CODE: AE-ARC

M.Tech. Common Entrance Test, PGCET - 2010

ARCHITECTURE

Time: 2 Hours Max. Marks: 100

Read the following instructions before answering the test

- i) Write / darken the particulars of your identity, Test Seat Number and affix your signature on the OMR Response Sheet before the start of the test.
- ii) All Questions have multiple choices of answers, of which only one is correct.
- iii) Mark the correct answer by completely darkening only one oval against the Question number using Black Ink Ball Point pen only.
- iv) There will be no negative evaluation with regard to wrong answers. Marks will not be awarded if multiple answers are given.
- v) Do not make any stray mark on the OMR Response sheet. For rough work, use blank page on the question paper.
- vi) Taking the question paper out of the test hall is permitted only after the full duration of the test.
- vii) Use of only non-programmable calculator is permitted.
- viii) START ANSWERING ONLY AT THE SPECIFIED TIME WHEN THE INVIGILATOR GIVES INSTRUCTIONS.

MARKS DISTRIBUTION

PART – I 50 Questions: $50 \times 1 = 50 \text{ Marks}$

PART – II 25 Questions : $25 \times 2 = 50 \text{ Marks}$ Total = 100 Marks

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PART - I

Each question carries one mark.

l.	The following four architects belonged to Baro a) Borromini, Guarini, Maderno and Bernini. b) Michelangelo, Guarini, Maderno and Bernini c) Bramante, Michelangelo, Alberti and Palladi d) Michelangelo, Maderno, Bernini and Brunel	i. o.	
2.	The four primordial motives for architecture viz structural framework were the ideas of a) John Ruskin b) Gottfried Semper	z. walling, hearth gather c) Calude Perrault	ring, terracing and d) de Quincy
3.	The architecture of the following architect can a) Zaha Hadid b) Robert Sterne		h'. d) Norman Foster
4.	Eros Theatre, Bombay designed by Bhedwar ar a) Arts & Crafts Movement in India c) Art Deco in India	nd Sorabji Architects is b) Greek Revival in In d) Revivalist style	
5.	Kailasanatha temple at Kancheepuram is noted a) Thousand pillared mandapa c) Dravidian vimana	for the origins of b) Dravidian prakara d) Dravidian gopuram	
6.	The author of the book Design of Cities is a) Fredric Gibbard b) Edmund Bacon	c) Ebenezer Howard	d) Kevin Lynch
7.	Urban Design theory that deals with analysis of space is a) figure-ground theory b) open space theory		
8.	Area of homogeneous character recognized by a Landmark b) Node	clues refers to	d) Edge
9.	'Critical architecture of negation' – this refers to a) Zaha Hadid b) James Stirling		d) Peter Eisenman
10.	'While discussing architectural matters, we rare like and what you like' – This statement is made a) Christian Norberg Schulz c) Amos Rapoport		der
11.	Moss, manicured trees, rocks, water – these elema) Moghul garden b) Chinese garden		d) Japanese garden
12.	Building skeleton and skin are the hallmarks of a) Gothic style b) Greek style		d) Romanesque style
13.	The botanical name of 'Neem' tree used for roa a) Largerstroenia Speciosa c) Azadirachta Indica	ndside landscaping is b) Ficus benghalensis d) Kleenhama hospita	
14.	According to Geoffrey Broadbent, designing wi a) iconic design b) pragmatic design	th the help of proportio c) canonic design	nal systems is called d) analogic design

