



SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

SELECTION TEST (I) - 2018
Higher National Diploma in Information Technology (HNIDIT)

Instructions for Candidates:

No. of questions : 60

Answer all questions

No. of pages : 12

Time : 1 1/2 hrs

Index No.

Underline the correct answer from the list of answers given below

1. Which set of symbols should replace the question marks?

A
B
C
D
E

(a) A (b) C (c) D (d) E

2. What is the value of $-26 - -37$?
(a) 10 (b) 12 (c) 11 (d) 13

3. A company hires a fleet of buses to transport its workforce to a conference. If 689 workers attended the conference, and each bus seats 35 passengers, how many buses are required?
(a) 30 (b) 20 (c) 21 (d) 25

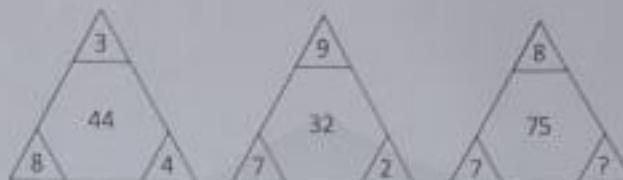
4. What number should replace the question mark?
5, 16, 49, ?, 445
(a) 48 (b) 168 (c) 148 (d) 138

5. Which numbers should replace the question marks?

1, 50, 6, 45, 11, 40, 16, 35, 21, ?, ?

(a) 33, 23 (b) 36, 26 (c) 28, 24 (d) 30, 26

6. What number should replace the question mark?



(a) 5 (b) 7 (c) 3 (d) 4

7. Today is Wednesday. What will the fourth day from yesterday be?

(a) Monday (b) Saturday (c) Tuesday (d) Thursday

8. 87 kg of potatoes are distributed in two boxes. One box weighs 11 kg less than the other one. How many kilograms of potatoes does the lighter box contain?

(a) 48 (b) 38 (c) 56 (d) 49

9. 12593 is to 35291 and 29684 is to 46982 therefore 72936 is to?

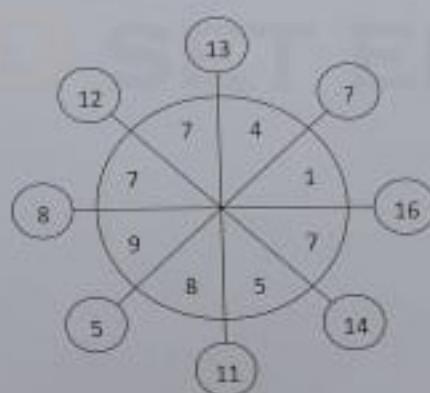
(a) 59537 (b) 69537 (c) 69237 (d) 59237

10. Which two letters come next?

A Z B Y D W G T ??

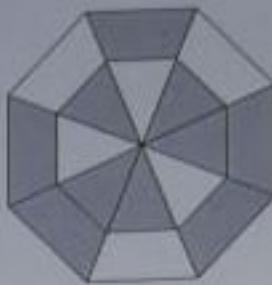
(a) L Q (b) K P (c) K R (d) M P

11. What number should replace the question mark?



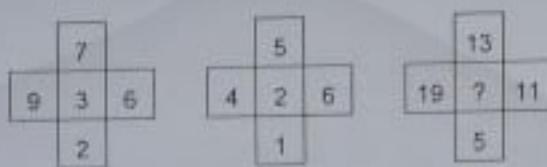
(a) 11 (b) 13 (c) 14 (d) 17

12. What percentage of the figure is shaded?



(a) 1/8 (b) 3/8 (c) 5/8 (d) 7/8

13. What number should replace the question mark?



(a) 10 (b) 6 (c) 11 (d) 13

14. How many minutes is it before 12 noon if 1 hour 39 minutes ago it was twice as many minutes past 8 am?

(a) 57 (b) 47 (c) 49 (d) 33

15. Which two symbols are missing?

- # # - ? # - # # - = #

- # # - ? # - # # - = # # -

- ? # - # # - # - # # - ?

