PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (July-2023) for Recruitment to the post of Assistant Architect (Group-A) in the Departments of Local Govt. & PWD, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120 Time Allowed: 2 Hours

Candidate's	Name	Question
Father's Nai	me	Booklet Set
Date of Birtl	h	
	DD MM YYYY	
OMR Respo	onse Sheet No	
Roll No		Booklet Series
Candidate's	S Signature (Please sign in the box)	
	INSTRUCTIONS	
meantime above in	lidate shall NOT open this booklet till the time told to do so by the Invigine, the candidate can read these instructions carefully and subsequently fill the CAPITAL letters. The candidate may also fill the relevant boxes out of OMR) response sheet, supplied separately.	he appropriate columns given
	blue or black ball point pen to fill the relevant columns on this page as wor any other pen is not allowed.	vell as in OMR sheet. Use of
3. The cand incomple	didate shall be liable for any adverse effect if the information given abete.	ove is wrong or illegible or
	didate is required to attempt 120 questions in 120 minutes, except for orthes, who would be given 40 extra minutes, for marking correct responses on	
5. The ques	stion paper booklet has 21 pages.	
that the b	idates, when allowed to open the question paper booklet, must first check booklet has complete number of pages, the pages printed correctly and ther any such error in the question paper booklet then the candidate should IMMI be of the Invigilation Staff and obtain a new booklet of the same series as given	e are no blank pages. In case EDIATELY bring this fact to
of the Ol	Il number of the new Question booklet if issued for some reason should be en MR. The Invigilation Staff must make necessary corrections in their records. of Question booklet.	
	per consists of total 480 Marks. Each question shall carry 4 marks. The and the candidate has to mark the MOST APPROPRIATE answer on the O	
9. There is a	negative marking (1 mark for each question) for questions wrongly answere	ed by the candidate.

11. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before answering the questions

10. Use of Electronic/Manual Calculator is prohibited.

and check that two carbon copies attached to the OMR sheet are intact.

- 1. World's first bronze sculpture was found in: a) Harappa b) Mohenjodaro c) Lothal d) Rakhigarhi 2. Gopuram is an element of: a) Dravidian Architecture b) Indo-Aryan Architecture c) Jain Temple Architecture d) Rock Cut Temple Architecture 3. Shaking minarets are located in: a) Ahmedabad b) Agra c) Jaipur d) Hyderabad 4. An inclined section through a Cone will be seen as: a) Hexagon b) Hyperbola c) Spiral d) Ellipse 5. How many faces does a Dodecahedron has? a) 12 b) 20 c) 30 d) 8 6. What is the minimum slope for climbing a ramp using wheelchair? a) 1:8 b) 1:10 c) 1:12 d) 1:14 7. What is the minimum height of bathroom as per NBC?
- a) 2.2 m

 - b) 2.8 m
 - c) 2.75 m
 - d) 2.4 m
- 8. What does the Horizon line in a perspective represent?
 - a) Height of the object
 - b) Eye level of observer
 - c) Distance from Picture plane
 - d) Cone of Vision

9.	What a	are the stones or bricks at the corner of a building called?
	a)	Jamb
	b)	Course
	c)	Quoin
	d)	Rebate
10	What	a the manager of Couhan in atmost and at a 19
10.		s the percentage of Carbon in structural steel? 5 to 8 %
	,	> 18 %
	,	1 to 2 % < 0.5 %
	u)	< 0.3 %
11.		term is used for Heating and slow Cooling of metals?
		Tempering
		Annealing
	,	Hardening
	d)	Melting
12.	Which	defect of timber occurs between or through annual growth rings?
		Knot
	,	Shake
	c)	Decay
	d)	Split
13.	Which	truss is most suitable for glare free lighting in workshops?
		North light truss
		King post truss
		Fink truss
	,	Warren Truss
14.	Lancet	Arch is also called arch?
		Draped arch
		Ogee arch
		Acute arch
	,	Multifoil arch
	u)	Multifoli arcii
15.		Charcoal and gypsum is used in paints as a
	,	Plasticizer
	b)	Inert filler
		Antiskinning agent
	d)	Thinner
16.	Which	is a mode of failure in a structural member?
	a)	Buckling
	b)	Compression
	c)	Torsion
	d)	Equilibrium

17. Which	of the following is a criterion for design of Storm water drainage?
	Catchment Area
b)]	Population of a City/ town
	Number of cloudy days
	Solar irradiance
,	
18. The acc	eptable noise level in Hospital corresponds to which of the following?
a)	10-15 dB
b) :	35-40 dB
c) (60-65 dB
d) !	90-100 dB
10 Lumino	ous intensity is expressed in which units?
	Watt
,	Lumens
,	Wall per metre
	Candela
u) ·	Canacia
20. A resid	ence has a terrace area of 50 m ² and runoff coefficient of 0.5. For an average
	of 500 mm, the rainwater harvesting potential from terrace shall bem ³ ?
	1.25
,	12.5
c)	
,	1250
	the following is a passive design feature?
	Solar Chimney
· · · · · · · · · · · · · · · · · · ·	Air Cooler
*	Exhaust Fan
d) .	Air Conditioner
22 Which G	reen rating system is followed in United Kingdom?
	CASBEE
,	GRIHA
,	BREEAM
,	Green Mark
u) ·	Green wark
23. Calculate	the maximum number of 100 sq. m. apartments that can be constructed on a
	plot, having ground coverage of 40 percent and an FAR of 1.5
a)	
b) (
c) :	
d)	

24. A Smar	City DOES NOT include which among the following?
	Information and Communication Technology
b)	Management Information System
c)	Surveillance System
d)	Urban Heat Index
25. What ha	as replaced the Planning Commission in 2017?
a)	Ayushman Bharat Yojna
b)	Valmiki Ambedkar Awas Yojna
c)	Two Million Housing Programme
d)	NITI Aayog
	n space, Hill, Pond, Zen, Curved elements and use of Symbolic features is a
	stic feature of gardens.
	Mughal
	English
,	Italian
d)	Japanese
27. Which o	of the following is NOT an Adhesive?
a)	Epoxy Resin
b)	Vinyl
c)	Urea Formaldehyde
d)	Phenyl Formaldehyde
28. An ear	thquake with a Richter Scale of 6.0 is classified as
a)	Strong
b)	Mild
c)	Little
d)	Insignificant
29. The full	form of AMRUT is
a)	Augmented Monuments for Recreation and Urban Transportation
b)	Atal Mission for Recreation and Urban Transportation
c)	Atal Mission for Rejuvenation and Urban Transformation
d)	Associated Monuments for Recreation and Urban Transformation
30. Grade	M-25 of concrete mix refers to:
· · · · · · · · · · · · · · · · · · ·	1:2:4
,	1:3:6
· · · · · · · · · · · · · · · · · · ·	1:1:3
d) î	1:1:2

- 31. If the successful tender fails to submit the additional performance security within ______ no. of working days from the date of issue of letter of acceptance, his earnest money will be forfeited.
 - a) 7
 - b) 15
 - c) 21
 - d) 28
- 32. Plans used to identify site in relation to town plan or other wider context are called:
 - a) General location Plans
 - b) Site plans
 - c) Layout plans
 - d) Reflected Plan
- 33. India habitat center, New Delhi, was designed by:
 - a) Charles Correa
 - b) Raj Rewal
 - c) Joseph Allen Stein
 - d) A. P. Kanvinde
- 34. In CMYK colour model, 'C represents the colour:
 - a) White
 - b) Black
 - c) Blue
 - d) Green
- 35. New parliament house, New Delhi, is designed by:
 - a) Hafez contractor
 - b) Raj Rewal
 - c) Herbert Baker
 - d) Bimal Patel
- 36. Hoop and circumferential forces are associated with:
 - a) Dome
 - b) Truss
 - c) Folded Plate
 - d) Cylinder
- 37. Recommended height for the wash basin as per barrier free norm is:
 - a) 500 600 mm
 - b) 600 850 mm
 - c) 700 800 mm
 - d) 800 900 mm

- 38. The solar protection system consisting of fixed slates or grids outside a building façade in front of openings is known as:
 - a) Solarium
 - b) Trombe Wall
 - c) Malqaf
 - d) Brise-soleil
- 39. Which of the following is the correct sequence from top to bottom for the elements used in the Entablature in ancient Greek Architecture?
 - a) Cyma recta, Corona, Dentil, Frieze, Architrave
 - b) Corona, Cyma recta, Architrave, Frieze, Dentil
 - c) Architrave, Frieze, Corona, Dentil, Cyma recta
 - d) Dentil, Cyma recta, Corona, Frieze, Architrave
- 40. Which of the following is a temple having an apsidal plan?
 - a) Lad Khan Temple, Aihole
 - b) Virupaksha Temple, Pattadakal
 - c) Brihadeshwara Temple, Tanjore
 - d) Papanatha Temple, Pattadakal
- 41. For a PERT activity, the optimistic time, the most likely time and pessimistic time are 1, 2 and 9 days respectively. The expected time for the activity(in days) is:
 - a) 9
 - b) 6
 - c) 4
 - d) 3
- 42. Line up to which the plinth of a building adjoining a street may be law-fully extended is called:
 - a) Building line
 - b) Building boundary
 - c) Building extend
 - d) Building plan
- 43. The raft slab is projected beyond the outer walls of the structure by:
 - a) 5 to 10 cm
 - b) 15 to 20 cm
 - c) 25 to 30 cm
 - d) 30 to 45 cm
- 44. Which type of truss is characterized by multiple diagonal members forming a series of V-shapes?
 - a) Warren truss
 - b) Pratt truss
 - c) K truss
 - d) Vierendeel truss

- 45. A property fetches a net income of Rs.1000/- deducting all outgoings. Workout the capitalized value of the property if the rate of interest is 5% per annum.
 - a) Rs.5000
 - b) Rs.20000
 - c) Rs.10000
 - d) Rs.24000
- 46. According to National Building Code of India, Industrial buildings are categorized under which group of occupancy?
 - a) Group G
 - b) Group E
 - c) Group F
 - d) Group H
- 47. The illumination level of a room is 350 lux and the efficacy of the lamps is 50. What will be the Light Power Density (LPD) of the room in Watt/m²?
 - a) $5 \text{ Watt/ } \text{m}^2$
 - b) 7 Watt/ m²
 - c) $10 \text{ Watt/ } \text{m}^2$
 - d) $8 \text{ Watt/ } \text{m}^2$
- 48. Find the reverberation time of a hall having dimensions 50m x 25m x 35m and having the absorption coefficient of 0.15.
 - a) 1.8 sec
 - b) 2.8 sec
 - c) 3.8 sec
 - d) None of the above
- 49. When the load are reversing, the beam is designed as:
 - a) Singly reinforced
 - b) Doubly reinforced
 - c) Over-reinforced
 - d) Cantilever beam
- 50. In planning for malls, the required public and toilet facilities shall be located not more than one storey above or below the space to be served with such facilities, and the path of travel to such facilities shall not exceed:
 - a) 89 m
 - b) 90 m
 - c) 91 m
 - d) 92 m

