

POST GRADUATE COMMON ENTRANCE TEST-2016

DATE and TIME	COURSE	SUBJECT
03-07-2016 2.30 p.m. to 4.30 p.m.	ME/M.Tech/M.Arch/ courses offered by VTU/UVCE/UBDTCE	ARCHITECTURE
MAXIMUM MARKS	TOTAL DURATION	MAXIMUM TIME FOR ANSWERING
100	150 Minutes	120 Minutes
MENTION YOUR PGCET NO.		QUESTION BOOKLET DETAILS
		VERSION CODE
		SERIAL NUMBER
		A - 1
		210193

DOs :

1. Check whether the PGCET No. has been entered and shaded in the respective circles on the OMR answer sheet.
2. Ensure whether the circles corresponding to course and the specific branch have been shaded on the OMR answer sheet.
3. This Question Booklet is issued to you by the invigilator after the 2nd Bell i.e., after 2.25 p.m.
4. The Serial Number of this question booklet should be entered and the respective circles should also be shaded completely on the OMR answer sheet.
5. The Version Code of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely on the OMR answer sheet.
6. Compulsorily sign at the bottom portion of the OMR answer sheet in the space provided.

DON'Ts :

1. **THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED / MUTILATED / SPOILED.**
2. The 3rd Bell rings at 2.30 p.m., till then;
 - Do not remove the paper seal / polythene bag of this question booklet.
 - Do not look inside this question booklet.
 - Do not start answering on the OMR answer sheet.

IMPORTANT INSTRUCTIONS TO CANDIDATES

1. This question booklet contains 75 (items) questions and each question will have one statement and four answers. (Four different options / responses.)
2. After the 3rd Bell is rung at 2.30 p.m., remove the paper seal / polythene bag of this question booklet and 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. Read each item and start answering on the OMR answer sheet.
3. During the subsequent 120 minutes:
 - Read each question (item) carefully.
 - Choose one correct answer from out of the four available responses (options / choices) given under each question / item. 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.
 - **Completely darken / shade the relevant circle with a BLUE OR BLACK INK BALL POINT PEN** against the question number on the OMR answer sheet.

Correct Method of shading the circle on the OMR answer sheet is as shown below :



4. Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same.
5. After the last Bell is rung at 4.30 p.m., stop marking on the OMR answer sheet and affix your left hand thumb impression on the OMR answer sheet as per the instructions.
6. Handover the OMR ANSWER SHEET to the room invigilator as it is.
7. After separating the top sheet (KEA copy), the invigilator will return the bottom sheet replica (Candidate's copy) to you to carry home for self-evaluation.
8. Preserve the replica of the OMR answer sheet for a minimum period of ONE year.
9. Only Non-programmable calculators are allowed.

Marks Distribution

PART-1	: 50 QUESTIONS CARRY ONE MARK EACH (1 TO 50)
PART-2	: 25 QUESTIONS CARRY TWO MARKS EACH (51 TO 75)

AR-A1



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A-1

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ARCHITECTURE

PART – 1

Each question carries one mark.

(50 × 1 = 50)

- | | |
|--|--|
| <p>1. Which of these is a 'moving water feature' operated by pressure in landscape design ?</p> <p>(A) Vertical jet</p> <p>(B) Stream</p> <p>(C) Free fall</p> <p>(D) Sheet fall</p> <p>2. <i>Lagerstroemia flosreginae</i> is commonly known as</p> <p>(A) Bird of Paradise</p> <p>(B) India's Queen</p> <p>(C) Queens' flower</p> <p>(D) Temple tree</p> <p>3. Which of these is NOT a 'natural' factor under site development consideration ?</p> <p>(A) Hydrology</p> <p>(B) Traffic & Transit</p> <p>(C) Wildlife</p> <p>(D) Physiography</p> | <p>4. EIA stands for</p> <p>(A) Environment Impact Assessment</p> <p>(B) Environment Improvement Action</p> <p>(C) Environment Improvement Assessment</p> <p>(D) Energy Impact Assessment</p> <p>5. Housing in Hot dry climate such as Rajasthan must follow a</p> <p>(A) staggered plan</p> <p>(B) compact plan</p> <p>(C) spread out plan</p> <p>(D) open plan</p> <p>6. The study and practice of making maps is called</p> <p>(A) Geography</p> <p>(B) Demography</p> <p>(C) Topography</p> <p>(D) Cartography</p> |
|--|--|

