

**DHC
JJA**

**Previous Year Paper
08 May, 2016**

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BOOKLET SERIES

A

DO NOT OPEN THIS QUESTION BOOKLET UNTIL ASKED TO DO SO.

PLEASE READ INSTRUCTIONS ON THE BACK COVER CAREFULLY.

Please fill in the following details using ball point pen.

Roll No.

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Name

Signature

THE QUESTION BOOKLET AND OMR ANSWER SHEET SHOULD BE
HANDED OVER TO THE INVIGILATOR ON COMPLETION OF THE TEST.

GENERAL INTELLIGENCE

Directions (Questions 1-3): Study the following information carefully to answer these questions.

- A. Seven students Pradeep, Qadir, Rohit, Sushant, Tushar, Uday and Vikas write a test series.
 B. Either Rohit or Sushant scores the highest in each test.
 C. Pradeep always scores less than Vikas.
 D. Qadir always scores less than Pradeep.
 E. Each time Rohit scores the highest, Tushar gets the least.
 F. Each time Sushant scores the highest, either Uday or Qadir scores the least.
 G. Each student scores marks different from each other.
- In a particular test, if Sushant is ranked second, which of the following can be true?
 (1) Uday gets more marks than Vikas. (2) Vikas is ranked fifth.
 (3) Tushar gets more marks than Qadir. (4) Pradeep is ranked 3rd.
 - In a particular test, if Sushant is ranked sixth and Qadir is ranked fifth, which of the following can be true?
 (1) Vikas is ranked first or fourth. (2) Rohit is ranked second or third.
 (3) Pradeep is ranked second or fifth. (4) Uday is ranked third or fourth.
 - In a particular test, if Rohit is ranked second and Qadir is ranked fifth, which of the following must be true about Tushar's rank?
 (1) Fourth (2) Third (3) Seventh (4) Sixth

Directions (Questions 4-5): Each of these questions has statements followed by two conclusions I and II. Decide which of the conclusions follows from the statements.

Mark answer as

- if conclusion I follows.
 - if conclusion II follows.
 - if neither conclusion I nor II follows.
 - if both conclusions I and II follow.
4. **Statement:** Space has no gravitational pull. It has no atmosphere.
Conclusions:
 I. Gravity is due to atmospheric pressure.
 II. It is not difficult to breathe in space.

5. **Statement:** Computer literates have good reasoning ability. Seema can understand the puzzle quickly.

Conclusions:

- I. Seema is computer literate.
- II. Seema has good reasoning ability.

Directions (Questions 6-7): Complete the series by replacing '?'

6. Z1C, W4E, T9H, Q16L, N25Q, '?'

- (1) P36W (2) K33V (3) K36S (4) K36W

7. 2AD4, 3EH9, 4IL16, 5MP25, '?'

- (1) 6MS36 (2) 6QT36 (3) 6PT36 (4) 6QU36

Directions (Questions 8-9): Find the odd one out in each of these questions.

8. (1) 69, 43 (2) 63, 47 (3) 34, 85 (4) 65, 23

9. (1) E12O4S (2) C9L3O (3) J6P4T (4) G9P3S

10. Pointing to a man in a photograph, Sakshi said, "His brother is the father of the son of my grandmother". How is Sakshi related to the man in the photograph?

- (1) Grandniece (2) Niece (3) Daughter (4) Granddaughter

11. In a certain code, if ENGLAND is written as 1234526 and FRANCE is written as 785291, how is GREECE coded?

- (1) 381171 (2) 381191 (3) 832252 (4) 835545

12. One day, Ramesh left home and cycled 10 km southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?

- (1) 25 km (2) 20 km (3) 15 km (4) 10 km

13. Six students A, B, C, D, E and F are sitting in the field. A and B are from Delhi while the rest are from Bengaluru. D and F are tall while others are short. A, C and D are girls while others are boys. Who is the tall girl from Bengaluru?