- 51. A building with a green roof is an example of:
 - a) Climate-responsive design in a hot and humid climate
 - b) Climate-responsive design in a cold climate
 - c) Climate-responsive design in a tropical climate
 - d) Climate-responsive design in an urban environment
- 52. As per National Building Code of India 2016, area for each equivalent car space inclusive of circulation area for open parking, ground floor covered parking and basement respectively is
 - a) 22 sqm, 25 sqm, 30 sqm
 - b) 23 sqm, 28 sqm, 32 sqm
 - c) 20 sqm, 25 sqm, 30 sqm
 - d) 24 sqm, 28 sqm, 32 sqm
- 53. In Autodesk AutoCAD, when in absolute Cartesian coordinates have points A(10.8) and B(6.5), then to make a line from A to B with relative polar coordinates will write:
 - a) @-5<36.88
 - b) @4<30
 - c) @5<216,88
 - d) @3<60
- 54. What type of mode of failure is seen if footing is resting on very dense sand, loaded by transient dynamic loads?
 - a) Local Shear failure
 - b) Transient Shear failure
 - c) Punching Shear failure
 - d) Flexural Failure
- 55. For signage, what should be the minimum height of letters in mm for a viewing distance of 12 m?
 - a) 30
 - b) 32
 - c) 40
 - d) 45
- 56. The modified form of old English cross bond which consists of alternative courses of headers and stretchers is known as:
 - a) Raking bond
 - b) Dutch bond
 - c) Header bond
 - d) Facing bond

57. Match List I (Pozzolana) with List II (Properties) and select the correct option

from the codes given below:

	List I	List II	
A	Iron oxide	1.	Prevent the flash setting of cement.
В	NaCl	2.	Provides strength to the cement.
С	Silica	3.	Accelerates the rate of setting of Plaster of Paris
D	Gypsum	4.	Gives colour to the cement.

Codes:

	Α	В	C	D
a)	2	4	1	3
b)	4	3	2	1
c)	3	1	4	2
d)	1	2	3	4

58. Match the plants in List I with their prime uses in List II:

List I						List II
A. Big	nonia	a magnit	fica			1. Grass cover
B. Ixo	ra chi	nensis				2. Wall climbers
C. Cas	sia fi	stula				3. Topiary
D. Wedeliatrilobata					4. Arboriculture	
Codes	:					
		A	В	C	D	
	a)	4	1	2	3	
	b)	4	3	1	2	
	c)	2	3	4	1	
	d)	3	2	4	1	

- 59. A casement window hung horizontally is called _____ window.
 - a) Hopper
 - b) Awning
 - c) Pivot
 - d) Transom
- 60. What is Postmodernism in architecture primarily defined as?
 - a) A historical revival movement
 - b) A reaction against modernism
 - c) A formalist belief in function over form
 - d) A style based around the use of modern materials

61. Interface of		_	zones i	s termed	as:
a) Prom		es			
b) Ecote					
c) Bion					
d) Ecos	ystem				
	hoose tl t I	he corre	ect option		st I with their appropriate contribution from the codes given below: List II 1. Kew gardens
B. Andre le	_	inty Di	OWII		2. Versailles garden
C. Joseph P					3. Central park
D. Frederic		Olmster	nd		4. Crystal Palace
D. Trederies	x Law (Jinste	ıd		4. Crystar r arace
Codes:					
	A	В	C	D	
a)	3	1	4	2	
b)	1	3	4 4 3	2	
c)	1	2	3	4	
d)	1	2	4	3	
a) Japan b) Mug c) Chin d) Engl 64. In horizonta a) 8 CM b) 4 CM c) 3 CM d) 6 CM	hal gardese gardish gard	den len	kness o	f the cen	nent concrete is
65. A roof with a) Gamb b) Gabel c) Skillid d) Frence	rel roof roof on and I	:	irections	s with a l	break in slope on each side is called as:
	00 respector contract 6000 6000 00000	ectively		-	contractor for bidding a project is Rs.160000 applied is 10% of the bid price, the quoted

- 67. The PVCN range of paint for prime coat on metals is:
 - a) 50-70
 - b) 25-40
 - c) 50-60
 - d) 55-60
- 68. Which of the following constructions is effective against both air-borne and structure-borne sounds?
 - a) Timber floor floating construction
 - b) Use of resilient surface material
 - c) Timber floor with suspended ceiling and air space
 - d) Concrete floor floating construction
- 69. The echo will be detectable to a human ear in which of the following room dimension? Assume that the surfaces are not good absorbers.
 - a) 4m x 5m
 - b) 18m x 4m
 - c) 10m x 3m
 - d) 12m x 12m
- 70. Maintenance Ratio in lighting calculation is defined as:
 - a) The ratio of illumination under normal working conditions to the illumination when everything is clean.
 - b) The ratio of illumination under normal working conditions to the illumination when everything is dirty.
 - c) The cost of human labor to clean 1SqM of the surface
 - d) None of the above
- 71. Which of the following features of Indian temples resembles pylons of the Egyptian temples?
 - a) Vimana
 - b) Shikara
 - c) Gopura
 - d) Antarala
- 72. Which of the following architectural structures is not a contribution of Sir Edwin Lutyen?
 - a) Rashtrapati Bhavan
 - b) Parliament House
 - c) Hyderabad House
 - d) Connaught Place
- 73. What is another name of 'Gate of Magnificence, the highest gateway of India at Fatehpur Sikri built by Akbar?
 - a) Teen Darwaza
 - b) Alai Darwaza
 - c) Buland Darwaza
 - d) India Gate

- 74. Service tax rate for architectural consultancy fees in India is:
 - a) 5%
 - b) 12%
 - c) 18%
 - d) 24%
- 75. Which of the following gives the highest sound absorption in a room?
 - a) Rigid wall
 - b) Rough ceiling
 - c) Soft curtain
 - d) Open window
- 76. The rafter that makes the closed triangular end of a pitched roof in timber is called:
 - a) Jack rafter
 - b) Valley rafter
 - c) Common rafter
 - d) Hip rafter
- 77. In case of a double roof of timber, which of the following statement is not correct?
 - a) The rafter is supported on purlins
 - b) The purlins is supported on end walls
 - c) The batten is supported on rafters
 - d) The purlin is supported on trusses
- 78. Trapezoidal footing is a:
 - a) Column footing
 - b) Combined footing
 - c) Stepped footing
 - d) Deep foundation
- 79. In pressure supply mains, water hammer pressure is reduced by providing:
 - a) Sluice valves
 - b) Air valves
 - c) Pressure relief valves
 - d) Suction Valve
- 80. Mostly used coagulant is:
 - a) Chlorine
 - b) Alum
 - c) Lime
 - d) Bleaching powder

81. Associate the plans in List I with the options in List II and choose the correct option from the codes given below:

List I	List II
A. City Development plan	1. PMGSY
B. Slum Free City Plan	2. JNNURM
C. Transport Network Plan	3. RAY
D. Disaster Management Plan	4. NDMA

Codes:

	Α	В	C	D
a)	2	3	1	4
b)	3	2	1	4
c)	2	1	3	4
d)	1	3	2	4

- 82. Which of the following Mud wall construction is preferred in Earthquake prone zones?
 - a) Adobe
 - b) Wattle and Daub
 - c) Stabilized mud block
 - d) Rammed earth
- 83. Minimum height of habitable rooms is
 - a) 2.5 m
 - b) 2.75 m
 - c) 1.5 m
 - d) 2 m
- 84. What is the type of slab in which some part of cement is replaced with cheap light weight material?
 - a) Collar slab
 - b) Waffle slab
 - c) Flat slabs
 - d) Filler slab
- 85. Which of the following is a non-natural defect in wood?
 - a) Chemical Stain
 - b) Twisted fibre
 - c) Upsets
 - d) Conversion
- 86. Clerestory windows are high and vertically placed windows. They can be used to increase when oriented towards the equator.
 - a) Indirect gain
 - b) Isolated gain
 - c) Direct Solar gain
 - d) Indirect heat gain

	eight of the room gives better ventilation due to
,	Venturi effect
· · · · · · · · · · · · · · · · · · ·	Bernoulli's effect Stack Effect
,	Light effect
u) i	Light effect
88. Beaufort Sc	
	cale representing wind speed
	cale for measuring humidity
	cale for measuring earthquake
a) S	cale measuring landslide
	be provided for a residence with floor height of 3m. If the space available for
	m x 2.5m, what kind of stair you propose?
	pen-well
,	ifurcated
,	og-legged
d) A	Il the above
90. The joists in Floor.	a Single Timber Floor is provided, while it isin a Double
a) ac	cross the span, along the span
	ong the span, across the span
c) ac	cross the span, across the span
d) al	ong the span, along the span
	e Mughal Monuments marked a new beginning in the style of architecture of with the dome made of marble as its most remarkable feature?
a) l	Badshahi Mosque
	Bibi ka Maqbara
· · · · · · · · · · · · · · · · · · ·	Humayun's Tomb
*	Γaj Mahal
<i>u)</i>	raj Manar
92. Takht Sri D	amdama Sahib, one of the five takhts of Sikhs is situated in:
a) l	Patiala
b) 7	Гalwandi Sabo
c) A	Amritsar
d) J	Jalandhar
03 Who was th	e first Punjabi writer to receive Jnanpith Award?
	Amrita Pritam
′	Gurdial Singh
	burjit Paatan
	Chushwant Singh
u) N	Midaliwani alligii

- 94. For how many years, a person of Indian origin must have been an ordinary resident of India before making application towards getting citizenship by registration?
 - a) 10
 - b) 8
 - c) 5
 - d) 7
- 95. Concrete and fiber glass are_____
 - a) Composite materials
 - b) Ceramic materials
 - c) Polymers
 - d) Semiconductors
- 96. The pH value of acidic medium is:
 - a) More than 7
 - b) Equal to 7
 - c) More than 10
 - d) Less than 7
- 97. Radiation therapy (Radiotherapy) is used for treatment of various types of cancers, and it is based on application of radiations. Which of the following radiations are mostly used for radiotherapy for cancer?
 - a) Gamma radiations
 - b) UV- radiations
 - c) Microwave radiations
 - d) Infrared radiations
- 98. In which of the following states the newly built state secretariat building was inaugurated in the last week of April, 2023?
 - a) Odisha
 - b) Andhra Pradesh
 - c) Chhattisgarh
 - d) Telangana
- 99. By which of the following Acts was the Governor General of Bengal designated as the Governor General of India?
 - a) The Regulation Act of 1773
 - b) The Pitt's India Act of 1784
 - c) The Charter Act of 1793
 - d) The Charter Act of 1833
- 100. Which of the following is a world famous beach for the 'Arribada' (arrival) of Olive Ridley Turtles in India?
 - a) Gahirmatha Beach, Orissa
 - b) Marina Beach, Chennai
 - c) Gulf of Kutch, Gujarat
 - d) Kovalam Beach, Kerala