,	Hector Guimard was associated with a) Arts and Crafts Movement c) Italian Futurism	b) Art Nouveau Mov d) De Stijl Movemen	
),	Piano nobile of the Italian palazzo refers to the a) second floor c) ground floor	b) third floor d) first floor (above t	he ground floor)
1	The concept of bio-climatic skyscraper is assoc a) William Lim b) Ken Yeang	iated with c) Mario Botta	d) Channa Daswate
},	The ideologies of architects, according to Jon L a) normative theory b) positive theory	0	d) explanatory theory
),	Golden section refers to the division of a line in a) $b/a = b^2/a^2$ b) $b-a/b+a = a/b$		ach that d) $b+a/b-a = ab$
).	Corbuiser chose to propound FIVE points of arca) FIVE fingers of hand c) FIVE elements of nature	chitecture in reference b) FIVE orders of ard d) FIVE proportions	
l.	'Layering of facades' and 'Sense of Centre' are a) B.V. Doshi b) Charles Correa		d) Achyut Kanvinde
2.	If the height of a building is h and distance of v. If h:d is 1:3, we a) tend to see object as edge b) tend to notice details more than the façade c) tend to see object as whole together with detail tend to see the building in relation to surroun	uils	ance – relation ratio is h:d
3.	Compared to the Greek agora, the Roman Forur a) symmetrical b) scattered	n was more c) structured	d) open
4.	As the population size of cities increases, the pe a) increases b) decreases		-
5.	If the age-sex pyramid of a settlement is broad indicates that the a) settlement has employment opportunity c) settlement has young population	b) settlement's popul	
6.	Innovative construction methods to save cost a were the hall marks of the following architect's a) Laurie Baker b) Anant Raje		n indigenous construction d) Satish Grover
7.	The following is not an example for primate city a) Bangalore in Karnataka c) Chennai in Tamil Nadu	y b) Mumbai in Mahara d) Thiruvananthapura	
8.	Ravindra Bhan is a noted a) housing expert b) landscape architect	c) urban designer	d) interior designer

29.	The concept of for a) Ebenezer How				unded by c) Patrick Ge	eddes	d) Lewis l	Keeble
30.	In the Indian corbe provided	itext, for	r a neighbourh	ood of	20,000 popula	tion, the	following	facilities are to
	a) high school, plc) high school, pl			re	b) high school d) high school			
31.	For post disaster a) high density, h c) prefab, potable	igh rise		appropi	b) high densi d) sites and s	ty, low ri		
32.	The most decorat a) Composite	tive amo	ng the five ord b) Corinthian		rchitecture is c) Ion	nic	d)	Tuscan
33.	The colour code a) Yellow	for publi	ic utility in a lab) Blue	and use i	nap is c) Re	d	d)	Brown
34.	a) Ornamental garden in Italy c) parkway in Boston			,	lighting in marine drive in Mumbai public park in New York			
35.	Technopolis mea a) Ten million siz c) Settlement des	ze city	high technolo	ogy	b) Dynapolis d) urban cont			
36.	The city of Brazila) Oscar Neimeye		lesigned by b) Le Corbus	ier	c) Ebenezer I	Howard	d)	Lucio Costa
37.	Japanese gardens a) dry gardens and c) statuary and ro	d stroll g	gardens		b) water gard d) pathways a			
38.	The curved arris fa) glyph	formed by groin	•	tion of v c) friez		d) impo	ost	
39.	Solid masonry wha) abacus	nich resi b) alae	sts the lateral p	oressure c) abut		alled d) aisle		
40.	Which plan form a) Rectangular	is most b) L sh		ouilding c) U sh		earthquak d) Squa		
41.	When the picture observer, the size a) decreases	-	erspective vie	W	object and the			d towards the
	The following are a) general welfare b) general welfare c) general welfare d) general welfare	e, aesthere, afforde, protect	tic quality, saf ability, safety tion of health,	ety and o and conv safety a	convenience. venience. nd convenienc	e.		
	William Kent is as a) Japanese garder c) French Baroque	n			b) English ror d) Italian gard	_	rden	

