



SHRI VISHWAKARMA SKILL UNIVERSITY

(A State Skill University, setup by an Act of Legislature in 2016)

RECRUITMENT EXAMINATION

Advertisement No. HVSU/18/ENT /007 dt. 07/11/2018

JUNIOR PROGRAMMER

A

Max. Marks : 90 Marks

Time : 90 Minutes

JUNIOR PROGRAMMER – SECTION 1

- Q1. In programming, a series of logically ordered steps that lead to a required result is called
- A) a compiler
 - B) a program
 - C) a data structure
 - D) an algorithm
- Q2. What kind of languages are Cobol, Java, C# and Basic?
- A) 1GL
 - B) 2GL
 - C) 3GL
 - D) 4GL
- Q3. What will be the outcome of the following code in most programming languages:
- ```
x = 3
y = 7
z = x / (y-7)
```
- A) runtime error
  - B) syntax error
  - C) logic error
  - D) compiler error
- Q4. Today is Tuesday. It is raining. Which of the following is True?
- A) Raining XOR Tuesday
  - B) Raining AND Tuesday
  - C) NOT (Raining OR Tuesday)
  - D) All of the above
- Q5. AND, OR and NOT are logical operators. What data type is expected for their operands?
- A) integer
  - B) boolean
  - C) decimal
  - D) character

Q6. Which is a working solution for producing the following output: 1 4 9 16 25 ?

| A           |
|-------------|
| N=0         |
| while N < 5 |
| print N * N |
| N = N + 1   |

| B           |
|-------------|
| N=0         |
| while N < 5 |
| N = N + 1   |
| print N * N |

| C            |
|--------------|
| N=1          |
| while N <= 5 |
| N = N + 1    |
| print N * N  |

| D           |
|-------------|
| N=1         |
| while N = 5 |
| N = N + 1   |
| print N * N |

- A) A
- B) B
- C) C
- D) D

Q7. Two main measures for the efficiency of an algorithm are \_\_\_\_\_.

- A) processor and memory.
- B) complexity and capacity.
- C) time and space.
- D) data and space.

Q8. The term \_\_\_\_\_ means the ability to take many forms.

- A) Inheritance
- B) Polymorphism
- C) member function
- D) encapsulation

Q9. At which point of time a variable comes into existence in memory is determined by its

- A) Scope
- B) Storage class
- C) Data type
- D) All of the above

Q10. Which of the following is not an arithmetic operation?

- A)  $a *= 10;$
- B)  $a /= 10;$
- C)  $a != 10;$
- D)  $a \% = 10;$

Q11. Exception handling is targeting at

- A) run-time error
- B) compile time error
- C) logical error
- D) all of the above

Q12. The mechanism that binds code and data together and keeps them secure from the outside world is known as

- A) Abstraction
- B) Inheritance
- C) Encapsulation
- D) Polymorphism

Q13. Dynamic binding is

- A) Resolving the function call at compile time
- B) Defining binding statically
- C) Resolving function call at run time
- D) None of the above

Q14. Which of the following 'for' loops will be an infinite loop?

- A) for( ; ; )
- B) for(i=0; i<1; i--)
- C) for(i=0; ; i++)
- D) All of the above

Q15. An assembly language consists of following which type of instructions.

- A) Mnemonics
- B) OpCodes
- C) Operands
- D) Fields

Q16. Java compiler produces

- A) Byte code
- B) object code
- C) executable code
- D) none

Q17. \_\_\_\_\_ is reserved keyword in java.

- A) Abstract.
- B) Extends.
- C) Package.
- D) All the above.

Q18. Which of the following is not assignment operator?

- A) +=
- B) ==
- C) %=
- D) =

Q19. JDBC application must import \_\_\_\_\_ package.

- A) io.
- B) sql.
- C) event.
- D) util.

Q20. \_\_\_\_\_ supports abstraction at the function level

- A) Bottom-up approach
- B) Top-down approach
- C) Structured
- D) Object oriented

Q21. In a class, the behavior of an object is identified by a \_\_\_\_\_.

- A) functions
- B) classes
- C) data
- D) attributes

Q22. A class belongs to a class is called \_\_\_\_\_.

- A) alpha class
- B) meta class
- C) beta class
- D) subordinate class

Q23. Which of the following cannot be friend?

