

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

24-0009-AB

TEST BOOKLET

(Time Allowed: 3.00 hours)

PAPER – II

(Maximum Marks: 300)

INSTRUCTIONS TO CANDIDATES

Read the instructions carefully before answering the questions:

1. This Test Booklet consists of **12 (twelve) pages** and has **75 (seventy-five) items (questions)**.
2. **IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.A**
3. **Please note that it is the candidate's responsibility to fill in the Roll Number and other required details carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet and the Separate Answer Booklet. Any omission/discrepancy will render the OMR Answer Sheet and the Separate Answer Booklet liable for rejection.**
4. Do not write anything else on the OMR Answer Sheet except the required information. Before you proceed to mark in the OMR Answer Sheet, please ensure that you have filled in the required particulars as per given instructions.
5. Use **only Black Ball Point Pen** to fill the OMR Answer Sheet.
6. This Test Booklet is divided into 4(four) parts – **Part – I, Part – II, Part – III and Part – IV.**
7. All four parts are **Compulsory**.
8. **Part-I consist of Multiple Choice-based Questions.** The answers to these questions have to be marked in the **OMR Answer Sheet** provided to you.
9. **Part – II to Part – IV consist of Conventional Questions.** The answers to these questions have to be written in the **Separate Answer Booklet** provided to you.
10. In Part-I, each item (question) comprises of 04 (four) responses (answers). You are required to select the response which you want to mark on the OMR Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
11. After you have completed filling in all your responses on the OMR Answer Sheet and the Answer Booklet(s) and the examination has concluded, you should hand over to the Invigilator **only the OMR Answer Sheet and the Answer Booklet(s)**. You are permitted to take the Test Booklet with you.
12. **Penalty for wrong answers in Multiple Choice-based Questions:**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to the question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to the question.
 - (iii) If a question is left blank. i.e., no answer is given by the candidate; there will be **no penalty** for that question.

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7. Spalls are chips of which of the following?
- (a) Wood
 - (b) Cloth
 - (c) Stone
 - (d) Plastic
8. Which type of brick is used in good quality of construction?
- (a) Sun-dried Bricks
 - (b) First Class Bricks
 - (c) Second Class Bricks
 - (d) Third Class Bricks
9. The percentage of carbon content in mild steel is in the range of?
- (a) 0.05-0.30
 - (b) 2.00-3.00
 - (c) 4.0 -5.00
 - (d) More than 5 percent
10. The outermost protective covering of cells and woody fibers on a tree is called as -
- (a) Heart Wood
 - (b) Sap Wood
 - (c) Pith
 - (d) Bark
11. The horizontal upper part of a step on which foot is placed in ascending or descending stairway is called -
- (a) Soffit
 - (b) Baluster
 - (c) Newel post
 - (d) Tread
12. In a staircase, a series of steps without any platform, break or landing in their direction is -
- (a) Strings
 - (b) Flight
 - (c) Riser
 - (d) Nosing
13. Green is a -
- (a) Primary color
 - (b) Secondary color
 - (c) Tertiary color
 - (d) Complementary color

14. Branch of the science of perspective dealing with the projection of shadows is called as
- (a) Sciography
 - (b) Sciagraphy
 - (c) Skiagraphy
 - (d) All of the above
15. The height of riser in a public building is -
- (a) 50mm
 - (b) 150mm
 - (c) 300mm
 - (d) All of the above
16. Tint is the opposite of -
- (a) Sill
 - (b) Jamb
 - (c) Shade
 - (d) Concrete
17. Which of the following describes the color scheme which uses two colors?
- (a) Complementary
 - (b) Monochromatic
 - (c) Tetradic
 - (d) Triadic
18. The great temple of Parthenon is located in -
- (a) Japan
 - (b) China
 - (c) Berlin
 - (d) Athens
19. Stringers provide support to -
- (a) Louvered Doors
 - (b) Lintels
 - (c) Steps
 - (d) Domes
20. A harmika is an architectural element located on the top of a -
- (a) Temple
 - (b) Garden
 - (c) Torana
 - (d) Stupa

PART – II

SHORT ANSWER TYPE QUESTIONS

Write short notes on any 10(ten) of the following:

(10x5=50)

51. Shallow Foundations
52. Defects that occur in Timber
53. Primary colours
54. Basic architecture of the Golden Temple, Amritsar
55. Architecture of the Mughal Gardens
56. Kirchhoff's Current Law
57. Local attraction in Survey
58. Importance of trees and shrubs in landscape
59. Manholes and its types
60. Septic Tanks and its types
61. Social Stratification
62. Lintels and its uses
63. Types of estimates

PART- III

LONG ANSWER TYPE QUESTIONS

Attempt any 5(five) of the following:

(5x10=50)

64. How are bricks classified? Write in detail about the various types of bricks.
65. Write in detail about the properties and uses of stainless steel.
66. What is an Arch? Describe the various technical terms associated with an arch.
67. Discuss the principles of town planning.
68. What is arbitration? Why is it done? Write about its advantages and disadvantages.
69. What are building bye-laws? Write in detail about them.
70. What is prestressing? Elucidate its advantages and applications.
71. Give a detail account of the principles of interior designing.

PART – IV

ESSAY TYPE QUESTIONS

Attempt any 2 (two) of the following:

(2x25=50)

72. The Mughals built dozens of incredible works of architecture. In your opinion which is one of the best works? Support your answer giving details.
73. Enumerate the various types of staircases. Write in detail about the various terms associated with staircases.
74. Write in detail about the causes of fire. Also write about the working of smoke detectors and alarm systems.
75. Chandigarh is known as a modernist masterpiece. Write in detail about the planning of Chandigarh City.