- (1) F (2) E (3) C (4) D

GENERAL AWARENESS

14. The internet pioneer and e-mail inventor _____ has passed away recently in USA at the age of 74 years.
 (1) Anita Brookner (2) Raymond Tomlinson
 (3) Lloyd Stowell Shapley (4) George Henry Martin
15. Which one of the following nationalized banks from India was granted operating licence by Myanmar Government along with three other Asian banks?
 (1) Indian Overseas Bank (2) Bank of Baroda
 (3) State Bank of India (4) Central Bank of India
16. Who has become the 7th Chairman of the National Human Rights Commission (NHRC) in 2016?
 (1) R M Lodha (2) K.G. Balakrishnan
 (3) H L Dattu (4) None of these
17. Which one of the following states/UTs has been formally declared country's first digital state/UT by President of India in February 2016?
 (1) Chandigarh (2) Delhi (3) Gujarat (4) Kerala
18. Parliament building of _____ became the first in the world in February 2016 to completely run on solar power.
 (1) UK (2) Japan (3) Pakistan (4) Indonesia
19. Where did the four day biennial event, Defexpo India 2016, India's biggest ever land, naval and homeland security exhibition take place in March 2016?
 (1) New Delhi (2) Goa (3) Hyderabad (4) Pune
20. Which among the following films has been selected as the Best Feature Film in the 63rd National Film Awards for the year 2015 announced recently?
 (1) Piku (2) Tanu Weds Manu Returns
 (3) Bajrangi Bhaijaan (4) Baahubali: The Beginning
21. Johan Cruyff the famous football legend who passed away at the age of 68 due to lung cancer belongs to
 (1) Spain. (2) Dutch. (3) France. (4) Germany.

22. Which Bank in India has introduced the FERRARI range of co-branded credit cards association with Italian luxury sports car manufacturer, Ferrari in March 2016?
(1) Citi Bank (2) Yes Bank (3) ICICI Bank (4) Axis Bank
23. ITC has launched its latest offering in the WelcomHeritage series called WelcomHeritage Haveli Dharampura in
(1) Delhi. (2) Shimla. (3) Chandigarh. (4) Srinagar.
24. The US President Barack Obama has recently made a historic visit to which one of the following North-American countries after a gap of 88 years by any US President?
(1) Mexico (2) Cuba (3) Honduras (4) Nicaragua
25. Where was 'Iron Fist 2016', the exercise for air power demonstration held by the Indian Air Force in March 2016?
(1) Gujarat (2) Punjab (3) Maharashtra (4) Rajasthan

QUANTITATIVE APTITUDE

26. If a number is multiplied by 22 and the same number is added to it, then we get a number that is half the square of that number. Find the number.
(1) 45 (2) 46 (3) 47 (4) Data insufficient
27. The average of x , y and z is 45. x is as much more than the average as y is less than the average. Find the value of z .
(1) 45 (2) 25 (3) 35 (4) 15
28. In what ratio should water be mixed with soda costing ₹ 12 per litre so as to make a profit of 25% by selling the diluted liquid at ₹ 13.75 per litre?
(1) 10 : 1 (2) 11 : 1 (3) 1 : 11 (4) 12 : 1
29. A man invests ₹ 10,000 in some shares in the ratio 2 : 3 : 5 which pay dividends of 10%, 25% and 20% respectively on his investment for that year. Find his dividend income.
(1) ₹ 1900 (2) ₹ 2000 (3) ₹ 2050 (4) ₹ 1950
30. A music system when sold for ₹ 4500 gives a loss of 16.66% to the merchant who sells it. Calculate his loss or gain per cent (approx.), if he sells it for ₹ 5703.75.
(1) Loss of 5.625% (2) Profit of 8.33%
(3) Loss of 7.0% (4) Profit of 5.60%