- A) Function
- B) Class
- C) Object
- D) Operator function

Q24. Which data structure is used in breadth first search of a graph to hold nodes?

- A) Stack.
- B) Queue.
- C) Tree.
- D) Array

Q25. In which of the following algorithm, the smallest element is found first and placed in the first position, then the next smallest in the second place, and so on?

- A) Merge sort.
- B) Selection sort.
- C) Insertions sort.
- D) Radix sort.

Q26. The elements are removed from a stack in \_\_\_\_\_ order.

- A) hierarchical.
- B) inorder.
- C) reverse.
- D) alternate.

Q27. Numerical methods and graphical methods are specialized procedures used in

- A) social statistics
- B) business statistics
- C) descriptive statistics
- D) education statistics

Q28. Match the following:

- A. Newton-Raphson
- B. Runge-kutta
- C. Gauss-seidel
- D. Simpson's Rule

- 1. Integration
- 2. Root finding
- 3. Ordinary Differential Equations
- 4. Solution of system of Linear Equations

The correct sequence is<sup>3</sup>

- A) A2-B3-C4-D1
- B) A3-B2-C1-D4
- C) A1-B4-C2-D3
- D) A4-B1-C2-D3

Q29. Errors may occur in performing numerical computation on the computer due to

- A. Rounding errors
- B. Power fluctuation
- C. Operator fatigue
- D. All of these

Q30. A relational database consists of a collection of

- A) Tables
- B) Fields
- C) Records
- D) Keys

Q31. A \_\_\_\_\_ in a table represents a relationship among a set of values.

- A) Column
- B) Key
- C) Row
- D) Entry

Q32. The term \_\_\_\_\_ is used to refer to a row.

- A) Attribute
- B) Tuple
- C) Field
- D) Instance

Q33. For each attribute of a relation, there is a set of permitted values, called the \_\_\_\_\_ of that attribute.

- A) Domain
- B) Relation
- C) Set
- D) Schema

Q34. A \_\_\_\_\_ is a query that retrieves rows from more than one table or view

- A) Start
- B) End
- C) Join
- D) All of the mentioned

Q35. Which join refers to join records from the write table that have no matching key in the left table are include in the result set

- A) Left outer join
- B) Right outer join
- C) Full outer join
- D) Half outer join

Q36. Which operation are allowed in a join view

- A) UPDATE
- B) INSERT
- C) DELETE
- D) All of the mentioned

Q37. Which of the following creates a virtual relation for storing the query ?

- A) Function
- B) View
- C) Procedure
- D) None

Q38. If we want to retain all duplicates, we must write \_\_\_\_\_ in place of union

- A) Union all
- B) Union some
- C) Intersect all
- D) Intersect some

Q39. Which forms has a relation that possesses data about an individual entity

- A) 2NF
- B) 3NF
- C) 4NF
- D) 5NF

Q40. Referential integrity is directly related to

- A) Relation key
- B) Foreign key
- C) Primary key
- D) Candidate key \*

Q41. In an E-R diagram ellipses represents

- A) Entity sets
- B) relationship among entity sets
- C) attributes
- D) link in attributes & entity sets

Q42. The wildcard in a WHERE clause is useful when?

- A) An exact match is necessary in a SELECT statement.
- B) An exact match is not possible in a SELECT statement.
- C) An exact match is necessary in a CREATE statement.
- D) An exact match is not possible in a CREATE statement.

Q43. Which one of the following sorts rows in SQL?

- A) ARRANGE BY
- B) SORT BY
- C) ORDER BY
- D) GROUP BY

Q44. The first event triggered in an .aspx page is \_\_\_\_\_

- A) Page\_Init()
- B) Page\_Load()
- C) Page\_Render()
- D) Page\_Click()

Q45. File Extension for web controls in .NET Framework is \_\_\_\_\_

- A) .ascx
- B) .aswx
- C) .asmx
- D) .aspx

Q46. Which of the following is an alternative way of displaying text on web page ?

- A) asp:text
- B) asp:label
- C) asp:listitem
- D) asp:button

Q47. The \_\_\_\_\_ element is located within the ... tags.

- A) hr.
- B) h6.
- C) title.
- D) end.

Q48. The \_\_\_\_\_ property of the CSS allows absolute positioning.