A country has the largest city size of 10 million. What will be the population size of its fourth largest city according to the rank size rule? a) 2 million b) 2 lakhs c) 2.5 lakhs d) 2.5 million
 The following factors are considered for proximity diagramming a) scale of different spaces and location of elements b) scale of different spaces and topographical conditions. c) location of elements and structural system d) location of elements and topographical conditions.
The following were landscape architects. a) Andre Le Notre, Valladier, Christopher Wren and John Nash b) Andre Le Notre, Valladier, John Wood and John Ruskin c) Valladier, John Wood, John Nash and John Ruskin d) Andre Le Notre, Valladier, John Wood and John Nash
Sensitivity to light and double envelope concept are the hallmarks of the architecture of a) Charles Correa b) Charles Moore c) Louis Kahn d) Corbusier
The author of Radburn concept was a) Patrick Geddes b) Clarence Stein c) Walter Gropius d) Doxiadis
The Gothic style in Europe prevailed during a) 12 th to 13 th century b) 14 th to 15 th century c) 13 th to 14 th century d) 15 th to 16 th century
In a settlement system, there is a transfer of the following among settlements. a) population, materials and services b) population and materials c) materials and services d) population and services
PART – II
Each question carries two marks.
The authors of the Concepts Rank size rule, Central place theory and Law of the primate city are the following respectively. a) Clarence Stein, Walter Christaller and Mark Jefferson b) GK Zipf, Walter Christaller and Mark Jefferson c) GK Zipf, Mark Jefferson and Ernest Burgess d) GK Zipf, Mark Jefferson and Walter Christaller
If the scale of a map is 1:50000, then 1sq.cm. of a map would represent a) 25 hectates b) 5 hectares c) 250 hectares d) 50 hectares
Soria Y. Mata and Daniel Burnham are the authors of a) Broad acres and City Beautiful Movement b) Garden city and Broad acres c) Garden city and City Beautiful Movement d) Linear city concept and City Beautiful Movement
The examples for the Islamic architecture in India for Imperial style, Provincial style and Mughal style are the following respectively. a) Lodhi Tomb Delhi, Gol Gumbad Bijapur and Humayun's Tomb Delhi. b) Qutb Minar Delhi, Khriki Masjid Delhi and Humanun's Tomb, Delhi. c) Lodhi Tomb Delhi, Gol Gumbad Bijapur and Atala Masjid, Jaunpur. d) Jami Masjid Ahmedabad, Gol Gumbad Bijapur and Humayun's Tomb, Delhi.

	during 1991 and is 40%. a) 6,55,200	2001 respectively. E b) 5,55,200	c) 4,55,200	in 2011 if the decadal growth rate d) 3,55,200
56	. Match the follow <u>Group-1</u> P. Pugin and Barr Q. Christopher W R. Piano and Rog S. Bernard Tschu	ry /ren gers	o-1 with their works in Group – 2 1. Pompidon Centre, 2. Parc de Vilette, Pa 3. St Paul's London 4. Westminster Palac	Paris
	a) P-4, Q-3, R c) P-3, Q-4, R		b) P-3, Q-4, R-1, S-2 d) P-4, Q-3, R-2, S-1	
57.	-	mprising 200 hectares 000. Calculate the net b) 4400 pph	residential density.	land put to residential plots and a d) 440 pph
58.			ctares and a residenting gross density of the c) 400 pph	ial area of 120 hectares. If net sector? d) 320 pph
59.	_	_		ng with uniform floor area. If the calculate the permissible ground d) 60%
	a) linear columnsb) vertical linear ec) sculptured fema	and beam forms of a telements defining voluate figures as columnate the between structura	me of transparent spacer supports for entablate	ework in Japanese palaces. ees in ancient Turkish domes.
	Group-1 P. Total Architect Q. Post Modernisi R. Brutalism S. Contemporary a) P-3, Q-1, R-	m Vernacular ·2, S-4	Group – 2 1. Charles Jencks 2. William Lim 3. Walter Gropius 4. Corbusier b) P-3, Q-1, R-4, S-2	
	c) P-1, Q-3, R- Find the correct n period. P. Amphi-theatre Q. Basilican churc R. Pnyx	natches in the given l	d) P-1, Q-3, R-4, S-2 ist of architectural enti 1. Early Christian 2. Gothic 3. Roman	ities and the architectural styles /
	S. Rose Window a) P-3, Q-1, R- c) P-3, Q-1, R-		4. Greek b) P-1, Q-3, R-4, S-2 d) P-1, Q-3, R-2, S-4	
			AE – ARC 5	

