

# ENTRANCE EXAMINATION-2016

## Master of Architecture

### [Set A]

ROLL NO.

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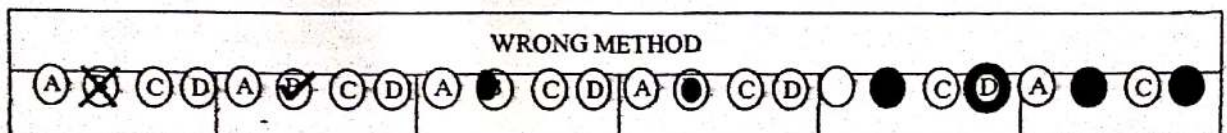
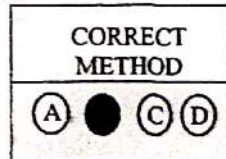
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Signature of Invigilator

Time : 3 Hours

Total Marks: 100

#### Instructions to Candidates

1. Do not write your name or put any other mark of identification anywhere in the OMR Answer Sheet. **IF ANY MARK OF IDENTIFICATIONS IS DISCOVERED ANYWHERE IN OMR ANSWER SHEET, the OMR sheet will be cancelled, and will not be evaluated.**
2. This Question Booklet contains this cover page and a total of **100 Multiple Choice Questions of 1marks**. Space for rough work has been provided at the beginning and end. Available space on each page may also be used for rough work.
3. Each correct answer carries one mark.
4. There is no negative marking.
5. **USE OF CALCULATOR IS PERMITTED.**
6. **USE/POSSESSION OF ELECTRONIC GADGETS LIKE MOBILE PHONE, iphone, iPad, pager ETC. is not permitted.**
7. Candidate should check the serial order of questions at the beginning of the test. If any question is found missing in the serial order, it should be immediately brought to the notice of the Invigilator. No pages should be torn out from this question booklet.
8. Answers must be marked in the OMR answer sheet which is provided separately. OMR answer sheet must be handed over to the invigilator before you leave the seat.
9. The OMR answer sheet should not be folded or wrinkled. The folded or wrinkled OMR/Answer Sheet will not be evaluated.
10. Write your Roll Number in the appropriate space (above) and on the OMR Answer Sheet. Any other details, if asked for, should be written only in the space provided.
11. There are four alternative answers to each question marked A, B, C and D. Select one of the answers you consider most appropriate and fill up the corresponding oval/circle in the OMR Answer Sheet provided to you. The correct procedure for filling up the OMR Answer Sheet is mentioned below.
12. Use Black or Blue Ball Pen only for filling the ovals/circles in OMR Answer Sheet while answering the Questions. For your Choice of answers darken the correct oval/circle completely. If the correct answer is 'B', the corresponding oval/circle should be completely filled and darkened as shown below.



1. Pritzker Architecture Prize 2016 has been awarded to
  - A. Richard Rogers
  - B. Zaha Hadid
  - C. Wang Shu
  - D. Alejandro Aravena
2. IIA National Award for Excellence in Architecture 2015 will be held in
  - A. New Delhi
  - B. Chennai
  - C. Kolkata
  - D. Calicut
3. The moisture content in well seasoned timber is
  - A. 8% to 10%
  - B. 10% to 12%
  - C. 15% to 17 %
  - D. 20% to 22%
4. "Sphinx" - a mythical monster has
  - A. Body of lion and head of man
  - B. Body of man and head of lion
  - C. Body of tiger and head of woman
  - D. None of these
5. "Synagogue" is related to
  - A. Parsis
  - B. Christians
  - C. Jews
  - D. Baha'i
6. Type of construction according to fire resistance rating is classified into
  - A. 4 types
  - B. 6 types
  - C. 8 types
  - D. 10 types
7. Psychrometric Chart is a graphical representation of
  - A. Effective Temperature
  - B. Air velocity
  - C. Solar radiation
  - D. None of the above
8. "Mastabas" are the examples of
  - A. Royal Residence
  - B. Temple
  - C. Sports Centre
  - D. Tomb
9. Falling Water designed by Frank Lloyd Wright is example of
  - A. Organic architecture
  - B. In-organic architecture
  - C. Both of these
  - D. None of these
10. Obelisks in Egypt were
  - A. Moon God
  - B. Sun God
  - C. Wind God
  - D. Fire God
11. A first class brick when immersed in cold water for 24 hours should not absorb water more than
  - A. 10%
  - B. 15%
  - C. 20%
  - D. 25%
12. "Icosahedron" is a polyhedron with
  - A. 16 faces
  - B. 18 faces
  - C. 20 faces
  - D. 24 faces
13. Presently India is divided in
  - A. 3 seismic zone
  - B. 4 seismic zone
  - C. 5 seismic zone
  - D. 6 seismic zone
14. City of Babylon was rebuilt by
  - A. Ashurnasirpal
  - B. Nebuchadnezzar
  - C. Ictinus
  - D. Callicrate
15. Gandhi Ashram Museum is situated at
  - A. Pune
  - B. Sasaram
  - C. Allahabad
  - D. Ahmedabad
16. Relative Humidity is 100% when
  - A. Dry bulb temperature & Wet bulb temperature are equal
  - B. Dry bulb temperature is twice the Wet bulb temperature
  - C. Wet bulb temperature is twice the Dry Bulb temperature
  - D. None of these
17. Diagonal scales are used to measure up to
  - A. 2 units
  - B. 3 units
  - C. 4 units
  - D. 5 units
18. Acropolis at Athens was example of
  - A. Sanctuary
  - B. Residence
  - C. Amphitheatre
  - D. Health Centre