- A) absolute.
- B) position.
- C) relative.
- D) element.

Q49. \_\_\_\_\_ is an XSLT element that applies the element's contents to each of the nodes specified in the attribute select.

- A) For.
- B) For-each.
- C) Each-for.
- D) Each.

Q50. \_\_\_\_\_ is the art of combining HTML, JavaScript, DOM and CSS.

- A) COM.
- B) DHTML.
- C) XSLT.
- D) XML parser.

•  
**General English**

- Q51. Choose the one which best expresses the meaning of the given word:  
**PERILOUS**  
(A) Hazardous (B) Rigorous  
(C) Resilient (D) Requisite
- Q52. Find out which part of the sentence has an error:  
In world of ours (a) / one has to compete (b) / for almost everything. (c) / No error (d)  
(A) (a) (B) (b)  
(C) (c) (D) (d)
- Q53. Pick the right meanings of the following **idiom and phrase**:  
**Lean and mean**  
(A) To destroy something  
(B) To create something  
(C) Using only what is necessary  
(D) Not afraid dangerous situations
- Q54. Choose the one which is most opposite in meaning to the given word:  
**Opprobrious**  
(A) Respectful  
(B) Miscible  
(C) Inspiring  
(D) Imitable
- Q55. Fill in the blank with suitable article:  
He is \_\_\_\_\_ honest man.  
(A) an (B) a (C) the (D) no article
- Q56. Fill in the blank:  
**The right to livelihood is an \_\_\_\_\_ facet of the right to life.**  
(A) unimportant  
(B) integral  
(C) utmost  
(D) ideal
- Q57. **Directions:** In question given below, the first and the last sentences are numbered 1 and 6. Remaining sentences are named P, Q, R and S. These four sentences are not given in their proper order. Read the sentences and find out which of the four combinations is correct:  
1: The effect of books is twofold.

P: Unless you can write it down, your poem or idea will probably die when you do.

Q: They preserve knowledge in time and spread it in space.

R: Suppose, for example, that you think of an important idea or a beautiful poem.

S: Even if you do write it down, it perishes soon as the mice eat the paper.

6: But once printing had been discovered, it did not matter how soon you died or how many copies of what you had written were eaten by mice.

(A) QPRS                      (B) SRPQ                      (C) QRPS                      (D) SPRQ

Q58. Choose the correct option to complete the sentence given below:

I \_\_\_\_\_ an appointment with the dentist soon.

(A) have made

(B) will make

(C) made

(D) make

Q59. Pick out the most effective word from the given options to fill in the blank to make the sentence meaningfully complete:

\_\_\_\_\_ works of reference are valuable as Encyclopedia, Britannica.

(A) A few

(B) Few

(C) The few

(D) Fewer

Q60. **Directions:** Read the following passage to answer the given question based on it-

What needs to be set right is our approach to work. It is a common sight in our country of employees reporting for duty on time and at the same time doing little work. If an assessment is made of time they spent in gossiping, drinking tea, eating "pan" and smoking cigarettes, it will be shocking to know that the time devoted to actual work is negligible. The problem is the standard which the leadership in administration sets for the staff. Forget the ministers because they mix politics and administration. What do top bureaucrats do? What do the below down officials do? The administration set up remains weak mainly because the employees do not have the right example to follow and they are more concerned about being in the good books of the bosses than doing work.

**The employees in our country**

- (A) are quite punctual but not duty conscious
- (B) are not punctual, but somehow manage to complete their work
- (C) are somewhat lazy but good natured
- (D) are not very highly qualified