- # # - =

(a) # (b) - (c) # # (d) = #

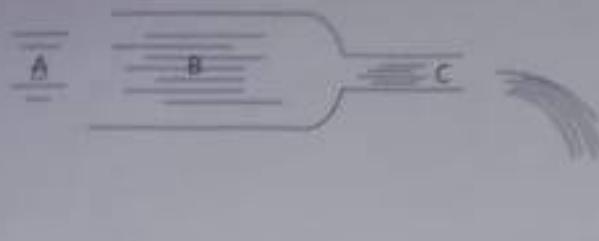
16. Anil has four times as many as Jagath, and Jagath has three times as many as Sadun.

Altogether they have 192. How many has each of Anil, Jagath, Sadun?

(a) 144, 36, 12 (b) 122, 34, 22 (c) 138, 39, 15 (d) 146, 32, 14

17. A large volume of water is gushing through a pipe which narrows at the outlet. At which point, A, B, C or D will the water flow fastest?

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(a) A (b) B (c) C (d) D

18. If 7 spiders make 7 webs in 7 days, then how many days are needed for 1 spider to make 1 web?

(a) 14 (b) 7 (c) 1 (d) 4

19. Gordon is twice as old as Tony was when Gordon was as old as Tony is now.

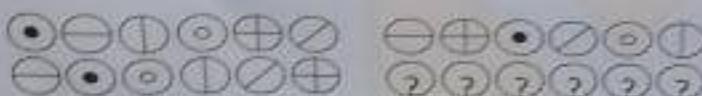
The combined age of Gordon and Tony is 112 years. How old are Gordon and Tony now?

(a) 64 and 48 (b) 58 and 54 (c) 62 and 50 (d) 60 and 52

20. A company produces 864 white, black and red motor vehicles per week in the ratio 1 : 5 : 3. How many black cars does the company produce per week?

(a) 420 (b) 580 (c) 480 (d) 460

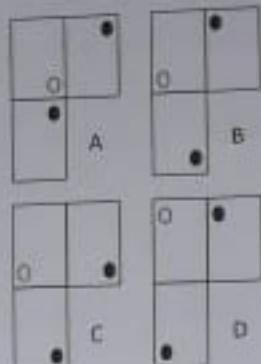
21. Which set of symbols should replace the question marks?



A $\oplus \ominus \otimes \odot \oplus \ominus$
 B $\ominus \otimes \oplus \odot \odot \oplus$
 C $\odot \oplus \otimes \ominus \odot \odot$
 D $\oplus \ominus \otimes \odot \oplus \odot$
 E $\odot \odot \odot \oplus \otimes \odot$

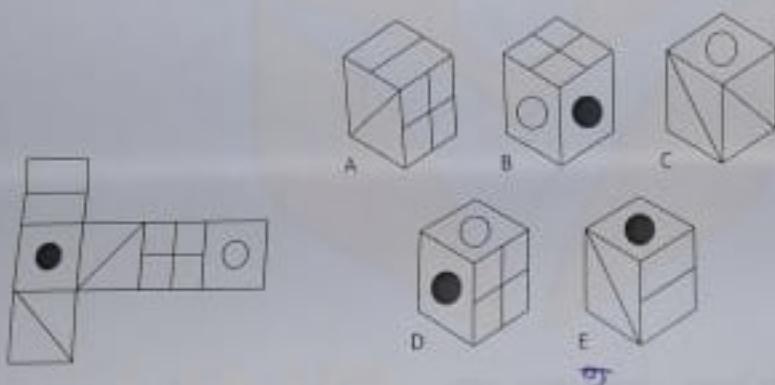
(a) D (b) A (c) B (d) E

22. Which is the missing section?



(a) C (b) D (c) A (d) B

23. When the figure below is folded to form a cube, just two of the following can be produced. Which two?



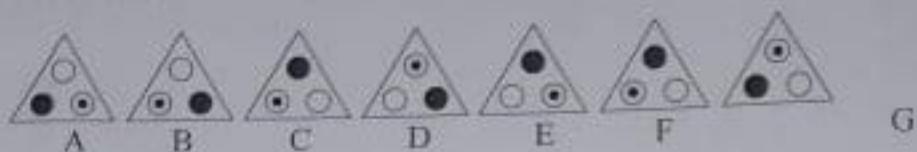
(a) D and E (b) A and E (c) B and C (d) C and E

24. Each set of nine numbers relates to the other in a certain way. Work out the logic behind the numbers in the left-hand box in order to determine which number is missing from the right-hand box.