- 101. In a group of 30 people, 15 like coffee, 10 like tea, and 5 like both coffee and tea. How many people do not like either coffee or tea?
 a) 5
 b) 10
 c) 15
 d) 20
- 102. A train travels from Station A to Station B at a speed of 60 km/h and returns from Station B to Station A at a speed of 45 km/h. What is the average speed of the train for the entire journey?
 - a) 51.4 km/h
 - b) 50.3 km/h
 - c) 55 km/h
 - d) 48 km/h
- 103. In a classroom, there are 15 students sitting in a row. If the top 3 students with the highest scores are to be selected as the class representatives, how many different ways can this be done?
 - a) 455
 - b) 336
 - c) 136
 - d) 90
- 104. C is the father-in-law of D, who is the mother of E, who is the son of B. How is B related to C?
 - a) Husband
 - b) Son
 - c) Daughter
 - d) Brother
- 105. A person is standing at a point X. He walks 10 meters towards the east, turns left and walks 15 meters, turns right, and walks 20 meters, turns left and walks 30 meters, turns left again and walks 10 meters, and finally, turns right and walks 20 meters. In which direction is the person facing now?
 - a) North
 - b) West
 - c) East
 - d) South
- 106. According to a military code, TATTOO is TATOOT and MAKEUP is KAMPUE. What is the code for GORGEOUS?
 - a) SUOEGROG
 - b) GORGSUOE
 - c) GROGSUOE
 - d) GROGEOUS

107. If the ratio of the ages of two brothers is 5:7 and the sum of their ages is 60 years, what is the age of the younger brother? a) 20 years b) 25 years c) 30 years d) 35 years
108. A clock gains 5 minutes every hour. If the clock is set to the correct time at 12:00 PM, what time will it show after 14 hours? a) 3:10 AM b) 2:50 AM c) 3:30 AM d) 2:55 AM
109. What is the next number in the series: 1, 4, 27, 256, 3125, ? a) 46656 b) 16875 c) 7776 d) 15625
110. Select the most appropriate analogy from the choices given below: DETERIORATE: IMPROVE a) feckless: careless b) evanescent: exigent c) hope: hone d) obstinate: tractable
111. 'ਸੱਤ੍ਹਰਿਆ-ਬਹੱਤਰਿਆ ikDk' ਦk nਰਥ ਹੈ:
a) ਗਿਣਤੀ ਕਰਨੀ
b) ਬਿਨਾਂ ਕkਰਣ ਕਿਤੇ ਜkਣk c) ਬੁਢੇਪk ਆਉਣk
c) ਬੁਢਧਲ ਆਉਣਲ d) nਕਲ ਮkਰੀ ਜkਣੀ
ਹਾ ਸਕੂਲ ਸਨੂੰ ਸਨੂੰ ਸਨੂੰ 112. ਉਪਕੁਸ਼ਰ, ਉਪਯੋਗ, ਉਪਨੁਸ਼ਮ ਸ਼ਬਦਾਂ ਵਿੱਚ ਕਿਹੜਾ ਸਗੇਤਰ ਵਰਤਿਆ ਗਿਆ ਹੈ:
a) g
b) ਉਪ

c) **ਉ**ਪk

d) ੳ

113.	'ਸkਡੀnK ਕੋਠੀnK ਬਹੁ	ਤ ਵੱਡੀnK ਹਨ।' ਦk ਵਜ	ਰਨ ਬਦਲੋ:	
	a) ਮੇਰੀ ਕੋਠੀ ਬਹੁਤ	ਵੱਡੀnK ਹਨ।		
	b) ਸkਡੀnK ਕੋਠੀr	ıĸ ਬਹੁਤ ਵੱਡੀ ਹੈ।		
	c) ਮੇਰੀ ਕੋਠੀnK ਬ	ਹੁਤ ਵੱਡੀnK ਹੈ ।		
	d) ਮੇਰੀ ਕੋਠੀ ਬਹੁਤ	ਵੱਡੀ ਹੈ।		
114.	nz ਗਰੇਜ਼ੀ ਦੇ ਜੂਨ-ਜੁਲ k	ਈ ਮਹੀਨੇ ਵਿੱਚ ਕਿਹੜk ਚ	ਦੇਸੀ ਮਹੀਨk ਆਉਂਦk ਹੈ?	
	a) ਸkਵਣ			
	b) ਜੇਠ			
	c) ਹkੜ੍ਹ			
	d) ਵਸ kਖ			
115.	ਰਚਨk ਦੁਆਬ ਕਿਹੜੇ ਚ	ਟਰਿਆਵਾਂ ਵਿਚਕkਰ ਦk	ਇਲkਕk ਹੈ?	
	a) ਚਨkਬ-ਜੇਹਲਮ			
	b) ਚਨkਬ-ਰkਵੀ			
	c) ਰkਵੀ-ਬਿਆਸ			
	d) ਬਿਆਸ-ਚਨkਬ			
116.	'qokV' dw ivr	oDwrQk Sbd hY		
	a) m`J	b) s`jr	c) aUTxI	d) srdI
117.	j/m fbfynK ftu	'A fejVk ;a[ZX	gzikph ;apd o{g j?	<
guAwf	a) gvWf	b) guAWf	c) guAWF	d)
118.	'It has been drizzlin	g since morning' dw	pMjwbI rUp hY:	
	a) svyr q	oN bMUdw-bWdI ł	no rhI hY[
	b) svyr q	oN mINh pY irhw	hY[
	c) svyr o	qoN hvw c`l rhI	hY[
	d) svyr q	oN gVHy pY rhy	hn[
	, 4 4		-	

119 .ਹੇਠ ਲਿਖੇ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ 'ਉੱਲੂ' ਦk ਇਸਤਰੀ ਲਿੰਗ ਚੁਣੋ:

- a) ਉੱਲੂ b) ਉੱਲਣੀ
- c) ਬਟੇਰ d) ਬਤੌਰੀ

120. 'ਸੰਗ' ਦk ਇਕ nਰਥ ਹੈ 'ਸ਼ਰਮ' nਤੇ ਦੂਜk nਰਥ ਹੈ:

- a) ਸkਥ
- b) ਹkਲ
- c) ਕੱਚk d) nzਗ

SPACE FOR ROUGH WORK

PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (July-2023) for Recruitment to the post of Assistant Architect (Group-A) in the Departments of Local Govt. & PWD, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120 Time Allowed: 2 Hours

	Tille Allowed. 2 Ho
Candidate's Name	Question
Father's Name	Booklet Set
Date of Birth	
DD MM YYYY	
OMR Response Sheet No.	
Roll No Candidate's Signature (Please sign in the box)	Booklet Series
Candidate 8 Signature (Please sign in the box)	
INSTRUCTIONS	
The candidate shall NOT open this booklet till the time told to do so by meantime, the candidate can read these instructions carefully and subsequabove in CAPITAL letters. The candidate may also fill the relevant be Reader (OMR) response sheet, supplied separately.	ently fill the appropriate columns given
Use only blue or black ball point pen to fill the relevant columns on thi Ink pen or any other pen is not allowed.	s page as well as in OMR sheet. Use of
3. The candidate shall be liable for any adverse effect if the information incomplete.	n given above is wrong or illegible or
4. Each candidate is required to attempt 120 questions in 120 minutes, exceed candidates, who would be given 40 extra minutes, for marking correct res	
5. The question paper booklet has 21 pages.	
6. The candidates, <u>when allowed to open</u> the question paper booklet, <u>must for that the booklet has complete number of pages</u> , the pages printed correct there is any such error in the question paper booklet then the candidate she the notice of the Invigilation Staff and obtain a new booklet of the same s	ly and there are no blank pages. In case ould IMMEDIATELY bring this fact to
7. The serial number of the new Question booklet if issued for some reason s of the OMR. The Invigilation Staff must make necessary corrections in serial no. of Question booklet.	
8. The paper consists of total 480 Marks. Each question shall carry 4 m question and the candidate has to mark the MOST APPROPRIATE answ	
9. There is negative marking (1 mark for each question) for questions wrong	gly answered by the candidate.

11. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before answering the questions

10. Use of Electronic/Manual Calculator is prohibited.

and check that two carbon copies attached to the OMR sheet are intact.

- 1. 'ਸੱਤ੍ਹਰਿਆ-ਬਹੱਤਰਿਆ ikdk' ਦk nਰਥ ਹੈ: a) ਗਿਣਤੀ ਕਰਨੀ b) ਬਿਨਾਂ ਕkਰਣ ਕਿਤੇ ਜkਣk c) ਬੁਢੇਪk ਆਉਣk d) nਕਲ ਮkਰੀ ਜkਣੀ 2. ਉਪਕkਰ, ਉਪਯੋਗ, ਉਪਨkਮ ਸ਼ਬਦਾਂ ਵਿੱਚ ਕਿਹੜk nਗੇਤਰ ਵਰਤਿਆ ਗਿਆ ਹੈ: a) 🕏

 - b) ਉਪ
 - c) **ਉ**ਪk
 - d) ਓ
- 3. 'ਸkਡੀnK ਕੋਠੀnK ਬਹੁਤ ਵੱਡੀnK ਹਨ।' ਦk ਵਚਨ ਬਦਲੋ:
 - a) ਮੇਰੀ ਕੋਠੀ ਬਹੁਤ ਵੱਡੀnK ਹਨ।
 - b) ਸkਡੀnк ਕੋਠੀnк ਬਹੁਤ ਵੱਡੀ ਹੈ।
 - c) ਮੇਰੀ ਕੋਠੀnK ਬਹੁਤ ਵੱਡੀnK ਹੈ।
 - d) ਮੇਰੀ ਕੋਠੀ ਬਹੁਤ ਵੱਡੀ ਹੈ।
- 4. nzਗਰੇਜ਼ੀ ਦੇ ਜੂਨ-ਜੁਲkਈ ਮਹੀਨੇ ਵਿੱਚ ਕਿਹੜk ਦੇਸੀ ਮਹੀਨk ਆਉਂਦk ਹੈ?
 - a) ਸkਵਣ
 - b) ਜੇਠ
 - c) ਹkੜ੍ਹ
 - **d) ਵਸ**kਖ
- 5. ਰਚਨk ਦੁਆਬ ਕਿਹੜੇ ਦਰਿਆਵਾਂ ਵਿਚਕkਰ ਦk ਇਲkਕk ਹੈ?
 - a) ਚਨkਬ-ਜੇਹਲਮ
 - b) ਚਨkਬ-ਰkਵੀ
 - c) ਰkਵੀ-ਬਿਆਸ
 - d) ਬਿਆਸ-ਚਨkਬ

