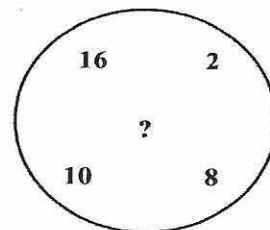
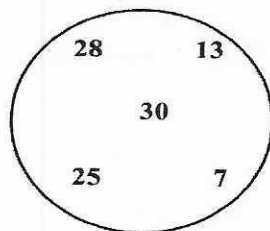
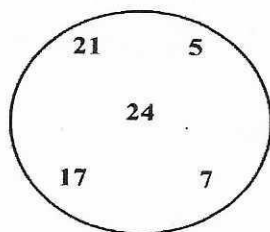


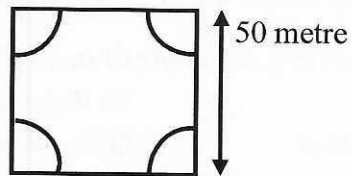
CHANDIGARH HOUSING BOARD
POST: ASSISTANT ARCHITECT
Question Booklet & Answer Key
05.02.2023 (EVENING)

- Choose the correct synonym for the given underlined word from the options that follow:-
Wreck
A) Joy B) Destroy C) Restore D) Ladder
- Choose the correct antonym for the given underlined word from the options that follow:-
Exasperation
A) Pleasure B) Agony C) Capability D) Bravery
- Identify the error in the underlined parts of the sentence:
The author said . during the press conference
 A) B)
that there were two farther volumes to be published.
 C) D)
- Choose the correct preposition to be filled in the blank from the options that follow:-
I called _____ him at his office.
A) of B) with C) on D) at
- Choose the correct meaning of the idiom from the options that follow:-
To flog a dead horse.
A) To abuse an animal B) To waste energy on a lost cause
C) To ride a horse D) To criticise others
- Which of the following is a classical language of India?
A) Hindi B) Bengali C) Odia D) Urdu
- Under whose chairmanship, India's first interplanetary mission Mangalyaan was launched?
A) G.Madhavan Nair B) K. Radhakrishnan C) Krishnaswamy Kasturirangan D) K. Sivan
- A vitamin that functions both as a hormone and a visual pigment is :
A) Riboflavin B) Folic Acid C) Retinal/Retinol D) Thiamine
- Which island is known as Swaraj Dweep?
A) Havelock Island B) Neil Island C) Smith Island D) Willingdon Island
- Which of the following actor/actress has won the maximum National Film Awards?
A) Amitabh Bachchan B) Sharmila Tagore C) Waheeda Rehman D) Shabana Azmi
- If the same function is applied to reach the results in each of the three sets of numbers given below, then which number will replace the question mark (?) in the third set of numbers ?



- A) 24 B) 30 C) 36 D) 40
- A group of seven singers, facing the audience, are standing in a line on the stage as follows:
D is to the right of C; F is standing beside G; B is to the left of F; E is to the left of A;
C and B have one person between them; and, A and D have one person between them.
If we start counting from the left, on which number is C ?
A) 1st B) 2nd C) 3rd D) 5th

13. Kailash faces towards North. Turning to his right he walks 25 m. He then turns to his left and walks 30 m. Next, he moves 25 m to his right. He then turns to his right again and walks 55 m. Finally, he turns to the right and moves 40 m. How far and in which direction is he now from his initial point?
- A) South – East, 26.92m
B) South – East, 35m
C) South , 15m
D) Can't be determined
14. If 'A × B' means A is the father of B; 'A + B' means A is the daughter of B; 'A ÷ B' means A is the mother of B and 'A – B' means A is the brother of B, then which of the following means that R is wife of P?
- A) P × R – Q – T B) P ÷ T + R – Q C) P × T – Q + R D) None of these
15. A cube of side 4 cm is painted red on the pair of one adjacent surfaces, green on the pair of other adjacent surfaces and two adjacent surfaces are left unpainted. Now the cube is divided into 64 smaller cubes of side 1 cm each.
- How many smaller cubes will have atmost two surfaces painted?
- A) 48 B) 44 C) 62 D) None of these
16. A square park has each side 50 metre. At each corner of the park, there is a flower bed in the form of a quadrant of radius 7 metre, as shown in the figure. Find the area of remaining part of the park.