Space For Rough Work

7. The study of population is called

- (A) Demography
- (B) Geography
- (C) Cartography
- (D) Biography

8. The expansion of FSI is

- (A) Floor Service Index
- (B) Floor Structure Index
- (C) Floor Standard Index
- (D) Floor Space Index

9. The following person is acclaimed as the 'father of modern planning' who stressed the importance of social theories in planning

- (A) Le Corbusier
- (B) Patrick Geddes
- (C) Soria Y. Mata
- (D) Hilber Seimer

10. Garden City principle was propounded by

- (A) Patrick Geddes
- (B) Hilber Seimer
- (C) Ebenezer Howard
- (D) Soria Y. Mata

11. Relation of part to part and part to whole is

- (A) symmetry
- (B) proportion
- (C) harmony
- (D) balance

12. Emphasizing two things equally is

- (A) contrast
- (B) unity
- (C) repetition
- (D) duality

13. Tuscan order was prevalent in

- (A) Rome
- (B) Greece
- (C) Egypt
- (D) Spain

Space For Rough Work

14. The occurrence of radial symmetry in plan and bilateral symmetry in elevation is seen in

- (A) Fatehpur Sikri
- (B) Jantar Mantar
- (C) Taj Mahal
- (D) Red Fort

15. Patterned flow of elements indicating order is

- (A) Repetition
- (B) Rhythm
- (C) Repose
- (D) Restraint

16. Volutes in the capitals is a feature seen in

- (A) Doric order
- (B) Corinthian order
- (C) Ionic order
- (D) Tuscan order

17. Central courtyard in a building is an example of

- (A) space adjacent to a space
- (B) space within a space
- (C) inter locking space
- (D) space connected by a space

18. Postmodernism is characterised by

- (A) mix of features from many styles
- (B) restricted to one style
- (C) emphasis of free flowing forms
- (D) unrelated & working in bits & pieces

19. 'Sangath' in Ahmedabad is designed by

- (A) Hiraskar
- (B) Raj Rewal
- (C) Charles Correa
- (D) B.V. Doshi

20. A colour ranging from its lightest tint to darkest shade is called

- (A) monotony
- (B) gradation
- (C) variety
- (D) hierarchy

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21. 'The nature of space reflects what it wants to be' is a quote by