6.	'qokV' dw	ivroDwrQk	Sbd hY			
	a) m`J	b)	s`jr	c)	aUTxI	d) srdI
7. j	/m fbfynK	ftu'A fejV	/k ;a[ZX	gzikph	;apd o{g j	? <
guAwf	a) gvWf	b)	guAWf		c) guAWF	d)
8.	'It has been	drizzling since	morning' dv	w pMjwb	I rUp hY:	
	a) sv	yr qoN bMU	dw-bWdI h	no rhI	hY[
	b) sv	yr qoN mINh	n pY irhw	hY[
	c) s	yr qoN hvw	c`l rhI	hY[
	d) sv	yr qoN gVH	y pY rhy	hn[
9 .ਹੇਠ	ਲਿਖੇ ਸ਼ਬਦਾਂ ਵਿੱ	ਚੋਂ 'ਉੱਲੂ' ਦk ਇਸ	।ਤਰੀ ਲਿੰਗ ਚਣੋ	} :		
,		b) ਉੱਲਣੀ				
	•	₀₎ ਭੂਲਵਾ d) ਬਤੌਰੀ				
	0) 400	u) 4501				
10. 'ห็	iਗ' ਦk ਇਕ n	ਰਥ ਹੈ 'ਸ਼ਰਮ' nਤੋ	ੇ ਦੂਜk n ਰਥ ਹੈ] :		
	a) ਸ kਥ	·	o) ਹkਲ			
	c) ਕੱਚk	d) nZ ग				
11. W	Vorld's first br	onze sculpture	was found in	:		
	a) Harappa	-				
	b) Mohenj	odaro				
	c) Lothald) Rakhiga	arhi				
	d) Rakinge	,1111				
12. G	opuram is an					
	/	an Architecture yan Architectur	ro			
		nple Architectu				
		ut Temple Arch				
13. S	haking minare	ets are located in	n:			
	a) Ahmeda					
	b) Agra					
	c) Jaipurd) Hyderal	nad				
	a, Hydelat	Juu				

- 14. An inclined section through a Cone will be seen as: a) Hexagon b) Hyperbola c) Spiral d) Ellipse 15. How many faces does a Dodecahedron has? a) 12 b) 20 c) 30 d) 8 16. What is the minimum slope for climbing a ramp using wheelchair? a) 1:8 b) 1:10 c) 1:12 d) 1:14 17. What is the minimum height of bathroom as per NBC? a) 2.2 m b) 2.8 m c) 2.75 m d) 2.4 m 18. What does the Horizon line in a perspective represent? a) Height of the object b) Eye level of observer c) Distance from Picture plane d) Cone of Vision 19. What are the stones or bricks at the corner of a building called? a) Jamb b) Course c) Quoin d) Rebate 20. What is the percentage of Carbon in structural steel? a) 5 to 8 % b) > 18 %
- 21. Which term is used for Heating and slow Cooling of metals?
 - a) Tempering
 - b) Annealing

c) 1 to 2 % d) < 0.5 %

- c) Hardening
- d) Melting

22. V	Which	defect of timber occurs between or through annual growth rings?
	a)	Knot
	b)	Shake
	c)	Decay
	d)	Split
23 V	Which	truss is most suitable for glare free lighting in workshops?
		North light truss
		King post truss
		Fink truss
	,	Warren Truss
24 I	ancet	Arch is also called arch?
∠ 4 , 1		Draped arch
		Ogee arch
	,	Acute arch
	,	
	a)	Multifoil arch
25. \$	Silica,	Charcoal and gypsum is used in paints as a
		Plasticizer
	,	Inert filler
	,	Antiskinning agent
		Thinner
26 V	Which	is a mode of failure in a structural member?
20.		Buckling
		Compression
		Torsion
	,	Equilibrium
27.1	x 71 ' 1	
27. \		of the following is a criterion for design of Storm water drainage?
	,	Catchment Area
		Population of a City/ town
		Number of cloudy days
	d)	Solar irradiance
28. 7	The ac	ceptable noise level in Hospital corresponds to which of the following?
	a)	10-15 dB
	b)	35-40 dB
	c)	60-65 dB
	d)	90-100 dB
29. I	_umin	ous intensity is expressed in which units?
		Watt
	,	Lumens
	,	Wall per metre
		Candela

30. A residence has a terrace area of 50 m ² and runoff coefficient of 0.5. For an average
rainfall of 500 mm, the rainwater harvesting potential from terrace shall bem ³ ?
a) 1.25
b) 12.5
c) 125
d) 1250
31. Which of the following is a passive design feature?
a) Solar Chimney
b) Air Cooler
c) Exhaust Fan
d) Air Conditioner
32. Which Green rating system is followed in United Kingdom?
a) CASBEE
b) GRIHA
c) BREEAM
d) Green Mark
33. Calculate the maximum number of 100 sq. m. apartments that can be constructed on a 1-hectare plot, having ground coverage of 40 percent and an FAR of 1.5 a) 100 b) 60 c) 200
d) 150
34. A Smart City DOES NOT include which among the following?
a) Information and Communication Technology
b) Management Information System
c) Surveillance System
d) Urban Heat Index
35. What has replaced the Planning Commission in 2017?
a) Ayushman Bharat Yojna
b) Valmiki Ambedkar Awas Yojna
c) Two Million Housing Programme
d) NITI Aayog
36. Meditation space, Hill, Pond, Zen, Curved elements and use of Symbolic features is a characteristic feature of gardens. a) Mughal b) English c) Italian d) Japanese

37. Which o	of the following is NOT an Adhesive?
a)	Epoxy Resin
b)	Vinyl
c)	Urea Formaldehyde
d)	Phenyl Formaldehyde
	thquake with a Richter Scale of 6.0 is classified as
,	Strong
	Mild
,	Little
d)	Insignificant
39. The fu	ll form of AMRUT is
a)	Augmented Monuments for Recreation and Urban Transportation
b)	Atal Mission for Recreation and Urban Transportation
c)	Atal Mission for Rejuvenation and Urban Transformation
d)	Associated Monuments for Recreation and Urban Transformation
a) 1 b) 1 c) 1	M-25 of concrete mix refers to: ::2:4 ::3:6 ::1:3
	successful tender fails to submit the additional performance security withinworking days from the date of issue of letter of acceptance, his earnest money wil eited.
a)	7
b)	15
c)	21
d)	28
42. Plans ι	used to identify site in relation to town plan or other wider context are called:
· · · · · · · · · · · · · · · · · · ·	General location Plans
	Site plans
	Layout plans
a)	Reflected Plan
	nabitat center, New Delhi, was designed by:
,	Charles Correa
	Raj Rewal
	Joseph Allen Stein A. P. Kanvinde
u)	A. I. Mailvillu

- 44. In CMYK colour model, 'C represents the colour:
 - a) White
 - b) Black
 - c) Blue
 - d) Green
- 45. New parliament house, New Delhi, is designed by:
 - a) Hafez contractor
 - b) Raj Rewal
 - c) Herbert Baker
 - d) Bimal Patel
- 46. Hoop and circumferential forces are associated with:
 - a) Dome
 - b) Truss
 - c) Folded Plate
 - d) Cylinder
- 47. Recommended height for the wash basin as per barrier free norm is:
 - a) 500 600 mm
 - b) 600 850 mm
 - c) 700 800 mm
 - d) 800 900 mm
- 48. The solar protection system consisting of fixed slates or grids outside a building façade in front of openings is known as:
 - a) Solarium
 - b) Trombe Wall
 - c) Malgaf
 - d) Brise-soleil
- 49. Which of the following is the correct sequence from top to bottom for the elements used in the Entablature in ancient Greek Architecture?
 - a) Cyma recta, Corona, Dentil, Frieze, Architrave
 - b) Corona, Cyma recta, Architrave, Frieze, Dentil
 - c) Architrave, Frieze, Corona, Dentil, Cyma recta
 - d) Dentil, Cyma recta, Corona, Frieze, Architrave
- 50. Which of the following is a temple having an apsidal plan?
 - a) Lad Khan Temple, Aihole
 - b) Virupaksha Temple, Pattadakal
 - c) Brihadeshwara Temple, Tanjore
 - d) Papanatha Temple, Pattadakal

- 51. For a PERT activity, the optimistic time, the most likely time and pessimistic time are 1, 2 and 9 days respectively. The expected time for the activity(in days) is:
 - a) 9
 - b) 6
 - c) 4
 - d) 3
- 52. Line up to which the plinth of a building adjoining a street may be law-fully extended is called:
 - a) Building line
 - b) Building boundary
 - c) Building extend
 - d) Building plan
- 53. The raft slab is projected beyond the outer walls of the structure by:
 - a) 5 to 10 cm
 - b) 15 to 20 cm
 - c) 25 to 30 cm
 - d) 30 to 45 cm
- 54. Which type of truss is characterized by multiple diagonal members forming a series of V-shapes?
 - a) Warren truss
 - b) Pratt truss
 - c) K truss
 - d) Vierendeel truss
- 55. A property fetches a net income of Rs.1000/- deducting all outgoings. Workout the capitalized value of the property if the rate of interest is 5% per annum.
 - a) Rs.5000
 - b) Rs.20000
 - c) Rs.10000
 - d) Rs.24000
- 56. According to National Building Code of India, Industrial buildings are categorized under which group of occupancy?
 - a) Group G
 - b) Group E
 - c) Group F
 - d) Group H
- 57. The illumination level of a room is 350 lux and the efficacy of the lamps is 50. What will be the Light Power Density (LPD) of the room in Watt/m²?
 - a) 5 Watt/ m^2
 - b) 7 Watt/ m²
 - c) $10 \text{ Watt/ } \text{m}^2$
 - d) $8 \text{ Watt/ } \text{m}^2$