2	3	6		1	1	3
4	2	7		4	?	9
5	3	9		7	1	9

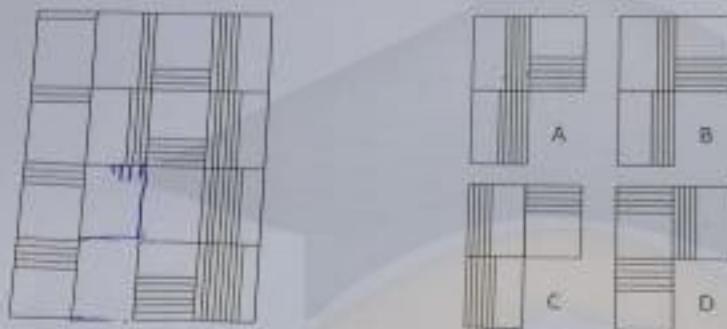
(a) 2 (b) 3 (c) 4 (d) 6

25. Which does not belong in this sequence?



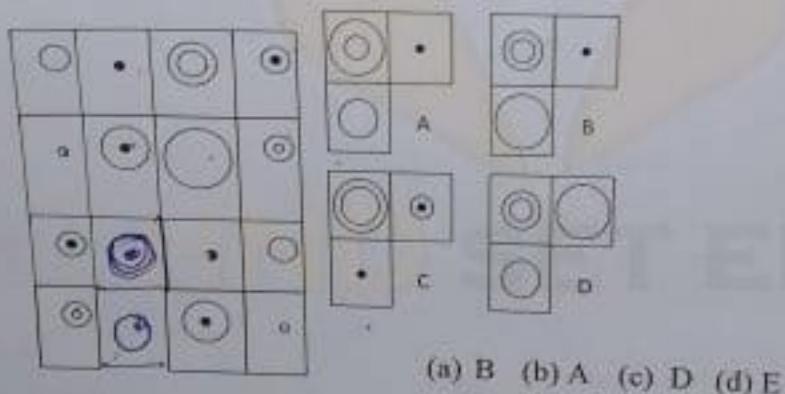
(a) C (b) B (c) A (d) E

26. Which is the missing section?



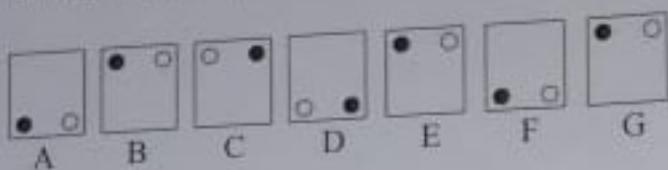
(a) C (b) B (c) D (d) A

27. Which is the missing section?



(a) B (b) A (c) D (d) E

28. Which does not belong in this sequence?

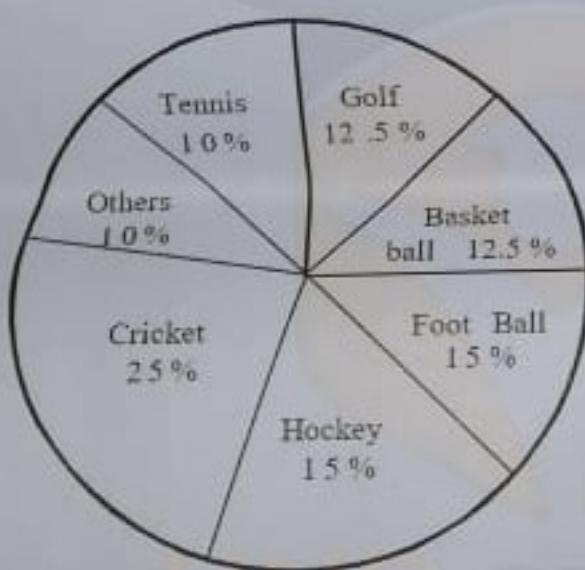


(a) D (b) E (c) B (d) F

29. The average of three numbers is 29. The average of two of these numbers is 38. What is the third number?
 (a) 10 (b) 11 (c) 12 (d) 13