- (A) Louis Kahn
- (B) Mies van der Rohe
- (C) Sullivan
- (D) Gropius

22. Chaityas are examples of which architecture?

- (A) Islamic
- (B) Buddhist
- (C) Roman
- (D) Greek

23. Entrance gateway in Buddhist architecture is called

- (A) Triumphal arch
- (B) Gateway of India
- (C) Torana
- (D) India gate

24. The Kesava temple at Belur belongs to what style of architecture?

- (A) Hoysala
- (B) Chola
- (C) Pandya
- (D) Pallava

25. The Guggenheim Museum in Bilbao was completed in

- (A) 1990
- (B) 1980
- (C) 1985
- (D) 1997

26. London's Millennium Dome is designed by

- (A) Norman Foster
- (B) Christopher Wren
- (C) Richard Rogers
- (D) Zaha Hadid

27. Aqueducts were first constructed by

- (A) Indians
- (B) Egyptians
- (C) Romans
- (D) Greeks

28. The affordable type of housing to economically weaker section is

- (A) villas
- (B) bungalows
- (C) detached housing
- (D) row housing

Space For Rough Work

29. An avenue refers to
- (A) trees on one side
 - (B) trees on both sides
 - (C) trees in the middle
 - (D) trees at the end of the road.
30. The book written by Kevin Lynch is
- (A) The Image of the city
 - (B) Complexities & Contradictions in Architecture
 - (C) Fountainhead
 - (D) Lateral thinking
31. Allocation of land for Transportation & Communication in a city should not exceed
- (A) 60 to 65%
 - (B) 80 to 85%
 - (C) 2 to 5%
 - (D) 20 to 25%
32. A continuous colonnade around a courtyard or around the exterior of a building is called
- (A) Peristyle
 - (B) Distyle
 - (C) Peripteral
 - (D) Dipteral
33. The author of the book "The Architecture of the City" [1966] is
- (A) Kevin Lynch
 - (B) Aldo Rossi
 - (C) Paolo Porteghesi
 - (D) Allan Greenberg
34. Charles-Edouard Jeanneret is the name of
- (A) Frank Lloyd Wright
 - (B) Sullivan
 - (C) Le Corbusier
 - (D) Mies van der Rohe

Space For Rough Work

35. 'When I draw something, the brain and the hands work together' is quoted by

- (A) Tadao Ando
- (B) Frank O Gehry
- (C) Norman Foster
- (D) Zaha Hadid

36. Which temple belongs to Gupta period ?

- (A) Dasavatara temple
- (B) Meenakshi temple
- (C) Virupaksha temple
- (D) Lingaraja temple

37. Mughal gardens are characterized by

- (A) animal forms
- (B) charbagh
- (C) borrowed landscape
- (D) informal style

38. Sphinx means

- (A) half animal half woman
- (B) half man half horse
- (C) half man half woman
- (D) half man half lion

39. Mastabas in Egyptian architecture are

- (A) burial monuments
- (B) palaces
- (C) market places
- (D) great baths

40. Mezzanine floor means an intermediate floor not exceeding _____ of the covered area of the ground floor.

- (A) $\frac{3}{4}$ th
- (B) $\frac{1}{3}$ rd
- (C) $\frac{1}{4}$ th
- (D) $\frac{1}{2}$

41. Flying buttresses were a prominent structural feature in

- (A) Gothic architecture
- (B) Roman architecture
- (C) Byzantine architecture
- (D) Greek architecture

42. Michelangelo belonged to which period ?

- (A) Baroque
- (B) Gothic
- (C) Renaissance
- (D) Romanesque

Space For Rough Work

43. In office buildings, one car park should be provided for every _____ of floor area.
- (A) 50 sqm
 - (B) 100 sqm
 - (C) 25 sqm
 - (D) 75 sqm
44. As per the latest bye laws, one car park size should be
- (A) 2.5 m × 5.0 m
 - (B) 3.0 m × 5.0 m
 - (C) 2.5 m × 5.5 m
 - (D) 3.0 m × 5.5 m
45. Land occupied by residential uses which does not include streets, parks or other uses is
- (A) Gross density
 - (B) Net density
 - (C) High density
 - (D) Low density
46. Which of the following was developed as an example of satellite towns ?
- (A) Kengeri
 - (B) Malleshwaram
 - (C) Jayanagar
 - (D) Sadashivanagar
47. Architect for Nrityagram in Hesarghatta, Bangalore is
- (A) Raj Rewal
 - (B) Charles Correa
 - (C) B.V. Doshi
 - (D) Gerard da Cunha
48. "A Place in the Shade" is written by
- (A) Charles Correa
 - (B) Arundhati Roy
 - (C) Kevin Lynch
 - (D) Hafeez Contractor
49. British born Indian architect famous for his initiatives in cost effective and energy efficient architecture and has designed Dakshina Chitra [Chennai] is
- (A) Le Corbusier
 - (B) Laurie Baker
 - (C) Gerard da Cunha
 - (D) Charles Correa
50. The procedure of systematically acquiring and recording information about the members of a given population is
- (A) observation
 - (B) statistics
 - (C) tabulation
 - (D) census

Space For Rough Work

PART – 2

Each question carries two marks.