31. A shopkeeper buys an article for ₹ 400 and marks it for sale at a price that gives him 80% profit on his cost. He, however, gives a 15% discount on the marked price to his customer. Calculate the actual percentage profit made by the shopkeeper.
(1) 60% (2) 64% (3) 53% (4) 57%
32. A sum of money placed at compound interest doubles itself in 3 years. In how many years will it amount to 8 times itself?
(1) 9 years (2) 8 years (3) 27 years (4) 7 years
33. If a principal P becomes Q in 2 years when interest $R\%$ is compounded half yearly. And if the same principle P becomes Q in 2 years when interest $S\%$ is compounded annually, then which of the following is true?
(1) $R > S$ (2) $R = S$ (3) $R < S$ (4) None of these
34. The present ratio of the ages of A and B is 4 : 5. 18 years ago, this ratio was 11 : 16. Find the sum total of their present ages.
(1) 90 years (2) 105 years (3) 110 years (4) 80 years
35. Brass is an alloy of copper and zinc. Bronze is an alloy containing 80% of copper, 4% of zinc and 16% of tin. A fused mass of brass and bronze is found to contain 74% of copper, 16% of zinc, and 10% of tin. What is the ratio of copper to zinc in Brass?
(1) 64% and 36% (2) 33% and 67% (3) 55% and 45% (4) None of these
36. Ajay and Vijay undertake to do a piece of work for ₹ 200. Ajay alone can do it in 24 days while Vijay alone can do it in 30 days. With the help of Pradeep, they finish the work in 12 days. How much should Pradeep get for his work?
(1) ₹ 20 (2) ₹ 100 (3) ₹ 180 (4) ₹ 50
37. There are two pipes in a tank. Pipe A is for filling the tank and Pipe B is for emptying the tank. If A can fill the tank in 10 hours and B can empty the tank in 15 hours then find how many hours will it take to completely fill a half empty tank?
(1) 30 hrs (2) 15 hrs (3) 20 hrs (4) 33.33 hrs
38. A car travels one-third of the distance on a straight road with a velocity of 10 km/h, the next one-third with a velocity of 20 km/h and the last one-third with a velocity of 60 km/h. What is the average velocity of the car for the whole journey?
(1) 18 km/h (2) 10 km/h (3) 20 km/h (4) 15 km/h

ENGLISH

Directions (Questions 39-40): Choose the word which best expresses the meaning of the underlined word in the sentence.

39. It was a/an ignominious defeat for the team.

- (1) shameful (2) admirable (3) unaccountable (4) worthy

40. Frantic efforts were made to save the drowning child.

- (1) Hopeless (2) Desperate (3) Sincere (4) Careful

Directions (Questions 41-42): Choose the word which is opposite in meaning of the underlined word in the sentence.

41. Savita did not heed the disdain she had to bear at the hands of her step-mother.

- (1) penitence (2) humility (3) pride (4) admiration

42. His friends liked everything about him except his frugality.

- (1) short temper (2) extravagance (3) shabbiness (4) punctuality

Directions (Questions 43-45): Choose the option which best expresses the meaning of the underlined idiom/phrase in the sentence.

43. Despite being under debt, Rahim still keeps a good table.

- (1) keeps up an outward show of prosperity (2) entertains his guests sumptuously
(3) helps his friends with money (4) is lively and gay when his friends call

44. He was a king who ruled his subjects with a high hand.

- (1) oppressively (2) kindly (3) sympathetically (4) wisely

45. I did not mind what he was saying as he was only talking through his hat.

- (1) talking insultingly (2) talking irresponsibly
(3) talking ignorantly (4) talking nonsense

Directions (Questions 46-47): A word has been written in four different ways out of which only one is correctly spelt. Choose the correctly spelt word.

46. (1) Entreprenuer (2) Entrepraneur (3) Entrepreneur (4) Entreapreneur

47. (1) Soveriegnity (2) Sovereignty (3) Sovereignity (4) Soveriegnity

Directions (Questions 48-49): In each of these questions, choose the word which can be substituted for the given sentence/words.

48. A published verbal declaration of the intentions, motives, or views of the political party

- (1) Agenda (2) Manifesto
(3) Report (4) Circular

49. Something appearing to be true or real only until examined more closely

- (1) Superficial (2) Superstitious
(3) Superfluous (4) Supernatural

Directions (Questions 50-51): In each of these questions, choose the best option to complete the sentence.