Directions (Qs. 30-34) the pie-chart drawn below shows the spending of a country on various sports during a particular year. Study the pie-chart carefully and answer the questions given below it.

PERCENT OF MONEY SPENT ON VARIOUS SPORTS FOR ONE YEAR



30. If the total amount spent on sports during the year was Rs. 15000000, the amount spent on cricket and hockey together was
 (a) Rs. 3750000 (b) Rs. 6000000 (c) Rs. 5000000 (d) Rs. 2500000

31. Out of the following, the country spent the same amount on
 (a) Football and Hockey (b) Hockey and Tennis (c) Cricket and Football (d) Golf and football

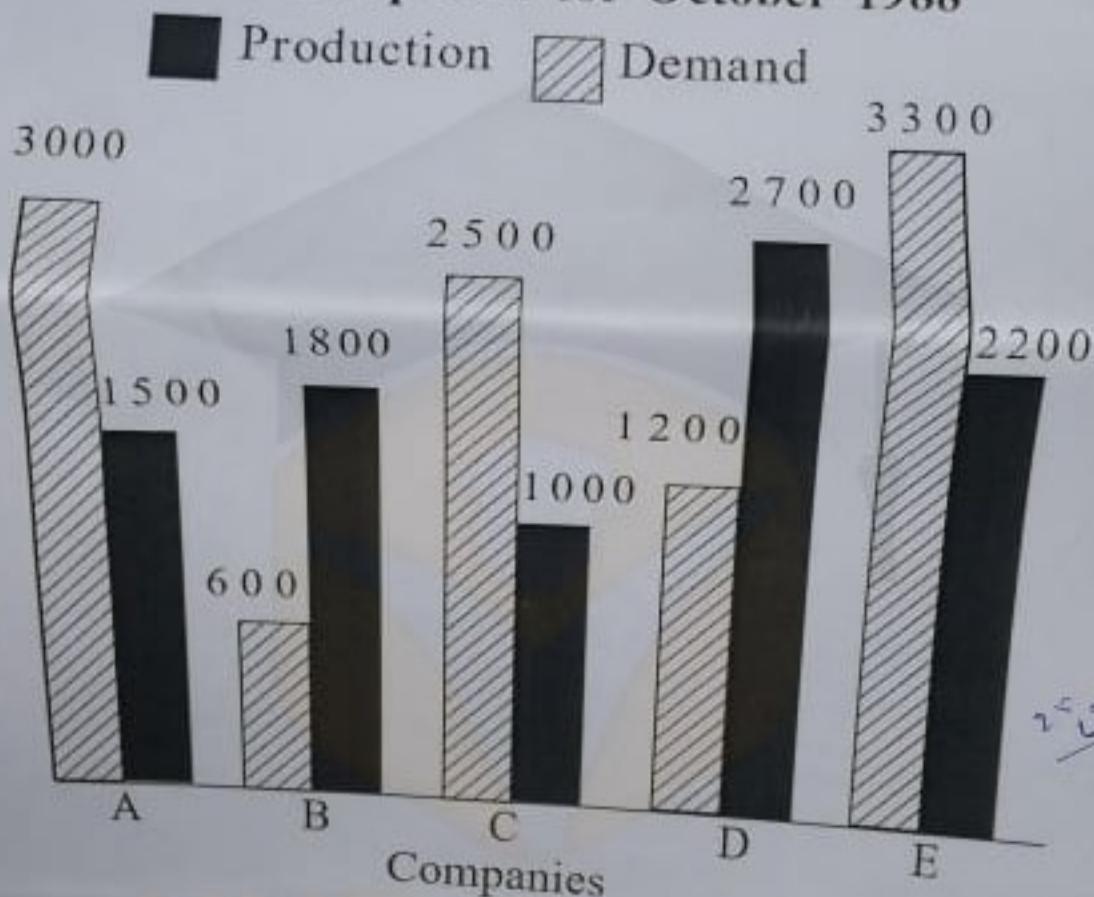
32. Pie-chart shows that the most popular game of the country is (on the basis of money spent)
 (a) Football (b) Cricket (c) Basketball (d) Hockey