- A) 2346 sq. metre B) 2340 sq. metre C) 2250 sq. metre D) 2155 sq. metre
17. The angle of depression of two ships from the top of a light house are 45° and 30° towards east. If the ships are 200 metre apart, find the height of the light house.
- A) 100 metres approx. B) 173 metres approx. C) 200 metres approx. D) 273 metres approx.
18. The ratio between the prices of two items is 15 : 26. If the price of first is increased by 10% and that of second by Rs.550, the ratio between the prices is 13 : 22. What were the initial prices of the two items?
- A) Rs.7359 & 3652 B) Rs.4290 & 7436
C) Rs.4719 & 7986 D) Rs.5629 & 8539
19. $\frac{1}{8}$ part of a pencil is black, $\frac{1}{2}$ part of the remaining is white. If the remaining part is blue and length of this blue part is $3\frac{1}{2}$ cm, find the length of the pencil.
- A) 6cm. B) 7cm. C) 8cm. D) 9cm.
20. In a river, the ratio of the speed of stream and speed of a boat in still water is 2 : 5. Again, ratio of the speed of stream and speed of an another boat in still water is 3 : 4. What is the ratio of the speed of the first boat to the second boat in still water?
- A) 10 : 7 B) 15 : 8 C) 4 : 3 D) 5 : 4
21. Using the HDD as an extension of RAM is a feature of
- A) Virtual memory B) Cache C) Direct Memory Access D) Virtual Reality
22. In human-computer interaction, GUI stands for _____.
- A) Graphical User Interface B) Graphical User Interrupt
C) Geographical User Interface D) Geographical Universal Interface

38. The hazard which concerns damage or destruction of building itself is known as the _____
 A) Internal hazard B) Building hazard C) Surrounding hazard D) Personal hazard
39. Where people are working, there has to be _____ to cause proper ventilation of the premises.
 A) Air change B) Humidity C) Temperature D) Moisture
40. Which of the following parameters does not affect the lift waiting time?
 A) Rated load B) Number of stops C) Door closing time D) Handling capacity
41. For Indian conditions, how much solar altitude is assumed as the standard for design purposes?
 A) 10 B) 12 C) 15 D) 17
42. During an earthquake, soft storey failure in a building is due to:
 A) Shear failure initiated by short column effect.
 B) Stress discontinuity initiated by abrupt changes of stiffness.
 C) Failure of column initiated by weak column-strong weak effect.
 D) Drift of building storey initiated by pounding effect.
43. What is the dependent variable in a regression based trip generation model.
 A) Number of households B) Population of traffic analysis zone
 C) Number of employees D) Number of trips.
44. The two components for measuring time of concentration for storm water are:
 A) Overland flow time and gutter flow time B) Retention time and inlet time
 C) Overland flow time and retention time D) Detention time and gutter flow time
45. _____ implies that elements in a composition belong together and have visual relatedness.
 A) Variety B) Rhythm C) Balance D) Unity
46. The increase in the overall population that resides in urban areas is referred as
 A) Deconcentration B) Urbanisation C) Decentralisation D) Agglomeration
47. The defects caused in timber due to an injury during the growth of the tree due to string winds or bad felling of trees
 A) wane B) cracks C) upset D) fissures
48. _____ is placed in ducts to control the direction, velocity and volume of circulating air in ducts.
 A) Lucifiers B) Attenuators C) Dampers D) Thord
49. The phenomenon to indicate the construction by which the transmission of heat from or in the room is retarded is known as
 A) Thermal Conduction B) Thermal Convocation
 C) Thermal Insulation D) Thermal Resistance
50. The stone used for construction purposes should have specific gravity greater than
 A) 2.7 B) 2.8 C) 2.9 D) 3.0
51. The concentric circles in a sun path diagram represent
 A) Altitude angle B) Azimuth angle C) Day of the Year D) Hour of the day