- 58. Find the reverberation time of a hall having dimensions 50m x 25m x 35m and having the absorption coefficient of 0.15.
 - a) 1.8 sec
 - b) 2.8 sec
 - c) 3.8 sec
 - d) None of the above
- 59. When the load are reversing, the beam is designed as:
 - a) Singly reinforced
 - b) Doubly reinforced
 - c) Over-reinforced
 - d) Cantilever beam
- 60. In planning for malls, the required public and toilet facilities shall be located not more than one storey above or below the space to be served with such facilities, and the path of travel to such facilities shall not exceed:
 - a) 89 m
 - b) 90 m
 - c) 91 m
 - d) 92 m
- 61. A building with a green roof is an example of:
 - a) Climate-responsive design in a hot and humid climate
 - b) Climate-responsive design in a cold climate
 - c) Climate-responsive design in a tropical climate
 - d) Climate-responsive design in an urban environment
- 62. As per National Building Code of India 2016, area for each equivalent car space inclusive of circulation area for open parking, ground floor covered parking and basement respectively is
 - a) 22 sqm, 25 sqm, 30 sqm
 - b) 23 sqm, 28 sqm, 32 sqm
 - c) 20 sqm, 25 sqm, 30 sqm
 - d) 24 sqm, 28 sqm, 32 sqm
- 63. In Autodesk AutoCAD, when in absolute Cartesian coordinates have points A(10.8) and B(6.5), then to make a line from A to B with relative polar coordinates will write:
 - a) @-5<36.88
 - b) @4<30
 - c) @5<216,88
 - d) @3<60
- 64. What type of mode of failure is seen if footing is resting on very dense sand, loaded by transient dynamic loads?
 - a) Local Shear failure
 - b) Transient Shear failure
 - c) Punching Shear failure
 - d) Flexural Failure

- 65. For signage, what should be the minimum height of letters in mm for a viewing distance of 12 m?
 - a) 30
 - b) 32
 - c) 40
 - d) 45
- 66. The modified form of old English cross bond which consists of alternative courses of headers and stretchers is known as:
 - a) Raking bond
 - b) Dutch bond
 - c) Header bond
 - d) Facing bond
- 67. Match List I (Pozzolana) with List II (Properties) and select the correct option from the codes given below:

	List I	List II		
A	Iron oxide	1.	Prevent the flash setting of cement.	
В	NaCl	2.	Provides strength to the cement.	
С	Silica	3.	Accelerates the rate of setting of Plaster of Paris	
D	Gypsum	4.	Gives colour to the cement.	

Codes:

- A B C D
 a) 2 4 1 3
 b) 4 3 2 1
- c) 3 1 4 2 d) 1 2 3 4
- 68. Match the plants in List I with their prime uses in List II:

List I

- A. Bignonia magnifica
- B. Ixora chinensis
- C. Cassia fistula
- D. Wedeliatrilobata

List II

- 1. Grass cover
- 2. Wall climbers
- 3. Topiary
- 4. Arboriculture

Codes:

	A	В	C	D
a)	4	1	2	3
b)	4	3	1	2
c)	2	3	4	1
4)	3	2	1	1

69.	A case	ement v	vindov	v hung l	horizon	tally is c	ealled window.
	a)	Hopp	er				
	b)	Awni	ng				
	c)	Pivot					
	d)	Trans	om				
70.							marily defined as?
	,			revival			
				ıgainst ı			
	,					on over	
	d)	A sty	le base	ed arour	nd the u	se of mo	dern materials
71.	Interfa	ice of t	wo eco	ological	zones i	s termed	l as:
	,	Prom		es			
	,	Ecoto					
		Biom					
	a)	Ecosy	stem				
72.			oose t				ist I with their appropriate contribution from the codes given below: List II
	A. La			ility Br	own		1. Kew gardens
		ndre le		3			2. Versailles garden
	C. Jos	seph Pa	axton				3. Central park
	D. Fro	ederick	Law	Olmstea	ad		4. Crystal Palace
	Codes	:					
			A	В	C	D	
		a)	3	1	4	2	
		b)	1	1 3 2	4	2	
		c)	1	2	3	4	
		d)	1	2	4	3	
73.		•	courts	, hierar	chy of g	gates and	zoomorphic forms are the features of which type
	of gard						
		Japan		•			
		Mugh					
	,	Chine	\sim				
	u)	Engli	sn gard	ıen			
74.			DPC,	the thic	kness o	f the cer	ment concrete is
	,	8 CM					
	,	4 CM					
		3 CM					
	a)	6 CM					

- 75. A roof with slope in two directions with a break in slope on each side is called as:
 - a) Gambrel roof
 - b) Gabel roof
 - c) Skillion and Lean to
 - d) French roof
- 76. The direct and indirect cost estimated by a contractor for bidding a project is Rs.160000 and Rs. 20000 respectively. If the markup applied is 10% of the bid price, the quoted price of the contractor is:
 - a) Rs.216000
 - b) Rs.196000
 - c) Rs. 200000
 - d) Rs. 190000
- 77. The PVCN range of paint for prime coat on metals is:
 - a) 50-70
 - b) 25-40
 - c) 50-60
 - d) 55-60
- 78. Which of the following constructions is effective against both air-borne and structure-borne sounds?
 - a) Timber floor floating construction
 - b) Use of resilient surface material
 - c) Timber floor with suspended ceiling and air space
 - d) Concrete floor floating construction
- 79. The echo will be detectable to a human ear in which of the following room dimension? Assume that the surfaces are not good absorbers.
 - a) 4m x 5m
 - b) 18m x 4m
 - c) 10m x 3m
 - d) 12m x 12m
- 80. Maintenance Ratio in lighting calculation is defined as:
 - a) The ratio of illumination under normal working conditions to the illumination when everything is clean.
 - b) The ratio of illumination under normal working conditions to the illumination when everything is dirty.
 - c) The cost of human labor to clean 1SqM of the surface
 - d) None of the above
- 81. Which of the following features of Indian temples resembles pylons of the Egyptian temples?
 - a) Vimana
 - b) Shikara
 - c) Gopura
 - d) Antarala

- 82. Which of the following architectural structures is not a contribution of Sir Edwin Lutyen?
 - a) Rashtrapati Bhavan
 - b) Parliament House
 - c) Hyderabad House
 - d) Connaught Place
- 83. What is another name of 'Gate of Magnificence, the highest gateway of India at Fatehpur Sikri built by Akbar?
 - a) Teen Darwaza
 - b) Alai Darwaza
 - c) Buland Darwaza
 - d) India Gate
- 84. Service tax rate for architectural consultancy fees in India is:
 - a) 5%
 - b) 12%
 - c) 18%
 - d) 24%
- 85. Which of the following gives the highest sound absorption in a room?
 - a) Rigid wall
 - b) Rough ceiling
 - c) Soft curtain
 - d) Open window
- 86. The rafter that makes the closed triangular end of a pitched roof in timber is called:
 - a) Jack rafter
 - b) Valley rafter
 - c) Common rafter
 - d) Hip rafter
- 87. In case of a double roof of timber, which of the following statement is not correct?
 - a) The rafter is supported on purlins
 - b) The purlins is supported on end walls
 - c) The batten is supported on rafters
 - d) The purlin is supported on trusses
- 88. Trapezoidal footing is a:
 - a) Column footing
 - b) Combined footing
 - c) Stepped footing
 - d) Deep foundation
- 89. In pressure supply mains, water hammer pressure is reduced by providing:
 - a) Sluice valves
 - b) Air valves
 - c) Pressure relief valves
 - d) Suction Valve

- 90. Mostly used coagulant is:
 - a) Chlorine
 - b) Alum
 - c) Lime
 - d) Bleaching powder
- 91. Associate the plans in List I with the options in List II and choose the correct option from the codes given below:

List I	List II
A. City Development plan	1. PMGSY
B. Slum Free City Plan	2. JNNURM
C. Transport Network Plan	3. RAY
D. Disaster Management Plan	4. NDMA

Codes:

	Α	В	C	D
a)	2	3	1	4
b)	3	2	1	4
c)	2	1	3	4
d)	1	3	2	4

- 92. Which of the following Mud wall construction is preferred in Earthquake prone zones?
 - a) Adobe
 - b) Wattle and Daub
 - c) Stabilized mud block
 - d) Rammed earth
- 93. Minimum height of habitable rooms is
 - a) 2.5 m
 - b) 2.75 m
 - c) 1.5 m
 - d) 2 m
- 94. What is the type of slab in which some part of cement is replaced with cheap light weight material?
 - a) Collar slab
 - b) Waffle slab
 - c) Flat slabs
 - d) Filler slab
- 95. Which of the following is a non-natural defect in wood?
 - a) Chemical Stain
 - b) Twisted fibre
 - c) Upsets
 - d) Conversion

96.	Clerestory	windows are high and vertically placed windows. They can be used to increase
		_when oriented towards the equator.
		Indirect gain
		Isolated gain
		Direct Solar gain
	a)	Indirect heat gain
97.		height of the room gives better ventilation due to
	,	Venturi effect
	,	Bernoulli's effect
	c)	Stack Effect
	d)	Light effect
98.	Beaufort S	Scale is:
	a)	Scale representing wind speed
	b)	Scale for measuring humidity
	c)	Scale for measuring earthquake
		Scale measuring landslide
99.	the stair is a) b) c)	to be provided for a residence with floor height of 3m. If the space available for 4m x 2.5m, what kind of stair you propose? Open-well Bifurcated Dog-legged All the above
100	. The joists Floor.	in a Single Timber Floor is provided, while it isin a Double
	a)	across the span, along the span
	b)	along the span, across the span
	c)	across the span, across the span
	d)	along the span, along the span
101		the Mughal Monuments marked a new beginning in the style of architecture of a with the dome made of marble as its most remarkable feature?
	a)	Badshahi Mosque
	b)	Bibi ka Maqbara
	c)	Humayun's Tomb
	d)	Taj Mahal
102	a)b)c)	Damdama Sahib, one of the five takhts of Sikhs is situated in: Patiala Talwandi Sabo Amritsar Jalandhar

- 103. Who was the first Punjabi writer to receive Jnanpith Award? a) Amrita Pritam b) Gurdial Singh c) Surjit Paatan d) Khushwant Singh 104. For how many years, a person of Indian origin must have been an ordinary resident of India before making application towards getting citizenship by registration? a) 10 b) 8 c) 5 d) 7 105. Concrete and fiber glass are_____ a) Composite materials b) Ceramic materials c) Polymers d) Semiconductors 106. The pH value of acidic medium is: a) More than 7 b) Equal to 7 c) More than 10 d) Less than 7 107. Radiation therapy (Radiotherapy) is used for treatment of various types of cancers, and it is based on application of radiations. Which of the following radiations are mostly used for radiotherapy for cancer? a) Gamma radiations b) UV- radiations c) Microwave radiations d) Infrared radiations
- 108. In which of the following states the newly built state secretariat building was inaugurated in the last week of April, 2023?
 - a) Odisha
 - b) Andhra Pradesh
 - c) Chhattisgarh
 - d) Telangana
- 109. By which of the following Acts was the Governor General of Bengal designated as the Governor General of India?
 - a) The Regulation Act of 1773
 - b) The Pitt's India Act of 1784
 - c) The Charter Act of 1793
 - d) The Charter Act of 1833