33. The ratio of the total amount spent on football to that spent on hockey is
 (a) 15:1 (b) 1:15 (c) 1:1 (d) 3:20

34. If the total amount spent on sports during the year was Rs. 12000000, how much was spent on basketball?
 (a) Rs. 950000 (b) 1500000 (c) Rs. 1200000 (d) Rs. 1000000

Directions (35-39) Study the following graph carefully and answer the following questions.

Demand and Production of Colour T.V.s of Five Companies for October 1988



35. What is the ratio of companies having more demand than production to those having more production than demand?
(a) 2:3 (b) 3:2 (c) 2:2 (d) 4:1

36. What is the difference between average demand and average production of the five companies taken together?
(a) 280 (b) 400 (c) 138 (d) 1400

37. The production of company D is approximately how many times that of the production of the company A?
(a) 1.5 (b) 2.5 (c) 1.8 (d) 1.11
TC

38. The demand for company 'B' is approximately what percent of the demand for company 'C'?
(a) 4 (b) 60 (c) 20 (d) 24

39. If company 'A' desire to meet the demand by purchasing surplus T.V. sets from a single company, which one of the following companies can meet the need adequately?
(a) D (b) C (c) B (d) None of these

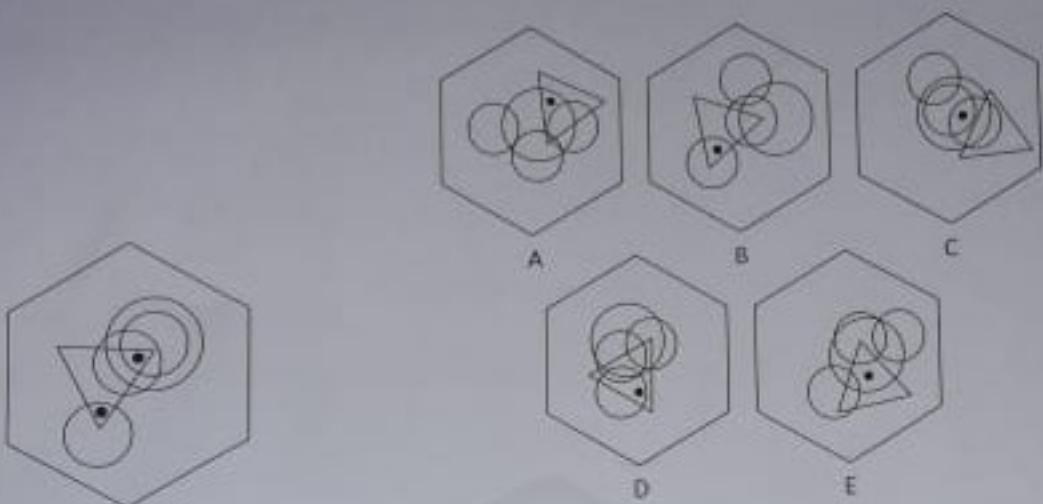
40. Two trains, each 100 m long are moving in opposite directions. They cross each other in 8 seconds. If one is moving twice as fast the other, the speed of the faster train is
(a) 60 km/hr (b) 66 km/hr (c) 72 km/hr (d) 90 km/hr