19. Parthenon is

- A. Greek Temple
- B. Egyptian Temple
- C. Gothic temple
- D. Roman Temple

20. "Agora" in ancient Greek city was

- A. Ghat
- B. Bagh
- C. Bungalow
- D. Market place

21. Barcelona Pavilion was designed by

- A. Walter Gropius
- B. Buckminster Fuller
- C. Frank Lloyd Wright
- D. Mies Van der Rohe

22. Find odd one out (defects in timber)

- A. Star Shakes
- B. Moon Shakes
- C. Heart Shakes
- D. Ring shakes

23. Who among the following was not associated in the designing of Chandigarh

- A. Albert Mayer
- B. Maxwell Fry
- C. Pierre Jeanneret
- D. Lucio Costa

24. Sandstone is

- A. Metamorphic rock
- B. Igneous rock
- C. Sedimentary rock
- D. None of these

25. The term "Ekistics" was coined by

- A. C Doxiadis
- B. Buckminster Fuller
- C. Charles Abrams
- D. Margaret Mead

26. Number of bricks required in one cubic meter of brick masonry is

- A. 350
- B. 400
- C. 450
- D. 500

27. Botanical name of "Gulmohar" is

- A. Ficus Benghalensis
- B. Delonix Regia
- C. Azadirachta Indica
- D. Dalbergia Sisso

28. Hawa Mahal at Jaipur was primarily built

- A. To measure wind speed
- B. For warriors to rest
- C. For women of royal household to watch the festival
- D. All of the above

29. The height of "Burg Khalifa, Dubai is

- A. 828m
- B. 725m
- C. 541m
- D. 641m

30. "Toothing" is a construction technique used in

- A. Wooden construction
- B. RCC construction
- C. Steel Construction
- D. Brick construction

31. Buland Darwaza was built to commemorate victory over

- A. Gujrat
- B. Bengal
- C. Panipat
- D. Chhittorgarh

32. Feng Shui literally means

- A. Wind
- B. Water
- C. Both of these
- D. None of these

33. All DSLR camera take

- A. 16mm film
- B. 28mm film
- C. 35mm film
- D. 70mm film

34. Find odd one out

- A. Casement window
- B. Clerestory window
- C. Dormer window
- D. Lintel window

35. The dome of Gol Gumbaz at Bijapur is

- A. Hemi-spherical brick masonry dome
- B. Hemi-spherical stone masonry dome
- C. Onion shaped brick masonry dome
- D. Onion shaped stone masonry dome

36. The design of Taj Mahal was influenced by

- A. Humayun's Tomb
- B. Safdarjung Tomb
- C. Salim Chisti's Tomb
- D. Akbar's Tomb

37. The nominal size of modular brick is

- A. 190mmx 90mmx75mm
- B. 190mmx90mm x90mm
- C. 200mmx100mmx100mm
- D. 200mmx200mmx75mm

38. The city "Bengaluru" falls in climatic zone

- A. Temperate
- B. Composite
- C. Warm Humid
- D. Humid

39. The proportion of M25 grade concrete is

- A. 1:2:4
- B. 1:1.5:3
- C. 1:3:6
- D. 1:1:2

40. Minimum thickness of wall where single Flemish bond can be used is

- A. Half brick thick
- B. One brick thick
- C. One & half Brick thick
- D. Two Brick thick