52. The minimum width of the fire escape stairs shall be
A) 1.0 m B) 1.25 m C) 1.5 m D) 2.0 m
53. Two fundamental types of symmetry are _____ and _____.
A) radial and co-axial B) bilateral and radial
C) bilateral and axial D) axial and radial
54. The spots of low sound intensity causing unsatisfactory hearing for the audience is called
A) Sound spots B) Dead pool C) Dead spots D) Sound foci
55. Silicate bricks are made from
A) Waste product of burning of coal or lignite B) Autoclaving sand lime bricks
C) Waste materials from steel manufacturing D) Waste materials from crushers
56. Light is a _____ of a space.
A) Attribute B) Element C) Quality D) Property
57. Which dynasty gave India its famous temples of Khajuraho?
A) Holkars B) Mauryas C) Paramara D) Chandelas
58. Match the architectural projects in Group I with their Corresponding architects in Group II
- | Group I | | Group II | |
|---------|---|----------|----------------|
| Q. | Indian Institute of Management, Bangalore | 1. | Brinda Somaya |
| R. | Nalanda International School, Vadodra | 2. | B V Doshi |
| S. | Matrimandir, Auroville | 3. | Charles Correa |
| T. | Bharat Bhavan, Bhopal | 4. | Roger Anger |
- A) Q-2, R-1, S-4, T-3 B) Q-1, R-3, S-2, T-4
C) Q-2, R-4, S-1, T-3 D) Q-4, R-2, S-3, T-1
59. What is the smallest entity of raster data used in GIS.
A) Pixel B) Line C) Polygon D) Point
60. V7 concept given by Le Corbusier refers to
A) Neighbourhood Planning B) Housing Typologies
C) Architecture Design Principle D) Hierarchy of Roads
61. As per National Building Code 2005, the minimum size of a habitable room in m² is
A) 9.5 B) 10.5 C) 11.5 D) 12.5
62. Rapid Hardening cement is prepared by adding higher percentage of
A) Tetracalcium Aluminium Ferrite B) Tricalcium Aluminate
C) Tricalcium silicate D) Dicalcium silicate
63. 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
64. Gantt Chart does not provide information about
A) List of Jobs B) Duration of Jobs C) Interdependency of Jobs D) Progress of Work
65. Identify which is NOT a green building rating system
A) LEED B) CASBEE C) ENERGY BUILD D) BREEAM
66. In GIS, the set of entities representing vector data type is
A) Point, Line, Polygon, TIN B) Pixel, Voxel
C) DEM, DSM, DTM D) Coordinates, Elevation, Slope

67. Star Rating of an Air Conditioner is determined by its
A) Power Consumption B) Energy Efficiency Ratio
C) Cooling Capacity D) Power of Compressor
68. The term 'Working head' in context of water supply system means
A) Height of a body of water falling freely under the force of gravity to acquire a certain velocity
B) Rate of increase of velocity with respect to distance normal to the direction of flow
C) Total head with deduction for velocity head or losses
D) Difference between supply and delivery water levels
69. In AUTOCAD, a line of infinite length in the direction defined by starting point and through point, is known as
A) RAY B) LINE C) PLINE D) XLINE
70. Tothing is a construction technique used in
A) Wood construction B) Steel construction
C) Reinforced cement concrete construction D) Brick masonry
71. 'Skeleton and Skin' concept in building design and construction evolved during the
A) Roman period B) Renaissance period C) Gothic period D) Greek period
72. In AutoCAD, the maximum number of points which can be snapped in a circle using OSNAP command is
A) 1 B) 3 C) 4 D) 5
73. Development authorities in India are established under the provision of
A) Municipal Act B) 74th Constitutional Amendment Act
C) Town and Country Planning Act D) Land Acquisition Act
74. The difference of temperature between the outside air and inside air tends to the deposition of moisture in the room surfaces known as _____
A) Ventilation B) Diffusion C) Condensation D) Dissipation
75. In a bird's eye perspective view of a cuboid, the maximum number of vanishing points is
A) 1 B) 2 C) 3 D) 6
76. The compressive strength of M-25 concrete is
A) 25 kg/sqm B) 25 N/sqmm C) 250 N/sqmm D) 2.5 N/sqmm
77. In Critical Path Method (CPM) for time scheduling, 'forward pass calculation' is carried out for determining
A) Late start and early finish time B) Early start and early finish time
C) Late start and late finish time D) Early start and late finish time
78. 'Sight Distance' is considered in the design of
A) Road intersection B) Fenestration C) Open kitchen D) Auditorium
79. In escalators, the angle of inclination with the horizontal plane should be in the range of
A) 10°-20° B) 20°-30° C) 30°-35° D) 35°-45°
80. As per the Census of India 2011, 'Metropolitan Urban Agglomeration' is a contiguous spread of several urban settlements where the minimum population size (in Lakh) is
A) One B) Five C) Ten D) Fifty