41. What is the largest 4 digit number exactly divisible by 88?
(a) 9900 (b) 9944 (c) 9988 (d) 9922

42. In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?
(Vowels - A, E, I, O, U)
(a) 610 (b) 800 (c) 720 (d) 1400

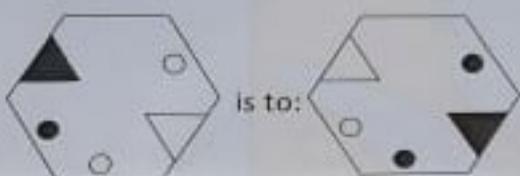
43. At a party, everyone shook hands with everybody else. There were 66 handshakes. How many people were at the party?
(a) 11 (b) 12 (c) 14 (d) 22

44. To which hexagon below can a dot be added so that both dots then meet the same conditions as the two dots in the hexagon above?

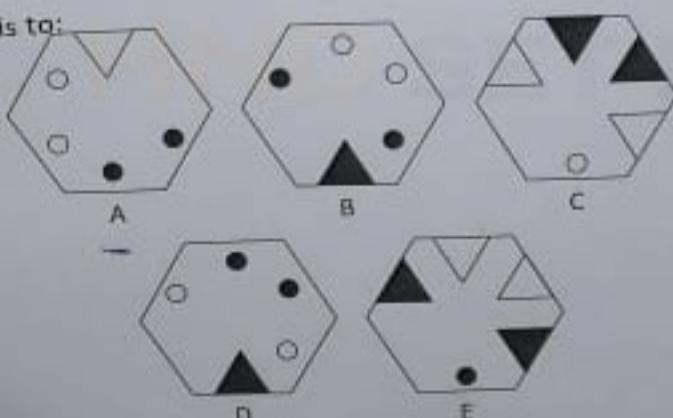


(a)C (b) D (c) A (d) E

45.



as



(a)C (b) A (c) B (d) E

46. What number should replace the question mark?



(a)2 (b) 3 (c) 5 (d) 8

47. A container contains 40 liters of milk. From this container 4 liters of milk was taken out and replaced by water. This process was repeated further two times. How much milk in liters is now contained by the container?

(a)30 (b) 26 (c) 29.16 (d) 28

48. Two trains, each 100 m long are moving in opposite directions. They cross each other in 8 seconds. If one is moving twice as fast the other, the speed of the faster train is

(a)72 km/h (b) 66 km/h (c) 90 km/h (d) 60 km/h

49. Logically, what two numbers should replace the question marks?

12, 34, 10, 11, 12, 5, 6, 7, 13, 14, ?, ?

(a)16, 13 (b) 15, 11 (c) 17, 12 (d) 15, 10

50. If one-third of one-fourth of a number is 15, then three-tenth of that number is:

(a)54 (b) 35 (c) 46 (d) 72

51. Firewall in computer is used for

(a)Security (b) Data Transmission (c) Authentication (d) Monitoring

52. Which of the following is not an operating system

(a)DOS (b) Mac (c) C (d) Linux

53. A computer use which type of number system to calculate and to store data

(a)Decimal (b) Octal (c) Binary (d) Hexadecimal

54. Which one is the latest release of Windows Client Operating System?

(a)Windows XP (b) Windows (c) Windows 8 (d) Windows 10

55. Which is an Input device

(a) Monitor (b) Printer (c) Mouse (d) None of the above

56. Which one is not a part of a computer device or system?

(a) Mother Board (b) CPU (c) Keyboard (d) Scanner

57. USB Port stands for

(a) United Serial Bus Port (b) Universal Serial Bus Port (c) Universal Sequential Bus Port (d) Universal Serial BIOS Port

58. "IOT" refers to

(a) Internet of Things (b) Intranet of Teleservices (c) International Organization of Teleservices (d) Internet Organization of Telecommunication

59. A computer on Internet is uniquely identified by

(a) Memory address (b) E-mail address (c) IP address (d) Virtual address

60. Which of the following operations is not performed by a computer

(a) Control (b) Output (c) Understand (d) Input

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