55. A town of 3,00,000 population in 1981 has exhibited decadal growth rate of 20% and 30%

ne architects with the buildings designed by them. Gehry 1. Smith House, Connecticut ard Meier 2. Menil Museum o Piano 3. AT&T Building, New York 4. Guggenheim Museum, Bilbao) Johnson -4, Q-1, R-2, S-3 b) P-1, Q-4, R-2, S-3 -1, Q-4, R-3, S-2 d) P-4, Q-1, R-3, S-2 he quotations with their authors. 1. Robert Venturi is a Bore 2. Mies Vander Rohe itecture is Circulation 3. John Ruskin 4. Corbusier I architecture can be made od people -1, Q-2, R-4, S-3 b) P-2, Q-1, R-3, S-4 -1, Q-2, R-3, S-4 d) P-2, Q-1, R-4, S-3 he meanings of the following architectural terms. 1. A molded band carried around an arch hiprostyle ivolt 2. A square beam forming the lowest horizontal component of entablature. 3. Hot room in Roman bath itrave 4. Classical temple type with a portico at both its front arium and rear b) P-4, Q-1, R-3, S-2 -4, Q-1, R-2, S-3 -1, Q-4, R-2, S-3 d) P-1, Q-4, R-3, S-2 the names of books with the authors. ards a New Architecture 1. Charles Jencks Language of Post Modern Architecture 2. R. Venturi plexity & Contradiction in Architecture 3. K. Frampton ern Architecture – A Critical History 4. Corbusier '-4, Q-1, R-3, S-2 b) P-4, Q-1, R-2, S-3 '-1, Q-4, R-3, S-2 c) P-1, Q-4, R-2, S-3 the architects with their buildings. ahar Kala Kendra, Jaipur 1. B.V. Doshi nya Community Housing, Indore 2. Bimal Patel epreneurship Development Institute, Ahmedabad 3. Roger Anger ru Mandir, Auroville 4. Charles Correa '-4, Q-1, R-3, S-2 b) P-1, Q-4, R-2, S-3 '-4, Q-1, R-2, S-3 d) P-1, Q-4, R-3, S-2 the right kind of statutory provision to enforce integrated urban conservation. in Arts Commission Act servation of Energy Act servation of Natural Resources Act servation of Ancient Monuments and Sites Act rchitectural theory which undermines conventional notions of harmony, unity and

b) deconstruction

talism

y, breaks continuity and disturbs relationship between interior and exterior, is known as

c) neo-rationalism

d) blob architecture

70. Match the following:- Vehicle Type P. Car Q. 2-Wheeler automobile R. Bus S. Agriculture tractor / tra	PCI 1. 1 2. 1 3. 4 4. 0 5. 2 6. 0	.5 .0 .0 .5 .2					
a) P-2, Q-4, R-5, S-3 c) P-4, Q-2, R-3, S-6	,	2-2, Q-4, R-3, S-5 2-2, Q-4, R-5, S-1					
a) the great migration from b) technological advances c) the process of urban dec	 The period between 1870 and 1940 was the era of metropolitan development in the USA Identify the factor that was NOT responsible for metropolitan development. a) the great migration from Europe. b) technological advances in highway and high-rise engineering c) the process of urban decentralization d) the comparative advantages of World Wars and Marshall Plan 						
72. Identify the criteria that are P. high building density Q. small courtyards R. small openings S. large openings T. thick walls U. thin walls. a) Q,R,S,T	e best suited for bu		and dry climate. d) P,Q,R,T	*			
73. In a residential community expected enrolment is 80% coverage permissibility is assuming it is simgle store a) 1.7 hectare b) 2	% and per capita g 40%. Indicate the	ross floor space required,	juired is 3.0 sqm. The gray for the High School built	roun			
74. Match the type of land use P. Vacant Q. Agricultural R. Transportation S. Public & Semi-Public a) P-4, Q-1, R-3, S-2 c) P-1, Q-4, R-2, S-3,	1. B 2. R 3. G 4. W b) P-	luish green ed rey					
one dwelling unit and the sto roads, schools, parks and Plot Size Number 500 sq m 100 300 sq m 500 200 sq m 1000 What are the gross and net a) 200 ppha and 300 ppha c) 200 ppha and 100 ppha	density respectivel b) 50 d) 10	size is 5 persons.	The rest of the area is decomposed sons per hectare (ppha)?				
	AE-	ARC 7					