110. Which of the following is a world famous beach for the 'Arribada' (arrival) of Olive
Ridley Turtles in India?
c) Calimanda Baral Orian
a) Gahirmatha Beach, Orissa
b) Marina Beach, Chennai
c) Gulf of Kutch, Gujarat
d) Kovalam Beach, Kerala
111. In a group of 30 people, 15 like coffee, 10 like tea, and 5 like both coffee and tea. How
many people do not like either coffee or tea?
a) 5
b) 10
c) 15
d) 20
112. A train travels from Station A to Station B at a speed of 60 km/h and returns from Station
B to Station A at a speed of 45 km/h. What is the average speed of the train for the entire
journey?
a) 51.4 km/h
b) 50.3 km/h
c) 55 km/h
d) 48 km/h
113. In a classroom, there are 15 students sitting in a row. If the top 3 students with the highest
scores are to be selected as the class representatives, how many different ways can this be
done?
done.
a) 455

b) 336

c) 136d) 90

114. C is the father-in-law of D, who is the mother of E, who is the son of B. How is B related to C? a) Husband b) Son c) Daughter d) Brother 115. A person is standing at a point X. He walks 10 meters towards the east, turns left and walks 15 meters, turns right, and walks 20 meters, turns left and walks 30 meters, turns left again and walks 10 meters, and finally, turns right and walks 20 meters. In which direction is the person facing now? a) North b) West c) East d) South 116. According to a military code, TATTOO is TATOOT and MAKEUP is KAMPUE. What is the code for GORGEOUS? a) SUOEGROG b) GORGSUOE c) GROGSUOE d) GROGEOUS 117. If the ratio of the ages of two brothers is 5:7 and the sum of their ages is 60 years, what is the age of the younger brother? a) 20 years b) 25 years c) 30 years d) 35 years 118. A clock gains 5 minutes every hour. If the clock is set to the correct time at 12:00 PM, what time will it show after 14 hours? a) 3:10 AM b) 2:50 AM c) 3:30 AM d) 2:55 AM

119. What is the next number in the series: 1, 4, 27, 256, 3125, ?

- a) 46656
- b) 16875
- c) 7776
- d) 15625

120. Select the most appropriate analogy from the choices given below:

DETERIORATE: IMPROVE

a) feckless: carelessb) evanescent: exigent

c) hope: hone

d) obstinate: tractable

SPACE FOR ROUGH WORK

PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (July-2023) for Recruitment to the post of Assistant Architect (Group-A) in the Departments of Local Govt. & PWD, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120 Time Allowed: 2 Hours

Candidate's Name	Question
Father's Name	Booklet Set
Date of Birth	
OMR Response Sheet No.	
Roll No	Booklet Series
Candidate's Signature (Please sign in the box)	

INSTRUCTIONS

- 1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately.
- 2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
- 3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
- 4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
- 5. The question paper booklet has 21 pages.
- 6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
- 7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Ouestion booklet.
- 8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the <u>MOST APPROPRIATE</u> answer on the OMR response sheet.
- 9. There is negative marking (1 mark for each question) for questions wrongly answered by the candidate.
- 10. Use of Electronic/Manual Calculator is prohibited.
- 11. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

- In a group of 30 people, 15 like coffee, 10 like tea, and 5 like both coffee and tea. How many people do not like either coffee or tea?
 a) 5
 b) 10
 c) 15
 d) 20
- 2. A train travels from Station A to Station B at a speed of 60 km/h and returns from Station B to Station A at a speed of 45 km/h. What is the average speed of the train for the entire journey?
 - a) 51.4 km/h
 - b) 50.3 km/h
 - c) 55 km/h
 - d) 48 km/h
- 3. In a classroom, there are 15 students sitting in a row. If the top 3 students with the highest scores are to be selected as the class representatives, how many different ways can this be done?
 - a) 455
 - b) 336
 - c) 136
 - d) 90
- 4. C is the father-in-law of D, who is the mother of E, who is the son of B. How is B related to C?
 - a) Husband
 - b) Son
 - c) Daughter
 - d) Brother
- 5. A person is standing at a point X. He walks 10 meters towards the east, turns left and walks 15 meters, turns right, and walks 20 meters, turns left and walks 30 meters, turns left again and walks 10 meters, and finally, turns right and walks 20 meters. In which direction is the person facing now?
 - a) North
 - b) West
 - c) East
 - d) South
- 6. According to a military code, TATTOO is TATOOT and MAKEUP is KAMPUE. What is the code for GORGEOUS?
 - a) SUOEGROG
 - b) GORGSUOE
 - c) GROGSUOE
 - d) GROGEOUS

If the ratio of the ages of two brothers is 5:7 and the sum of their ages is 60 years, what is the age of the younger brother? a) 20 years b) 25 years c) 30 years d) 35 years 8. A clock gains 5 minutes every hour. If the clock is set to the correct time at 12:00 PM, what time will it show after 14 hours? a) 3:10 AM b) 2:50 AM c) 3:30 AM d) 2:55 AM 9. What is the next number in the series: 1, 4, 27, 256, 3125, ? a) 46656 b) 16875 c) 7776 d) 15625 10. Select the most appropriate analogy from the choices given below: **DETERIORATE: IMPROVE** a) feckless: careless b) evanescent: exigent c) hope: hone d) obstinate: tractable 11. 'ਸੱਤਰਿਆ-ਬਹੱਤਰਿਆ ikDk' ਦk nਰਥ ਹੈ: a) ਗਿਣਤੀ ਕਰਨੀ b) ਬਿਨਾਂ ਕੁਖ਼ਰਣ ਕਿਤੇ ਜੁਖ਼ਣਖ਼ c) ਬੁਢੇਪk ਆਉਣk d) nਕਲ ਮੁਖ਼ਰੀ ਜਖ਼ਣੀ 12. ਉਪਕkਰ, ਉਪਯੋਗ, ਉਪਨkਮ ਸ਼ਬਦਾਂ ਵਿੱਚ ਕਿਹੜk nਗੇਤਰ ਵਰਤਿਆ ਗਿਆ ਹੈ:

a) 🕏

b) **ਉ**ਪ

c) **ਉ**ਪk

	a) ਮੇਰੀ ਕੋਠੀ ੲ	ਹੁਤ ਵੱਡੀ nK ਹਨ।		
	b) ਸ k ਡੀ nK ੱ	ੀ <mark>ਨੀ</mark> nK ਬਹੁਤ ਵੱਡੀ ਹੈ।		
	c) ਮੇਰੀ ਕੋਠੀn	к ਬਹੁਤ ਵੱਡੀ nK ਹੈ।		
	d) ਮੇਰੀ ਕੋਠੀ ੲ	।ਹੁਤ ਵੱਡੀ ਹੈ।		
14. n	zਗਰੇਜ਼ੀ ਦੇ ਜੂਨ-ਜੁ	ਲkਈ ਮਹੀਨੇ ਵਿੱਚ ਕਿਹੜk	ਦੇਸੀ ਮਹੀਨk ਆਉਦk ਹੈ?	
	a) ਸkਵਣ			
	b) ਜੇਠ			
	c) ਹkੜ੍ਹ			
	d) ਵਸkਖ			
15. ₹	ਹਰਨk ਦੁਆਬ ਕਿਹ	ਾੜੇ ਦਰਿਆਵਾਂ ਵਿਚਕkਰ ਦk	: ਇਲkਕk ਹੈ?	
	a) ਚਨkਬ-ਜੇਟ	ਹ ਲਮ		
	b) ਚਨk ਬ-ਰ k	<u> </u>		
	c) ਰkਵੀ-ਬਿਅ	ਾਸ		
	d) ਬਿਆਸ-ਚਨ	īk ਬ		
16.	'aokV'	dw ivroDwrQk Sb	od hY	
	a) m`J		c) aUTxI	d) srdI
17.j	/m fbfynK f	tu'A fejVk ;a[ZX	gzikph ;apd o{q	g j? <
ħ £	a) gvWf	b) guAWf	c) guA	WF d)
guAwf				
18.	'It has been d	rizzling since morning'	dw pMjwbI rUp h	Y:
	a) svyr	qoN bMUdw-bWdI	ho rhI hY[
	b) svyr	qoN mINh pY irh	ıw hY[
	c) svy	r qoN hvw c`l rh	I hY[
	d) svy	r qoN gVHy pY rhy	y hn[

13. 'ਸkਡੀnK ਕੋਠੀnK ਬਹੁਤ ਵੱਡੀnK ਹਨ।' ਦk ਵਚਨ ਬਦਲੋ:

19 .ਹੇਠ ਲਿਖੇ	ਮੇ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ 'ਉ	ਲੁੱਲੂ' ਦk ਇਸਤਰੀ ਲਿੰਗ ਚੁਣੋ:
a)	ਉੱਲੂ	b) ਉੱਲਣੀ
	ਬਟੇਰ ਹ	
,		,
20. 'ਸੰਗ' ਦ	k ਇਕ n ਰਥ ਹੈ	'ਸ਼ਰਮ' nਤੇ ਦੂਜk nਰਥ ਹੈ:
	a) ਸkਥ	b) ਹkਲ
	c) ਕੱਚk	d) nZਗ
21. World	's first bronze	sculpture was found in:
	Harappa	
	Mohenjodaro	
	Lothal Rakhigarhi	
u)	Tunninguini	
-	am is an eleme	
,	Dravidian Are	
	Indo-Aryan A	
,	Jain Temple A	nple Architecture
u)	Rock Cut Ici	inpic / itemtecture
	g minarets are	clocated in:
,	Ahmedabad	
	Agra	
	Jaipur Hyderabad	
u)	Trydcrabad	
24. An inc	lined section the	hrough a Cone will be seen as:
	Hexagon	
	Hyperbola	
	Spiral Ellipse	
u)	Limpsc	
	•	s a Dodecahedron has?
,	12	
	20	
d)	30	
u)	0	
26. What i	s the minimun	n slope for climbing a ramp using wheelchair?
a)		
	1:10	
	1:12 1:14	
u)	1.14	

27.	What i	s the minimum height of bathroom as per NBC?
	a)	2.2 m
	b)	2.8 m
	c)	2.75 m
	d)	2.4 m
28.	What o	loes the Horizon line in a perspective represent?
	a)	Height of the object
	b)	Eye level of observer
	c)	Distance from Picture plane
	d)	Cone of Vision
29	What a	are the stones or bricks at the corner of a building called?
		Jamb
	,	Course
	,	Quoin
	,	Rebate
	u)	Teolic
30.		s the percentage of Carbon in structural steel?
	a)	5 to 8 %
	b)	> 18 %
	c)	1 to 2 %
	d)	< 0.5 %
31.	Which	term is used for Heating and slow Cooling of metals?
		Tempering
		Annealing
		Hardening
		Melting
32	Which	defect of timber occurs between or through annual growth rings?
52.		Knot
		Shake
	,	Decay
	,	Split
	α)	Spin .
33.		truss is most suitable for glare free lighting in workshops?
	,	North light truss
		King post truss
	c)	Fink truss
	d)	Warren Truss
34.	Lancet	Arch is also called arch?
		Draped arch
		Ogee arch
		Acute arch
	,	Multifoil arch
	u)	iviuitiioii alvii