41. For buildings 15m or above height, the staircase enclosures should be fire rating minimum of

- A. 1 hour rating
- B. 1.5 hour rating
- C. 2 hour rating
- D. 2.5 hour rating

42. The unit of exit width used to measure the capacity of any exit as specified in National building code is

- A. 250 mm
- B. 500 mm
- C. 750mm
- D. 1000mm

43. Select the streets in descending order of width

- A. Collector street, Arterial street, Sub arterial street, Local street
- B. Local street, Collector street, Sub arterial street, Arterial street
- C. Arterial street, Sub arterial street, Collector street, Local street
- D. Arterial street, Sub arterial street, Local street, Collector street

44. Golden ratio is

- A. 1:1.61
- B. 1:1.71
- C. 1:1.81
- D. 1:1.91

45. Queen closure is

- A. A brick of normal length and width but half the normal thickness
- B. A brick of normal width and thickness but half the normal length
- C. A brick of normal width and thickness but  $1/3^{rd}$  the normal length
- D. A brick of normal length and thickness but half the normal width

46. In Mahoney Table, humidity is grouped into

- A. 4 groups
- B. 5 groups
- C. 6 groups
- D. 7 groups

47. In first angle projection

- A. Plane of projection lies between observer and the object
- B. Object lies between observer and plane of projection
- C. Plane of projection assumed to be transparent
- D. None of these

48. Find odd one out

- A. Intrados
- B. Voussoirs
- C. Cellar
- D. Key stone

49. Maximum bending moment for a simply supported beam having uniformly distributed load of 10 kg/m and the span is 8m, will be

- A. 40 Kg-m
- B. 80 Kg-m
- C. 120 Kg-m
- D. 160Kg-m

50. How long is Surveyor's /Gunter's chain

- A. 60 feet
- B. 62 feet
- C. 64 feet
- D. 66 feet

51. Closed contours of increasing values, towards their centre represents

- A. A Hill
- B. A saddle or pass
- C. A river bed
- D. A depression



52. Method of surveying in which field observation and plotting proceed simultaneously
- Chain surveying
  - Compass surveying
  - Plane Table Surveying
  - Tacheometric surveying
53. The aspect ratio of cinemascope film is
- 1:1
  - 1:1.15
  - 1:2
  - 1:2.35
54. Quoin is
- Masonry block at stretcher course
  - Masonry block at the corner of wall
  - Masonry block at the centre of arch
  - Masonry block at header course
55. The maximum number of seats in auditorium between two longitudinal aisles is
- 10
  - 12
  - 14
  - 18
56. Which is not a BIM software
- Autodesk Revit
  - Graphisoft ArchiCAD
  - Rhino
  - Auto CAD
57. In MS word, which key do you press to "check spelling".
- F3
  - F5
  - F7
  - F9
58. Slenderness ratio of the column is the ratio of
- Width of the column to depth of the column
  - Effective length to the least radius of gyration
  - Effective depth to the least radius of gyration
  - None of the above
59. An adjustable opening in the camera that limits amount of light
- Shutter speed
  - Shutter release
  - Aperture
  - Depth of field
60. Minimum size of internal courtyard for the purpose of natural ventilation in a habitable room is
- 3.0 M
  - 4.0 M
  - 4.5M
  - 5.0M
61. "Finger Plan" concept of city planning was initially adopted in
- Canberra
  - Copenhagen
  - Tokyo
  - Paris
62. FAR is defined as the ratio of
- Ground Floor Area to Total Covered area
  - Total covered area to plot area
  - Plinth area to Plot area
  - None of these
63. All the vanishing points of two point perspective shall essentially lie on
- Ground line
  - Horizon line
  - Vertical line
  - None of these
64. Council of Architecture was established in the year
- 1972
  - 1974
  - 1976
  - 1978
65. ECS is defined as the car space
- Per 100 sqft
  - Per 50 sq.ft
  - Per 50 sqm
  - Per 100 sqm
66. Lisbon Ismaili Centre, Lisbon was designed by
- Moshe Safdie
  - Charles Correa
  - Raj Rewal
  - B.V.Doshi
67. Presently, the Chairman of Delhi Urban Arts commission is
- P. S.N Rao
  - B.V.Doshi
  - Uday C Gatkari
  - None of these
68. Slope of the ramp for the basement for vehicular movement shall not exceed
- 1:6
  - 1:8
  - 1:10
  - 1:12

69. V7 Concept given by Le Corbusier refers to

- A. Hierarchy of Roads
- B. Architecture Design principles
- C. Neighbourhood Planning
- D. Housing Typologies