50. The doctor warns him that unless he gives up smoking,

- (1) he will not suffer.
(2) his health will soon be recovered.
(3) he will not recover.
(4) will he be able to recover.

51. George is so lazy that he

- (1) can't depend upon others for getting his work done.
(2) can seldom complete his work on time.
(3) always extends help to others to complete their work.
(4) always completes his work on time.

COMPUTER SCIENCE

52. Race condition always arises in a/an
- (1) analog to digital converter. (2) digital to analog converter.
(3) asynchronous circuit. (4) synchronous circuit.
53. A serial adder requires
- (1) one full adder only. (2) two full adder.
(3) more than two full adders. (4) one half adder.
54. An up-down counter is also called
- (1) forward/backward counter. (2) bidirectional counter.
(3) Both (1) and (2) (4) None of these
55. The fastest logic family that does not operate fully saturated or cut off is
- (1) Resistor Transistor Logic.
(2) Transistor -Transistor Logic.
(3) Emitter Coupled logic.
(4) Complementary Metal Oxide Semiconductor.
56. Which of the following programmings actually controls the path of the data within the computer?
- (1) Assemble language programming (2) System programming
(3) Micro programming (4) None of these
57. The process in which CPU of a computer takes instruction from the memory and execute them is called
- (1) clock cycle. (2) fetch execute cycle.
(3) instruction sequencing. (4) time sequencing.
58. The total address space exceeds the size of physical memory in which of the following?
- (1) Paging (2) Segmentation
(3) Both paging and segmentation (4) None of these
59. The minimum size of ROM required to store the complete truth table of an 8-bit \times 8-bit multiplier will be _____.
- (1) 32×16 k bit (2) $16 \text{ k} \times 16$ bit (3) $64 \text{ k} \times 16$ bit (4) 64×16 bit

60. The statement `printf("%f", 8/5)` prints
 (1) 1.0 (2) 1.6 (3) 2.0 (4) garbage
61. A node can be inserted in a circular list at rear position by
 (1) inserting at front position of the queue.
 (2) inserting at Rear-1 position of the queue.
 (3) inserting at Rear-2 position of the queue.
 (4) All these
62. In a circular linked list organization, insertion of a record involves modification of
 (1) one pointer. (2) two pointers.
 (3) three pointers. (4) None of these
63. Which of the following types of operators has the highest precedence in C programming?
 (1) Arithmetic operator (2) Relational operator
 (3) Logical operator (4) All have equal precedence
64. A hash table has a space for 200 records. Then the probability of the collision before the table is 10% full is _____
 (1) 0.1 (2) 0.2 (3) 0.95 (4) 1
65. The maximum number of binary trees that can be formed with four unlabeled nodes is _____.
 (1) 12 (2) 14 (3) 7 (4) 15
66. Which of the following number of nodes can have a full binary tree?
 (1) 7 (2) 15 (3) 31 (4) All these
67. The order of binary search algorithm is _____.
 (1) 2^n (2) n^2 (3) $\text{Exp}(n)$ (4) $\text{Log } n$
68. The Context Free Grammar (CFG) is not closed under
 (1) Product. (2) Union.
 (3) Complementation. (4) Both (1) and (2)

69. Recursive languages are closed under
- union.
 - intersection.
 - complementation.
 - All these
70. Which of the following statements is not true?
- The class of Context Free Language (CFL) is not closed under union
 - All regular grammars need not to be regular
 - Accepted word can only form a language
 - All these
71. Which of the following data structures is mainly used during shift-reduce parsing?
- Binary Trees
 - Pointers
 - Queues
 - Stacks
72. Which of the following is discriminator of the weak entity?
- Date
 - Transaction number
 - Both (1) and (2)
 - None of these
73. In relational Schema, each tuple is divided into fields called
- Domains.
 - Trees.
 - Queries.
 - Chain.
74. The employee salary should be greater than 10000 is _____ and Manager's salary detail are hidden from the employee is _____
- integrity constraint, external level data hiding
 - referential constraint, external level data hiding
 - integrity constraint, physical level data hiding
 - integrity constraint, conceptual level data hiding
75. Normalization of database is used to
- reduce errors.
 - improve security.
 - eliminate redundancy.
 - All these
76. The extent to which the software can control to operate correctly despite the introduction of invalid input is called
- antivirus efficiency.
 - performance of the system.
 - robustness.
 - reliability.