25 × 2=50

51. Match the type of city planning with its place.

- | | |
|---|---------------|
| P. Linear city | 1. Karlsruhe |
| Q. Radial city | 2. New Delhi |
| R. Sector planning | 3. Stalingrad |
| S. Combination of concentric pattern & others | 4. Chandigarh |

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

52. During Roman period, cities were

- (A) regimental, laid out in a grid iron pattern, structures like triumphal arches & aqueducts were built
(B) laid out in a linear pattern, structures like obelisks & sphinxes were built
(C) laid out in a grid iron pattern, building like Parthenon and temples were built
(D) fortified, buildings like cathedrals & churches became the nucleus

53. Match the colour to the respective land use.

- | | |
|--------------|-------------------------|
| P. Yellow | 1. Public & semi public |
| Q. Purple | 2. Commercial |
| R. Dark blue | 3. Residential |
| S. Red | 4. Industries |

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

54. The Neighbourhood Planning Concept is designed around which of the two following elements :

- (A) Industry & Offices
(B) Religious structures & Library
(C) School & Shops
(D) Bus terminus & Cinema

Space For Rough Work

55. Two types of Natural land forms are

- (A) Hills & Ridges
- (B) Shops & Schools
- (C) Trees & Shrubs
- (D) Garden & Parks

56. Shrubs are characterized by

- (A) soft stem with spreading canopy
- (B) woody or semi-woody stem with low branching
- (C) woody or semi-woody stem with spreading canopy
- (D) soft stem which need support.

57. Two "Natural" factors to be considered under site development are

- (A) Concept & Design approach
- (B) Physiography & Wildlife
- (C) Culture & Economy
- (D) Traffic & Transit

58. Two American Landscape Architects are

- (A) Lancelot Brown & Thomas Church
- (B) Thomas Church & Andre Le Notre
- (C) Lancelot Brown & F.L. Olmsted
- (D) F.L. Olmsted & Thomas Church

59. Match the Historic or Traditional housing to the place.

- | | |
|-------------|----------------|
| P. Pals | 1. Pune |
| Q. Havelis | 2. South India |
| R. Agrahara | 3. Ahmedabad |
| S. Peths | 4. Rajasthan |

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

Space For Rough Work

60. Match the building with its spatial organisation.

- | | |
|--------------|--------------------------------|
| P. Linear | 1. UNESCO Secretariat Building |
| Q. Clustered | 2. Chandigarh Town |
| R. Grid Iron | 3. Unite d' Habitation |
| S. Radial | 4. Habitat 67 |
- (A) P-4, Q-3, R-1, S-2
 (B) P-3, Q-4, R-1, S-2
 (C) P-4, Q-3, R-2, S-1
 (D) P-3, Q-4, R-2, S-1

61. Match the styles with the examples.

- | | |
|-----------------|-------------------------|
| P. Nayak | 1. Hazara Rama temple |
| Q. Pallava | 2. Shore temple |
| R. Vijayanagara | 3. Meenakshi temple |
| S. Chola | 4. Brihadeeswara temple |
- (A) P-3, Q-2, R-1, S-4
 (B) P-3, Q-1, R-2, S-4
 (C) P-3, Q-2, R-4, S-1
 (D) P-2, Q-3, R-1, S-4

62. Match the buildings with their architects.

- | | |
|-----------------|---------------------------------|
| P. I.M. Pei | 1. Kansai International Airport |
| Q. Zaha Hadid | 2. Pyramid at Le Grande Louvre |
| R. Renzo Piano | 3. National Gallery of Canada |
| S. Moshe Safdie | 4. Bergisel Ski Jump |
- (A) P-2, Q-1, R-3, S-4
 (B) P-2, Q-1, R-4, S-3
 (C) P-2, Q-4, R-3, S-1
 (D) P-2, Q-4, R-1, S-3