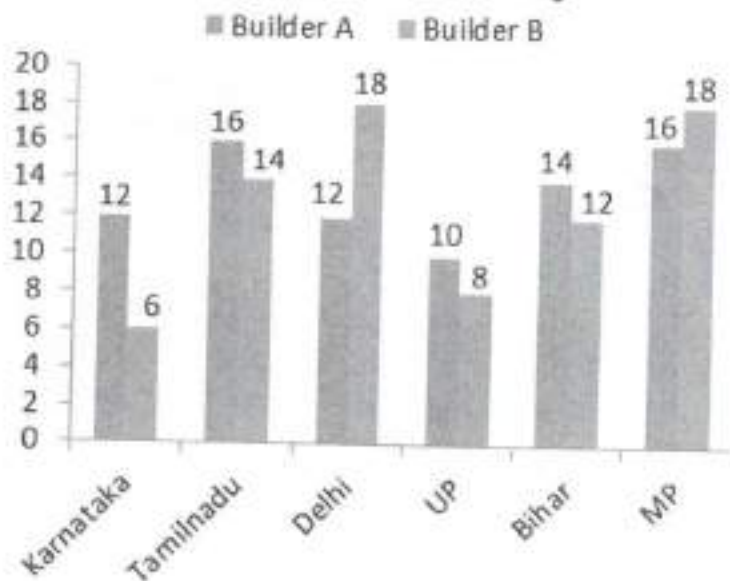
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**General Aptitude**

- Q61. In a coded message, SLOW MOVE, GET BACKWARDS, FIRE AWAY is written as VFMD ZMWE, BEN PCTLDCOXU, QHOE CDCI. Based on this coding scheme, spot the code for following word:  
**BRICKS**  
(A) POHTUL  
(B) POHLLU  
(C) POHTLU  
(D) POHULT
- Q62. Virendra's house is 30 m to the left of the Temple, which is 40 m to the north of the Church. One day, Virendra takes the road which is parallel to the temple-Church road and walks for 50 m before turning to his right. He further walks for 20 m and reaches the Gym. **What is difference between the straight distance between Virendra's house to Church and Temple to Gym?**  
(A) 20.7 m                      (B) 50 m                      (C) 37.7 m                      (D) 70.7 m
- Q63. **Insert : Extract :: Mighty : ?**  
(A) Thin  
(B) Strong  
(C) Frail  
(D) Feeble
- Q64. Pointing to Manjusha in the photograph, Ravi said, "She is the daughter of my grandfather's only son". How is Manjusha related to Ravi?  
(A) Sister  
(B) Brother-in-law  
(C) Son  
(D) Mother

**Direction: Study the following bar chart and table chart carefully and answer the question given beside.**

Following bar graph shows the amount of money allocated (in lakh) to 2 builders by six different state governments for various government projects such as House building, Road development, Bridge development and Metro projects.



The table shows the spending of each builder in various development aspects every year.

| Project | Builder A | Builder B |
|---------|-----------|-----------|
| House   | 15%       | 35%       |
| Roads   | 35%       | 20%       |
| Bridge  | 20%       | 30%       |
| Metro   | 30%       | 15%       |

Q65. If the amount allocated to builder A for Metro development in Kerala is 25% of total amount allocated to him for Roads development in given 6 states and amount allocated to builder B for House development in Kerala is 30% of total amount allocated to him for Bridge development in given 6 states, then find the difference between the amount allocated to builder A for Metro development in Kerala and amount allocated to builder B for House development in Kerala.

(A) Rs. 25000

(B) Rs. 36000

(C) Rs. 16000

(D) Rs. 9000

Q66. Complete the series: 18, 9, 9, 13.5, 27, ?

(A) 57.5

(B) 67.5

(C) 47.5

(D) 37.5

Q67. Richard is fifteenth from the front in a column of boys. There were thrice as many behind him as there were in front. How many boys are there between Richard and the seventh boy from the end of the column?

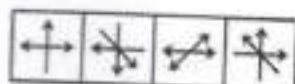
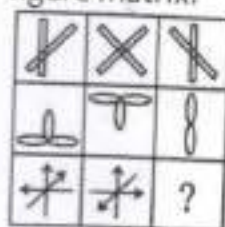
- (A) 33  
(B) 34  
(C) 35  
(D) Data inadequate

Q68. In the following question, a statement is given followed by some conclusions. Without resolving anything yourself, choose the conclusion which logically follows from the statement.

**Statement - One must work hard to score well in the examination.**

- (A) Examination is not related with hard work.  
(B) All those who work hard, never score good.  
(C) Hard-working person is a stupid person.  
(D) Without hard-work one is bound to fail.

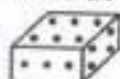
Q69. Select a suitable figure from the four alternatives that would complete the figure matrix.



(1) (2) (3) (4)

- (A) 1 (B) 2 (C) 3 (D) 4

Q70. Two positions of a block are shown below: When six is at the bottom, what number will be at the top?