81. In a single-stack system of plumbing
 A) All the appliances and traps are fully ventilated
 B) Only WC branches are connected with anti-siphonage pipes
 C) Anti-siphonage pipes are omitted
 D) Only the stack is vented above the branch connection at each floor level
82. The maximum bending moment (kNm) in a simply supported beam of 8 m span subjected to a uniformly distributed load of 20 kN/m (inclusive of its self-weight) over the entire span is
 A) 40 B) 160 C) 240 D) 380
83. Which of the following is NOT a Building Information Modeling software tool
 A) Adobe Illustrator B) Bentley Microstation
 C) Autodesk Revit D) Graphisoft ARCHICAD
84. Total quantity of light emitted from a point source of light per second is called _____
 A) luminous flux B) luminous intensity C) Illuminance D) Lumen
85. 'AMRUT', the new scheme launched by Government of India, stands for
 A) Atal Mission for Rejuvenation and Urban Transformation
 B) Atal Mission for Renewal of Urban Transportation
 C) Atal Mission for Redevelopment of Urban Transportation
 D) Atal Mission for Renewal and Urban Transformation
86. The concept of Transit Oriented Development (TOD) refers to
 A) Transit oriented planning in institutional campuses
 B) High density development along a mass transit corridor
 C) Orienting residential blocks towards the transit in a gated community
 D) Spatial design for persons with disabilities along a mass transit corridor
87. The components measuring Human Development Index (HDI) of a nation are
 A) Life expectancy, Education and Per Capita Income
 B) Life expectancy, Economy and Housing
 C) Health, Development and Per Capita Income
 D) Housing, Health and Hygiene
88. As per the Ancient Monuments and Archaeological Sites and Remains Act, 2010, the extent of 'prohibited area' beyond the 'demarcated protected area' in meters is
 A) 50 B) 100 C) 200 D) 500
89. From the following cost components of a building construction project which is not a direct cost combination?
 P. Labour cost Q. Equipment cost R. Material cost S. Establishment cost
 T. Supervision cost
 A) P and Q B) Q and R C) P and R D) S and T
90. 'Summit Curve' is a term associated with the design of
 A) Roads and flyovers B) Escalators and elevators
 C) Tensile fabric structures D) Geodesic domes
91. Low-emissivity coating on a glazing unit
 A) Increases the SHGC B) Increases the VLT
 C) Reduces the SHGC D) Increases the VLT and SHGC
92. Hoop and meridional forces are associated with
 A) Dome B) Truss C) Folded Plate D) Space Frame

93. Match the terms in Group-I with the related terms in Group-II

Group I		Group II	
P.	Acquisition	1.	Ownership
Q.	Planning permission	2.	Construction
R.	Building plan sanction	3.	Land cover
S.	Mutation	4.	Land use
		5.	Land

- A) P-5, Q-4, R-2, S-1 B) P-5, Q-3, R-1, S-2
 C) P-3, Q-4, R-5, S-1 D) P-5, Q-3, R-2, S-4

94. Match the components of an Indian urban land use map in Group I with their corresponding colour codes as per UDPFI guidelines in Group II

Group I		Group II	
P.	Public / Semipublic	1.	Violet
Q.	Industry	2.	Grey
R.	Transportation	3.	Red
S.	Commercial	4.	Blue
		5.	Yellow

- A) P-1, Q-3, R-2, S-5 B) P-2, Q-1, R-3, S-4
 C) P-3, Q-4, R-5, S-2 D) P-3, Q-1, R-2, S-4

95. Associate the plans in Group I with the options in Group II

Group I		Group II	
P.	City Development Plan	1.	PMGSY
Q.	Slum Free City Plan	2.	JNNURM
R.	Transport Network Plan	3.	RAY
S.	Disaster Management Plan	4.	NDMA
		5.	RSVY

- A) P-2, Q-3, R-1, S-4 B) P-2, Q-1, R-5, S-4
 C) P-1, Q-3, R-2, S-5 D) P-3, Q-2, R-1, S-4

96. 'Mushroom Column' is a typical feature of

- A) Pantheon, Rome B) Parthenon, Athens
 C) Chrysler Building, New York D) Johnson Wax Building, Racine

97. In CMYK colour model, 'K' represents the colour

- A) White B) Black C) Blue D) Green

98. Assuming full compaction, strength of concrete is inversely proportional to

- A) Water - cement ratio B) Water - sand ratio
 C) Water - coarse aggregate ratio D) Water - plasticiser ratio

99. 'Finger Plan' concept of urban planning was initially adopted in

- A) Canberra B) Paris C) Copenhagen D) Tokyo

100. In the Taipei 101 building, the steel sphere as TMD (Tuned Mass Damper) is suspended to reduce horizontal sway due to

- A) Settlement & Wind Load B) Wind & Geothermal Load
 C) Seismic & Geothermal Load D) Seismic & Wind Load

Chandigarh Housing Board
Post: ASSISTANT ARCHITECT
Answer Key (A-Series) : 05.02.2023 (EVENING)

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