the growing season for vegetation has become a little bit longer each year. The 1990s were the warmest decade of the twentieth century, and the changes in air temperatures 28 ocean temperatures as well. Greenland's ice sheet has been 29 rapidly, and high ocean temperatures are also damaging the coral reefs. 30, there is no evidence that global warming is either slowing down or coming to an end.

26. (A) instead (B) well (C) away (D) upwards
27. (A) soon (B) then (C) later (D) once
28. (A) affected (B) stabilized (C) operated (D) measured
29. (A) thickening (B) melting (C) tearing (D) floating
30. (A) Otherwise (B) Eventually (C) Afterwards (D) Unfortunately

III. Reading comprehension: Choose one correct answer to each question. (40%)

Questions 31-40

Line

Supernovas are the most powerful and spectacular outbursts known in nature. What is called a Type II supernova is due to the collapse of a massive star, at least eight times as massive as the sun, that has used up its main nuclear fuel and produced a nickel-iron core. When this core can no longer support the pressure of the star's outer layers, it collapses to form a neutron star of immense density. Over 2,500 million tons of neutron star material could be packed into a matchbox. Its temperature is around 100,000 million degrees centigrade. Multitudes of neutrons are produced in the collapsed star, which pass directly through the star into space and this release of neutrons causes the core to respond with a shock wave that moves outwards. When it meets the material that is falling inward, the result is a catastrophic explosion. Sometimes most of the star's material is blown away, leaving only a small, incredible dense remnant that may be a neutron star or, in extreme cases, a black hole.

A supernova is often more than 50 million times as luminous as the sun. A supernova remnant (SNR) may be detectable as a pulsar, an example of which is the Crab Nebula, known to be a remnant of the supernova observed in the year 1054. The 1987 supernova in the Large Cloud of Magellan had a low peak luminosity by supernova standards, only about 250 million times that of the sun. At its brightest, the supernova shone as a star between magnitudes 2 and 3, even though it was 170,000 light-years away.

31. What is the main topic of the passage?
(A) The heat of supernovas
(B) The formation and power of a supernova
(C) The role of shock waves in a supernova
(D) The density of a neutron star
32. In word "it" in line 8 refers to the ____
(A) shock wave
(B) neutron star
(C) core of the collapse star
(D) catastrophic explosion

33. According to the passage, which of the following is NOT true about 1987 supernova?
- (A) It was located in the Large Cloud of Magellan.
 - (B) It was 170,000 light-years away.
 - (C) It shone as a star between magnitudes 3 and 4.
 - (D) It had a low peak luminosity.
34. In line 12, the word “detectable” is closest in meaning to _____
- (A) assumed
 - (B) known
 - (C) perceptible
 - (D) audible
35. Which of the following words can best be substituted for “remnant” in line 12?
- (A) Characteristic
 - (B) Relic
 - (C) Specter
 - (D) Remainder
36. The author of this passage is most likely _____
- (A) a botanist
 - (B) an economist
 - (C) a mathematician
 - (D) an astronomer
37. The word “Multitudes” in line 6 is closest in meaning to _____
- (A) magnitudes
 - (B) groups
 - (C) many
 - (D) temperature
38. The word “catastrophic” in line 9 is closest in meaning to _____
- (A) violent
 - (B) colorful
 - (C) scientific
 - (D) luminous
39. According to the passage, what marks the beginning of a supernova?
- (A) A star has grown too big.
 - (B) A star is born.
 - (C) The neutrons of a star become very dense.
 - (D) A massive star uses up its main nuclear fuel.
40. Where in the passage does the author state what is left of a star after a supernova occur?
- (A) Line 3-4
 - (B) Line 8-9
 - (C) Line 10-11
 - (D) Line 14-15

Questions 41-50

Line

Red Rock Canyon, part of the Red Rock Recreation Lands in Nevada, is an escarpment of crimson Aztec sandstone cliffs and canyon walls that reveal the geologic history of the area. Bands of sediment layers tell of a deep-sea bed that 400 million years ago rose eastward to a shoreline in present-day western Utah. As the ancient sea grew progressively more shallow, about 225 million years ago, marine limestone and shales were overlaid by sediments washed in from emerging land areas. As the water in the shallow inland seas evaporated, salts and minerals were deposited in thick beds, and fluctuating shorelines created intermixed beds of limestone, shales, and minerals. Sediments from this period gave the canyon its name. Their red color was created from the weathering of iron compounds within. About 180 million years ago, the area became arid and was covered in sand dunes more than 2,000 feet deep, which became cemented into the Aztec sandstone that is prominent in the canyon today. Its alternating hues of red, yellow, and white are believed to have resulted from groundwater percolating through the sand and leaching out the oxidized iron.

The most significant geologic feature of the area is the Keystone Thrust Fault, a fracture in the earth's crust. Sixty-five million years ago, intense pressure thrust one rock plate over another, a phenomenon that can clearly be seen in the contrasting bands of gray limestone and red sandstone beneath it. The Keystone is one of the most easily identifiable thrust faults to be found anywhere.

41. With what topic is the passage mainly concerned?
- (A) The creation of the Keystone Thrust Fault.
 - (B) How Red Rock Canyon acquired its name.
 - (C) The formation of Aztec sandstone.
 - (D) The geologic history of Red Rock Canyon.
42. The author of this passage is most likely ____
- (A) an animal rights activist
 - (B) a geologist
 - (C) a public relation writer
 - (D) a public works engineer
43. The word "progressively" in line 4 is closest in meaning to ____
- (A) suddenly
 - (B) mysteriously
 - (C) naturally
 - (D) gradually
44. Which of the following can be concluded from this passage?
- (A) Red Rock Canyon was created in a relatively short time span.
 - (B) The location of a rock layer is not always an indication of its age.
 - (C) The expansion of the sea played a significant role in the creation of Red Rock Canyon.
 - (D) Emerging land areas eventually caused the sea to evaporate.
45. In line 17, the word "identifiable" could best be replaced by which of the following?
- (A) Observable
 - (B) Significant
 - (C) Discovered
 - (D) Created

46. According to the passage, the red of the canyon walls is primarily a result of ____
(A) groundwater percolating through the sand
(B) the weathering of iron compounds
(C) the evaporation of the inland sea
(D) intense pressure on rock plates
47. The word "fluctuating" in line 7 is closest in meaning to ____
(A) intermixing
(B) flooding
(C) changing
(D) withdrawing
48. The word "arid" in line 10 is closest in meaning to ____
(A) dead
(B) uninhabited
(C) reddened
(D) dry
49. The word "Its" in line 11 refers to ____
(A) Aztec sandstone
(B) shorelines
(C) cement
(D) hues
50. According to the passage, all of the following remained immediately after the sea evaporated EXCEPT ____
(A) shale
(B) sandstone
(C) limestone
(D) minerals