63. Match the following theorists with their theories :

- | | |
|-----------------------|-------------------------|
| P. Frank Lloyd Wright | 1. Deconstructivism |
| Q. Mies van der Rohe | 2. Post Modernism |
| R. Peter Eisenman | 3. Minimalism |
| S. Robert Venturi | 4. Organic Architecture |
- (A) P-4, Q-2, R-3, S-1
 (B) P-4, Q-3, R-2, S-1
 (C) P-4, Q-3, R-1, S-2
 (D) P-3, Q-4, R-1, S-2

Space For Rough Work

64. Match the architects with their quotes.

- | | |
|---------------------------|----------------------|
| P. Less is more | 1. Robert Venturi |
| Q. Less is bore | 2. Louis Sullivan |
| R. Ornamentation is crime | 3. Mies van der Rohe |
| S. Form Follows function | 4. Adolf Loos |

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

65. As per the bye laws, all around minimum setbacks respectively for building heights of 46.0 m and 52.0 m is

- (A) 15.0 m & 16.0 m
 (B) 14.0 m & 16.0 m
 (C) 13.0 m & 15.0 m
 (D) 13.0 m & 14.0 m

66. Match the arches with their styles

- | | |
|-----------------------|---------------|
| P. Pointed arch | 1. Gothic |
| Q. Multifoil arch | 2. Buddhist |
| R. Horseshoe arch | 3. Romanesque |
| S. Semi Circular arch | 4. Islamic |

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

67. Match the books with the authors.

- | | |
|--|----------------|
| P. The Seven lamps of Architecture | 1. Vitruvius |
| Q. Essay on Architecture | 2. Alberti |
| R. Ten books on Architecture (De Architectura) | 3. Laugier |
| S. De re aedificatoria | 4. John Ruskin |

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

Space For Rough Work

68. Match the movements with the architects.

- | | |
|---------------------------|------------------------------|
| P. Arts & Crafts movement | 1. Semper |
| Q. Art Nouveau | 2. William Morris |
| R. Realism | 3. Charles Rennie Mackintosh |
| S. Expressionism | 4. Erich Mendelsohn |

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

69. The chronological sequence in Imperial style of Islamic Architecture is

- (A) Slave → Khalji → Tughlaq → Sayyid & Lodhi
(B) Khalji → Tughlaq → Slave → Sayyid & Lodhi
(C) Slave → Tughlaq → Khalji → Sayyid & Lodhi
(D) Khalji → Tughlaq → Sayyid & Lodhi → Slave

70. Two notable aspects indicating 'Restraint' in Architectural composition are

- (A) Quiet & Balanced
(B) Control over something & minimalistic
(C) Dynamic & Asymmetrical
(D) Chaotic & Monotonous

71. Two Provincial styles under Islamic Architecture are

- (A) Delhi & Agra
(B) Mumbai & Agra
(C) Jaunpur & Bengal
(D) Delhi & Mumbai

Space For Rough Work

72. The two primary objectives of Regional Planning are

- (A) tourism & conservation
- (B) equitable resource distribution & connectivity
- (C) housing & slum eradication
- (D) administration and law & order

73. As per National Urban Housing & Habitat Policy 2007, Affordable Housing to all has special emphasis on

- (A) MIG & EWS sections
- (B) HIG & MIG sections
- (C) LIG & MIG sections
- (D) EWS & LIG sections

74. Match the colour code with the respective land use.

- | | |
|-----------------------------------|--------------|
| P. Residential | 1. Purple |
| Q. Commercial | 2. Yellow |
| R. Industrial | 3. Dark blue |
| S. Transportation & communication | 4. Grey |

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

75. In a Base map, the following scales should be shown :

- (A) Human & Generic scale
- (B) Pedestrian & Vehicular scale
- (C) Graphic & Area scale
- (D) Personal & Monumental scale

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