77. Which of the following parts of operating system coordinates the activities of the other program?
 (1) CPU (2) Mother Board (3) Supervisor (4) File Manager
78. Two commands with different names share the same code is called
 (1) aliasing situation. (2) race condition. (3) toggle condition. (4) None of these
79. In networking terminology UTP means,
 (1) Uniformly Twisted Pair. (2) Unshielded Twisted Pair.
 (3) Uniform Terminating Pair. (4) Unshielded Task Pair.
80. Different computers are connected to a LAN by
 (1) cable and modem. (2) cable and interface card.
 (3) special wires. (4) telephone lines.
81. In half duplex communication system,
 (1) transmission takes place in both directions, but only in one direction at a time.
 (2) transmission takes place in one direction.
 (3) transmission takes place in both directions simultaneously.
 (4) None of these
82. Web pages start with the tag _____.
 (1) < HTML > (2) < BODY > (3) < HEAD > (4) < FORM >
83. Which of the following is location of map definition file?
 (1) BIN (2) RECYCLE-BIN (3) TRASH (4) CGI-BIN
84. What is the function of Markup Tags?
 (1) It tells the web browser to organize the page.
 (2) It tells the web browser to display the page.
 (3) It tells the web browser to update the page.
 (4) None of these
85. XML is _____ and tags element in XML are _____.
 (1) declarative language, case sensitive (2) declarative language, case insensitive
 (3) imperative language, case sensitive (4) imperative language, case insensitive

PART A : WRITE WITH BLUE BALL POINT PEN ONLY

USE BLUE BALL POINT PEN ONLY

FILL UP ALL THE RELEVANT COLUMNS ON THIS PAGE FAILING WHICH YOUR ANSWER SHEET WILL BE INVALIDATED.

DELHI HIGH COURT

1. NAME (AS FILLED IN THE APPLICATION/REGISTRATION FORM)

JJA - TECHNICAL - DHC

2. DATE OF BIRTH

DD / MM / YY

3. TEST DATE

08 / 05 / 16
DD / MM / YY

4. CANDIDATE'S SIGNATURE

BOOKLET SERIES - A

INVIGILATOR'S SIGNATURE

I have carefully examined the identity of this candidate and also all the entries made in SIDE -1, PART A & SIDE -2, PART B. I certify that these are correct.

SEAL OF EXAMINATION CENTRE

NEGATIVE MARKING - 25%
SAS

IMPORTANT INSTRUCTIONS

- Read carefully the instructions in the Question Booklet.
- Each question has four answer options. Mark the answer option number by darkening the corresponding oval. Shade only ONE oval.
- For marking answer, completely darken the chosen oval as shown in the correct method below :
Correct Method ① ● ③ ④ Wrong Method ✗ ☑ ◐ ○ ○
- Once an oval is darkened as answer to the question, it is final. Any change by erasing, using fluid and making cross (X) in the oval is not permitted.
- Make no stray marks on this sheet.
- Non adherence of any instruction will lead to the cancellation of candidature.
- There will be 25% Negative marking for every wrong answer.

PART B : WRITE WITH BLUE BALL POINT PEN ONLY

Answer Key

5. NAME OF THE CANDIDATE

Grid for writing name of the candidate, containing rows of letters A-Z and numbers 0-9.

6. BOOKLET SERIES 7. REGISTRATION NO.

Grid for writing booklet series and registration number, containing rows of letters A-H and numbers 0-9.

PART C : ANSWERS

MARK THE APPROPRIATE ANSWER OPTION IN THE OVAL ☐ CORRESPONDING TO EACH QUESTION NUMBERED 1-85.

Grid for marking answers, containing columns for question numbers (Q.No.) and answer options (1, 2, 3, 4).

PLEASE DO NOT WRITE ANYTHING IN THIS AREA. ANSWER SHEET NO. 106952