70. What is the minimum plot size permissible for housing cluster

- A. 15 sqm
- B. 20 sqm
- C. 25 sqm
- D. 35 sqm

71. The word "ceramic" meant for

- A. Soft material
- B. Hard Material
- C. Burnt material
- D. Dry material

72. Find odd one out

- A. King Post
- B. Rafter
- C. Purlin
- D. Baluster

73. The Book "The image of the city" was authored by

- A. Paul Zucker
- B. Edward T Hall
- C. Kevin Lynch
- D. Jean Nouvel

74. The depth of Lift pit in passenger lift is

- A. 1000mm
- B. 1200mm
- C. 1600mm
- D. 2000mm

75. In case of residential apartments, the effective floor area available for use within an apartment is known as

- A. Carpet Area
- B. Built-up Area
- C. Plinth Area
- D. Super Built-up Area

76. JNNURM was introduced in

- A. Fourth Five year Plan
- B. Eighth Five year Plan
- C. Tenth Five year Plan
- D. Eleventh Five year Plan

77. The city of Bhubaneswar was designed by

- A. Konisberger
- B. Le Carbusier
- C. Lutyens
- D. Charles Correa

78. Cul-de-sac is

- A. Pattern of linear road
- B. Main feeder street with Y shaped junction
- C. Pattern of radial road
- D. Street open at only one end, with a provision for turn-around at the other

79. Howrah Bridge at Kolkata is an example of

- A. Suspension Bridge
- B. Cable Bridge
- C. Cantilever Bridge
- D. Bascule Bridge

80. Identify which is NOT a green building rating system

- A. LEED
- B. CASBEE
- C. ENERGY BUILD
- D. BREEAM

81. Travel behaviour characteristics of an urban area can be derived from

- A. Parking Survey
- B. Demographic survey
- C. Socio Economic Survey
- D. Origin & Destination Survey

82. The traditional houses of Delhi are called

- A. Chawls
- B. Poles
- C. Katras
- D. None of these

83. The accumulation of white deposits on the exposed surface of the brick in brick masonry is called

- A. Obsolescence
- B. Efflorescence
- C. Reconnaissance
- D. None of these

84. Gusset Plate is used in

- A. Soil testing
- B. Masonry work
- C. Wood work
- D. Steel trusses

85. Husain-Doshi Gufa is situated at

- A. Ahmedabad
- B. Delhi
- C. Gandhinagar
- D. Pune

86. Stringers are related to

- A. Wall construction
- B. Column construction
- C. Staircase construction
- D. Window construction



87. Laurie Baker is famous for  
 A. Low cost housing  
 B. High rise housing  
 C. Cinema  
 D. Painting
88. Dampers are used in  
 A. Plumbing Systems  
 B. HVAC Systems  
 C. Carpentry work  
 D. Painting work
89. Gas supply in buildings is prohibited in which of the following pipe if pressure is more than 7 kN/m<sup>2</sup>.  
 A. Wrought iron  
 B. Steel  
 C. Cast iron  
 D. Copper
90. The term "Kerb" is  
 A. A concrete edging along the pathway  
 B. Slope of the land  
 C. A linear wide and shallow depression  
 D. None of these
91. In the drainage plan, the sewers are marked with which colour  
 A. Red  
 B. Blue  
 C. Black  
 D. Green
92. Tanks larger than ..... litre capacity shall be provided with vent pipe  
 A. 4000  
 B. 5000  
 C. 6000  
 D. 7000
93. The term "Conurbation" was coined by  
 A. Richard L Meier  
 B. Walter Gropius  
 C. Homer Hoyt  
 D. Patrick Geddes
94. For normal comfort conditions, humidity values are accepted in between  
 A. 20% to 50%  
 B. 30% to 60%  
 C. 40% to 70%  
 D. 50% to 80%
95. Hospital Laboratories adjacent to Wards should be at  
 A. Positive pressure  
 B. Negative pressure  
 C. Equal pressure  
 D. None of these
96. Reverberation time is the time required for sound pressure level to decrease by ..... after sound source has stopped.  
 A. 40 dB  
 B. 60 dB  
 C. 80 dB  
 D. 100 dB
97. During which period dome became dominant theme for churches  
 A. Baroque period  
 B. Classical period  
 C. Greek period  
 D. Roman period
98. "Every building is by its very nature a Sculpture. You can't help it. Sculpture is a three dimensional object and so is a building". This famous quote is of  
 A. Bernald Tschurni  
 B. Frank O. Gehry  
 C. Jacques Derride  
 D. Peter Eisenman
99. According to Central Place theory, the tributary around central places are flattened into  
 A. Octagons  
 B. Hexagons  
 C. Heptagons  
 D. Decagons
100. In partition construction, the purpose of resilient channels is to  
 A. Increase the strength of the partition  
 B. Increase the acoustical properties of partition  
 C. Increase the thickness of a partition  
 D. Provide a suitable base for attaching wall board over masonry