35. Silica, C	Charcoal and gypsum is used in paints as a
a)	Plasticizer
b)	Inert filler
c)	Antiskinning agent
d)	Thinner
06 1011 1 1	
	is a mode of failure in a structural member?
	Buckling
	Compression
	Torsion
d)	Equilibrium
37. Which	of the following is a criterion for design of Storm water drainage?
	Catchment Area
b)	Population of a City/ town
c)	Number of cloudy days
	Solar irradiance
29 The east	reptable noise level in Hospital corresponds to which of the following?
	10-15 dB
,	35-40 dB
,	60-65 dB
,	
u)	90-100 dB
39. Lumino	ous intensity is expressed in which units?
a)	Watt
b)	Lumens
c)	Wall per metre
d)	Candela
	ence has a terrace area of 50 m ² and runoff coefficient of 0.5. For an average of 500 mm, the rainwater harvesting potential from terrace shall bem ³ ?
	1.25
	12.5
c)	
· · · · · · · · · · · · · · · · · · ·	1250
41 W/h: ah af	Sthe fellowing is a gooding decise feetows?
	the following is a passive design feature?
	Solar Chimney
,	Air Cooler
,	Exhaust Fan
a)	Air Conditioner
	reen rating system is followed in United Kingdom?
,	CASBEE
,	GRIHA
,	BREEAM
d)	Green Mark

43. Calculat	te the maximum number of 100 sq. m. apartments that can be constructed on a
1-hectar	re plot, having ground coverage of 40 percent and an FAR of 1.5
a)	100
b)	60
c)	200
d)	150
44. A Smart	t City DOES NOT include which among the following?
a)	Information and Communication Technology
b)	Management Information System
c)	Surveillance System
	Urban Heat Index
45. What ha	as replaced the Planning Commission in 2017?
a)	Ayushman Bharat Yojna
b)	Valmiki Ambedkar Awas Yojna
c)	Two Million Housing Programme
d)	NITI Aayog
46. Meditatio	on space, Hill, Pond, Zen, Curved elements and use of Symbolic features is a
characteri	istic feature of gardens.
a)	Mughal
b)	English
c)	Italian
d)	Japanese
47. Which o	of the following is NOT an Adhesive?
a)	Epoxy Resin
b)	Vinyl
c)	Urea Formaldehyde
	Phenyl Formaldehyde
48. An ear	thquake with a Richter Scale of 6.0 is classified as
a)	Strong
b)	Mild
c)	Little
d)	Insignificant
49. The full	form of AMRUT is
a)	Augmented Monuments for Recreation and Urban Transportation
	Atal Mission for Recreation and Urban Transportation
	Atal Mission for Rejuvenation and Urban Transformation
	Associated Monuments for Recreation and Urban Transformation

50. Grade M-25 of concrete mix refers to: a) 1:2:4 b)1:3:6 c) 1:1:3 d)1:1:2 51. If the successful tender fails to submit the additional performance security within ____ no. of working days from the date of issue of letter of acceptance, his earnest money will be forfeited. a) 7 b) 15 c) 21 d) 28 52. Plans used to identify site in relation to town plan or other wider context are called: a) General location Plans b) Site plans c) Layout plans d) Reflected Plan 53. India habitat center, New Delhi, was designed by: a) Charles Correa b) Raj Rewal c) Joseph Allen Stein d) A. P. Kanvinde 54. In CMYK colour model, 'C represents the colour: a) White b) Black c) Blue d) Green 55. New parliament house, New Delhi, is designed by: a) Hafez contractor b) Raj Rewal c) Herbert Baker d) Bimal Patel 56. Hoop and circumferential forces are associated with: a) Dome b) Truss c) Folded Plate d) Cylinder

a) 500 - 600 mm
b) 600 - 850 mm
c) 700 - 800 mm
d) 800 - 900 mm

57. Recommended height for the wash basin as per barrier free norm is:

- 58. The solar protection system consisting of fixed slates or grids outside a building façade in front of openings is known as:
 - a) Solarium
 - b) Trombe Wall
 - c) Malqaf
 - d) Brise-soleil
- 59. Which of the following is the correct sequence from top to bottom for the elements used in the Entablature in ancient Greek Architecture?
 - a) Cyma recta, Corona, Dentil, Frieze, Architrave
 - b) Corona, Cyma recta, Architrave, Frieze, Dentil
 - c) Architrave, Frieze, Corona, Dentil, Cyma recta
 - d) Dentil, Cyma recta, Corona, Frieze, Architrave
- 60. Which of the following is a temple having an apsidal plan?
 - a) Lad Khan Temple, Aihole
 - b) Virupaksha Temple, Pattadakal
 - c) Brihadeshwara Temple, Tanjore
 - d) Papanatha Temple, Pattadakal
- 61. For a PERT activity, the optimistic time, the most likely time and pessimistic time are 1, 2 and 9 days respectively. The expected time for the activity(in days) is:
 - a) 9
 - b) 6
 - c) 4
 - d) 3
- 62. Line up to which the plinth of a building adjoining a street may be law-fully extended is called:
 - a) Building line
 - b) Building boundary
 - c) Building extend
 - d) Building plan
- 63. The raft slab is projected beyond the outer walls of the structure by:
 - a) 5 to 10 cm
 - b) 15 to 20 cm
 - c) 25 to 30 cm
 - d) 30 to 45 cm
- 64. Which type of truss is characterized by multiple diagonal members forming a series of V-shapes?
 - a) Warren truss
 - b) Pratt truss
 - c) K truss
 - d) Vierendeel truss

- 65. A property fetches a net income of Rs.1000/- deducting all outgoings. Workout the capitalized value of the property if the rate of interest is 5% per annum.
 - a) Rs.5000
 - b) Rs.20000
 - c) Rs.10000
 - d) Rs.24000
- 66. According to National Building Code of India, Industrial buildings are categorized under which group of occupancy?
 - a) Group G
 - b) Group E
 - c) Group F
 - d) Group H
- 67. The illumination level of a room is 350 lux and the efficacy of the lamps is 50. What will be the Light Power Density (LPD) of the room in Watt/m²?
 - a) $5 \text{ Watt/ } \text{m}^2$
 - b) 7 Watt/ m²
 - c) $10 \text{ Watt/ } \text{m}^2$
 - d) $8 \text{ Watt/ } \text{m}^2$
- 68. Find the reverberation time of a hall having dimensions 50m x 25m x 35m and having the absorption coefficient of 0.15.
 - a) 1.8 sec
 - b) 2.8 sec
 - c) 3.8 sec
 - d) None of the above
- 69. When the load are reversing, the beam is designed as:
 - a) Singly reinforced
 - b) Doubly reinforced
 - c) Over-reinforced
 - d) Cantilever beam
- 70. In planning for malls, the required public and toilet facilities shall be located not more than one storey above or below the space to be served with such facilities, and the path of travel to such facilities shall not exceed:
 - a) 89 m
 - b) 90 m
 - c) 91 m
 - d) 92 m

- 71. A building with a green roof is an example of:
 - a) Climate-responsive design in a hot and humid climate
 - b) Climate-responsive design in a cold climate
 - c) Climate-responsive design in a tropical climate
 - d) Climate-responsive design in an urban environment
- 72. As per National Building Code of India 2016, area for each equivalent car space inclusive of circulation area for open parking, ground floor covered parking and basement respectively is
 - a) 22 sqm, 25 sqm, 30 sqm
 - b) 23 sqm, 28 sqm, 32 sqm
 - c) 20 sqm, 25 sqm, 30 sqm
 - d) 24 sqm, 28 sqm, 32 sqm
- 73. In Autodesk AutoCAD, when in absolute Cartesian coordinates have points A(10.8) and B(6.5), then to make a line from A to B with relative polar coordinates will write:
 - a) @-5<36.88
 - b) @4<30
 - c) @5<216,88
 - d) @3<60
- 74. What type of mode of failure is seen if footing is resting on very dense sand, loaded by transient dynamic loads?
 - a) Local Shear failure
 - b) Transient Shear failure
 - c) Punching Shear failure
 - d) Flexural Failure
- 75. For signage, what should be the minimum height of letters in mm for a viewing distance of 12 m?
 - a) 30
 - b) 32
 - c) 40
 - d) 45
- 76. The modified form of old English cross bond which consists of alternative courses of headers and stretchers is known as:
 - a) Raking bond
 - b) Dutch bond
 - c) Header bond
 - d) Facing bond

77. Match List I (Pozzolana) with List II (Properties) and select the correct option

from the codes given below:

List I		List II		
A	Iron oxide	1.	Prevent the flash setting of cement.	
В	NaCl	2.	Provides strength to the cement.	
С	Silica	3.	Accelerates the rate of setting of Plaster of Paris	
D	Gypsum	4.	Gives colour to the cement.	