(i)

(ii)

- (A) 2 (B) 3 (C) 4 (D) 5

Q71. Direction: Study the following arrangement carefully and answer the following question given below:

X Z 9 / E 4 + 5 D A % O P 3 I G @ L 1 W x 7 F S U 8 \$ C 2 ?

How many vowels are between first even number from the left end and first odd number from the right end?

- (A) 2 (B) 3 (C) 4 (D) None

- Q72. A clock loses 5 minutes every hour and was set right at 11AM on a Monday. When will it show the correct time again?  
 (A) 11AM on Sunday  
 (B) 11AM on Monday  
 (C) 11AM on Tuesday  
 (D) 11AM on Wednesday
- Q73. A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present?  
 (A) 32 years (B) 36 years (C) 40 years (D) 48 years
- Q74. On selling 17 balls at Rs.720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:  
 (A) Rs. 45 (B) Rs.50 (C) Rs. 55 (D) Rs. 60
- Q75. P is able to do a piece of work in 15 days and Q can do the same work in 20 days. If they can work together for 4 days, what is the fraction of work left?  
 (A)  $\frac{8}{15}$  (B)  $\frac{7}{15}$  (C)  $\frac{11}{15}$  (D)  $\frac{2}{11}$
- Q76. A man takes 5 hours 45 min in walking to a certain place and riding back. He would have gained 2 hours by riding both ways. The time he would take to walk both ways :  
 (A) 11hrs (B) 8 hrs 45 min  
 (C) 7 hrs 45 min (D) 9 hrs 20 min
- Q77.  $\{(481 + 426)2 - 4 \times 481 \times 426\} = ?$   
 (A) 3025 (B) 4200 (C) 3060 (D) 3210
- Q78. N is the greatest number which divides 1305, 4665 and 6905 and gives the same remainder in each case. What is the sum of the digits in N?  
 (A) 3 (B) 4 (C) 5 (D) 6
- Q79. How many days are there in x weeks x days?  
 (A)  $14x$  (B)  $8x$  (C)  $7x^2$  (D)  $7x$
- Q80. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?  
 (A) 6.25 (B) 5.5 (C) 7.4 (D) 5.6

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**JUNIOR PROGRAMMER – SECTION IV**

- Q81. Which state Chief Minister launched 'One Family One Job' scheme on January 12, 2019?
- A) Odisha
  - B) Telangana
  - C) Sikkim
  - D) Meghalaya
- Q82. The first Asian Games were held in
- A) Jakarta
  - B) Tokyo
  - C) New Delhi
  - D) Manila
- Q83. On which among the following dates, execution of Bhagat Singh took place ?
- A) March 19, 1931
  - B) April 23, 1931
  - C) March 23, 1931
  - D) March 14, 1931
- Q84. The longest dam in India is?
- A) Bhakra Dam
  - B) Hirakud Dam
  - C) Nagarjuna Sagar Dam
  - D) Kosi Dam
- Q85. Which bank is the first to introduce ATM in India
- A) HSBC
  - B) ICICI
  - C) SBI
  - D) UCO
- Q86. When did India adopt a written constitution?
- A) November 26, 1949
  - B) January 26, 1950
  - C) January 1, 1997
  - D) January 1, 1999

Q87. Gas molecules that absorb thermal infrared radiation and are present in large quantity to change climate system are known as

- A) alpha radiations
- B) beta radiations
- C) ozone gases
- D) greenhouse gases

Q88. Van Mahostav Day is observed on

- A) First of June
- B) First of December
- C) Fifteenth of August
- D) First of July

Q89. When we exhale, our lungs have to:

- A) Contract
- B) Expand
- C) Be still
- D) None of the above

Q90. Haryana was known with which among the following terms during the Mahabharata age?

- A) Haritdesha
- B) Haritpradesha
- C) Bahudhhanyaka
- D) Haritdhanyaka

**SVSU Recruitment Examination 2019**  
**Loaded Key Sheet for : 11 - Junior Programmer , Set Code : A**

| Q.No. | Key | Q.No. | Key | Q.No. | Key | Q.No. | Key | Q.No. | Key |
|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 1     | D/  | 21    | A/  | 41    | C/  | 61    | C/  | 81    | C/  |
| 2     | C/  | 22    | B/  | 42    | B/  | 62    | A/  | 82    | C/  |
| 3     | A/  | 23    | C/  | 43    | C/  | 63    | D/  | 83    | C/  |
| 4     | B/  | 24    | B/  | 44    | A/  | 64    | A/  | 84    | B/  |
| 5     | B/  | 25    | B/  | 45    | A/  | 65    | C/  | 85    | A/  |
| 6     | B/  | 26    | C/  | 46    | B/  | 66    | B/  | 86    | A/  |
| 7     | C/  | 27    | C/  | 47    | C/  | 67    | C/  | 87    | D/  |
| 8     | B/  | 28    | A/  | 48    | B/  | 68    | D/  | 88    | D/  |
| 9     | B/  | 29    | A/  | 49    | B/  | 69    | C/  | 89    | A/  |
| 10    | C/  | 30    | A/  | 50    | B/  | 70    | D/  | 90    | C/  |
| 11    | A/  | 31    | C/  | 51    | A/  | 71    | B/  | 91    | X   |
| 12    | C/  | 32    | B/  | 52    | A/  | 72    | A/  | 92    | X   |
| 13    | C/  | 33    | A/  | 53    | C/  | 73    | C/  | 93    | X   |
| 14    | D/  | 34    | C/  | 54    | A/  | 74    | D/  | 94    | X   |
| 15    | A/  | 35    | B/  | 55    | A/  | 75    | A/  | 95    | X   |
| 16    | A/  | 36    | D/  | 56    | B/  | 76    | C/  | 96    | X   |
| 17    | D/  | 37    | B/  | 57    | C/  | 77    | A/  | 97    | X   |
| 18    | B/  | 38    | A/  | 58    | B/  | 78    | B/  | 98    | X   |
| 19    | B/  | 39    | C/  | 59    | B/  | 79    | B/  | 99    | X   |
| 20    | B/  | 40    | B/  | 60    | A/  | 80    | A/  | 100   | X   |

**SVSU Recruitment Examination 2019**  
**Loaded Key Sheet for : 11 - Junior Programmer , Set Code : B**

| Q.No. | Key | Q.No. | Key | Q.No. | Key | Q.No. | Key | Q.No. | Key |
|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 1     | C/  | 21    | C/  | 41    | D/  | 61    | B/  | 81    | A/  |
| 2     | A/  | 22    | B/  | 42    | B/  | 62    | A/  | 82    | D/  |
| 3     | A/  | 23    | B/  | 43    | B/  | 63    | C/  | 83    | D/  |
| 4     | A/  | 24    | B/  | 44    | B/  | 64    | D/  | 84    | A/  |
| 5     | C/  | 25    | D/  | 45    | A/  | 65    | A/  | 85    | C/  |
| 6     | B/  | 26    | C/  | 46    | B/  | 66    | C/  | 86    | C/  |
| 7     | A/  | 27    | A/  | 47    | C/  | 67    | A/  | 87    | C/  |
| 8     | C/  | 28    | B/  | 48    | B/  | 68    | B/  | 88    | C/  |
| 9     | B/  | 29    | B/  | 49    | B/  | 69    | B/  | 89    | B/  |
| 10    | D/  | 30    | B/  | 50    | C/  | 70    | A/  | 90    | A/  |
| 11    | B/  | 31    | C/  | 51    | B/  | 71    | C/  | 91    | X   |
| 12    | A/  | 32    | B/  | 52    | C/  | 72    | A/  | 92    | X   |
| 13    | C/  | 33    | B/  | 53    | B/  | 73    | D/  | 93    | X   |
| 14    | B/  | 34    | C/  | 54    | B/  | 74    | A/  | 94    | X   |
| 15    | C/  | 35    | A/  | 55    | A/  | 75    | C/  | 95    | X   |
| 16    | B/  | 36    | C/  | 56    | A/  | 76    | B/  | 96    | X   |
| 17    | C/  | 37    | C/  | 57    | A/  | 77    | C/  | 97    | X   |
| 18    | A/  | 38    | D/  | 58    | C/  | 78    | D/  | 98    | X   |
| 19    | A/  | 39    | A/  | 59    | A/  | 79    | C/  | 99    | X   |
| 20    | B/  | 40    | A/  | 60    | A/  | 80    | D/  | 100   | X   |