Codes:

	Α	В	C	D
a)	2	4	1	3
b)	4	3	2	1
c)	3	1	4	2
d)	1	2	3	4

78. Match the plants in List I with their prime uses in List II:

List I	List II
A. Bignonia magnifica	1. Grass cover
B. Ixora chinensis	2. Wall climbers
C. Cassia fistula	3. Topiary
D. Wedeliatrilobata	4. Arboriculture

Codes:

	Α	В	C	D
a)	4	1	2	3
a) b)	4	3	1	2
c)	2	3	4	1
d)	3	2	4	1

- 79. A casement window hung horizontally is called _____ window.
 - a) Hopper
 - b) Awning
 - c) Pivot
 - d) Transom
- 80. What is Postmodernism in architecture primarily defined as?
 - a) A historical revival movement
 - b) A reaction against modernism
 - c) A formalist belief in function over form
 - d) A style based around the use of modern materials

b) c)	face of t) Prom) Ecoto) Biom) Ecosy	ontorie one ie	-	zones i	s termed	as:
A. L B. A C. Jo		noose the I I Capab Notre axton	he corre	ect optio		st I with their appropriate contribution from the codes given below: List II 1. Kew gardens 2. Versailles garden 3. Central park 4. Crystal Palace
Code	a) b) c) d)	A 3 1 1	B 1 3 2 2	C 4 4 3 4	D 2 2 4 3	
of gar a) b) c)	archy of rden?) Japan) Mugh) Chind) Engli	nese nal gard ese gar	den den	chy of g	ates and	zoomorphic forms are the features of which type
a) b) c)	rizontal) 8 CM) 4 CM) 3 CM) 6 CM	DPC,	the thic	kness o	f the cen	nent concrete is
a) b) c)	of with some of the solution o	rel roof roof on and l	f		s with a l	break in slope on each side is called as:
and F price a) b)		00 respo contrac 5000 5000 0000	ectively		-	contractor for bidding a project is Rs.160000 applied is 10% of the bid price, the quoted

- 87. The PVCN range of paint for prime coat on metals is:
 - a) 50-70
 - b) 25-40
 - c) 50-60
 - d) 55-60
- 88. Which of the following constructions is effective against both air-borne and structure-borne sounds?
 - a) Timber floor floating construction
 - b) Use of resilient surface material
 - c) Timber floor with suspended ceiling and air space
 - d) Concrete floor floating construction
- 89. The echo will be detectable to a human ear in which of the following room dimension? Assume that the surfaces are not good absorbers.
 - a) 4m x 5m
 - b) 18m x 4m
 - c) 10m x 3m
 - d) 12m x 12m
- 90. Maintenance Ratio in lighting calculation is defined as:
 - a) The ratio of illumination under normal working conditions to the illumination when everything is clean.
 - b) The ratio of illumination under normal working conditions to the illumination when everything is dirty.
 - c) The cost of human labor to clean 1SqM of the surface
 - d) None of the above
- 91. Which of the following features of Indian temples resembles pylons of the Egyptian temples?
 - a) Vimana
 - b) Shikara
 - c) Gopura
 - d) Antarala
- 92. Which of the following architectural structures is not a contribution of Sir Edwin Lutyen?
 - a) Rashtrapati Bhavan
 - b) Parliament House
 - c) Hyderabad House
 - d) Connaught Place
- 93. What is another name of 'Gate of Magnificence, the highest gateway of India at Fatehpur Sikri built by Akbar?
 - a) Teen Darwaza
 - b) Alai Darwaza
 - c) Buland Darwaza
 - d) India Gate

- 94. Service tax rate for architectural consultancy fees in India is:

 a) 5%
 b) 12%
 c) 18%
- 95. Which of the following gives the highest sound absorption in a room?
 - a) Rigid wall

d) 24%

- b) Rough ceiling
- c) Soft curtain
- d) Open window
- 96. The rafter that makes the closed triangular end of a pitched roof in timber is called:
 - a) Jack rafter
 - b) Valley rafter
 - c) Common rafter
 - d) Hip rafter
- 97. In case of a double roof of timber, which of the following statement is not correct?
 - a) The rafter is supported on purlins
 - b) The purlins is supported on end walls
 - c) The batten is supported on rafters
 - d) The purlin is supported on trusses
- 98. Trapezoidal footing is a:
 - a) Column footing
 - b) Combined footing
 - c) Stepped footing
 - d) Deep foundation
- 99. In pressure supply mains, water hammer pressure is reduced by providing:
 - a) Sluice valves
 - b) Air valves
 - c) Pressure relief valves
 - d) Suction Valve
- 100. Mostly used coagulant is:
 - a) Chlorine
 - b) Alum
 - c) Lime
 - d) Bleaching powder

101. Associate the plans in List I with the options in List II and choose the correct option from the codes given below:

List I	List II
A. City Development plan	1. PMGSY
B. Slum Free City Plan	2. JNNURM
C. Transport Network Plan	3. RAY
D. Disaster Management Plan	4. NDMA

Codes:

	Α	В	C	D
a)	2	3	1	4
b)	3	2	1	4
c)	2	1	3	4
d)	1	3	2	4

- 102. Which of the following Mud wall construction is preferred in Earthquake prone zones?
 - a) Adobe
 - b) Wattle and Daub
 - c) Stabilized mud block
 - d) Rammed earth
- 103. Minimum height of habitable rooms is
 - a) 2.5 m
 - b) 2.75 m
 - c) 1.5 m
 - d) 2 m
- 104. What is the type of slab in which some part of cement is replaced with cheap light weight material?
 - a) Collar slab
 - b) Waffle slab
 - c) Flat slabs
 - d) Filler slab
- 105. Which of the following is a non-natural defect in wood?
 - a) Chemical Stain
 - b) Twisted fibre
 - c) Upsets
 - d) Conversion
- 106. Clerestory windows are high and vertically placed windows. They can be used to increase _____when oriented towards the equator.
 - a) Indirect gain
 - b) Isolated gain
 - c) Direct Solar gain
 - d) Indirect heat gain

107. Increased heigh	nt of the room gives better ventilation due to
,	nturi effect
· · · · · · · · · · · · · · · · · · ·	noulli's effect
,	ck Effect
d) Lig	ht effect
108. Beaufort Scale	is:
a) Scale	e representing wind speed
b) Scale	e for measuring humidity
c) Scale	e for measuring earthquake
d) Scale	e measuring landslide
109. A Stair is to be	provided for a residence with floor height of 3m. If the space available for
the stair is 4m	x 2.5m, what kind of stair you propose?
a) Oper	
b) Bifu	
c) Dog-	
d) All t	he above
110. The joists in a Floor.	Single Timber Floor is provided, while it isin a Double
a) acros	ss the span, along the span
b) along	g the span, across the span
c) acros	ss the span, across the span
d) along	g the span, along the span
	Mughal Monuments marked a new beginning in the style of architecture of
North India wi	th the dome made of marble as its most remarkable feature?
a) Bad	Ishahi Mosque
b) Bib	i ka Maqbara
c) Hui	nayun's Tomb
d) Taj	Mahal
112 Takht Sri Dam	dama Sahib, one of the five takhts of Sikhs is situated in:
a) Pati	,
,	wandi Sabo
c) Am	
,	ındhar
d) Jaia	nunai
113. Who was the fi	rst Punjabi writer to receive Jnanpith Award?
a) Amı	rita Pritam
b) Gur	dial Singh
c) Surj	it Paatan
d) Khu	shwant Singh

114. For how many years, a person of Indian origin must have been an ordinary resident of India before making application towards getting citizenship by registration?
a) 10
b) 8
c) 5
d) 7
115. Concrete and fiber glass are
a) Composite materials
b) Ceramic materials
c) Polymers
d) Semiconductors
116. The pH value of acidic medium is:
a) More than 7
b) Equal to 7
c) More than 10
d) Less than 7
117. Radiation therapy (Radiotherapy) is used for treatment of various types of cancers, and i is based on application of radiations. Which of the following radiations are mostly used for radiotherapy for cancer?a) Gamma radiations
b) UV- radiations
c) Microwave radiations
d) Infrared radiations
118. In which of the following states the newly built state secretariat building was inaugurated in the last week of April, 2023? a) Odisha
b) Andhra Pradesh
c) Chhattisgarh
d) Telangana

- 119. By which of the following Acts was the Governor General of Bengal designated as the Governor General of India?
 - a) The Regulation Act of 1773
 - b) The Pitt's India Act of 1784
 - c) The Charter Act of 1793
 - d) The Charter Act of 1833
- 120. Which of the following is a world famous beach for the 'Arribada' (arrival) of Olive Ridley Turtles in India?
 - a) Gahirmatha Beach, Orissa
 - b) Marina Beach, Chennai
 - c) Gulf of Kutch, Gujarat
 - d) Kovalam Beach, Kerala

SPACE FOR ROUGH WORK

PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (July-2023) for Recruitment to the post of Assistant Architect (Group-A) in the Departments of Local Govt. & PWD, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120 Time Allowed: 2 Hours

		1	ime Allowed: 2 Hour
Candidate's Name _			Question
Father's Name _			Booklet Set
Date of Birth DD	MM YYYY		
OMR Response She	et No		
Roll No.			Booklet Series
Candidate's Signatu			
	INSTRU	CTIONS	
meantime, the can	l NOT open this booklet till the time didate can read these instructions can L letters. The candidate may also f	efully and subsequently fill the appr	ropriate columns given

- Reader (OMR) response sheet, supplied separately.

 2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of
- 3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
- 4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
- 5. The question paper booklet has 21 pages.

Ink pen or any other pen is not allowed.

- 6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
- 7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Ouestion booklet.
- 8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the <u>MOST APPROPRIATE</u> answer on the OMR response sheet.
- 9. There is negative marking (1 mark for each question) for questions wrongly answered by the candidate.
- 10. Use of Electronic/Manual Calculator is prohibited.
- 11. The candidate <u>MUST READ INSTRUCTIONS BEHIND THE OMR SHEET</u> before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

1. Which of the Mughal Monuments marked a new beginning in the style of architecture of North India with the dome made of marble as its most remarkable feature? a) Badshahi Mosque b) Bibi ka Maqbara c) Humayun's Tomb d) Taj Mahal 2. Takht Sri Damdama Sahib, one of the five takhts of Sikhs is situated in: a) Patiala b) Talwandi Sabo c) Amritsar d) Jalandhar 3. Who was the first Punjabi writer to receive Jnanpith Award? a) Amrita Pritam b) Gurdial Singh c) Surjit Paatan d) Khushwant Singh 4. For how many years, a person of Indian origin must have been an ordinary resident of India before making application towards getting citizenship by registration? a) 10 b) 8 c) 5 d) 7 5. Concrete and fiber glass are_____ a) Composite materials b) Ceramic materials c) Polymers d) Semiconductors 6. The pH value of acidic medium is: a) More than 7 b) Equal to 7 c) More than 10 d) Less than 7 7. Radiation therapy (Radiotherapy) is used for treatment of various types of cancers, and it is based on application of radiations. Which of the following radiations are mostly used for radiotherapy for cancer? a) Gamma radiations b) UV- radiations

c) Microwave radiationsd) Infrared radiations

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 - a) Gahirmatha Beach, Orissa
 - b) Marina Beach, Chennai
 - c) Gulf of Kutch, Gujarat
 - d) Kovalam Beach, Kerala
- 11. In a group of 30 people, 15 like coffee, 10 like tea, and 5 like both coffee and tea. How many people do not like either coffee or tea?
 - a) 5
 - b) 10
 - c) 15
 - d) 20
- 12. A train travels from Station A to Station B at a speed of 60 km/h and returns from Station B to Station A at a speed of 45 km/h. What is the average speed of the train for the entire journey?
 - a) 51.4 km/h
 - b) 50.3 km/h
 - c) 55 km/h
 - d) 48 km/h
- 13. In a classroom, there are 15 students sitting in a row. If the top 3 students with the highest scores are to be selected as the class representatives, how many different ways can this be done?
 - a) 455
 - b) 336
 - c) 136
 - d) 90

- 14. C is the father-in-law of D, who is the mother of E, who is the son of B. How is B related to C?
 - a) Husband
 - b) Son
 - c) Daughter
 - d) Brother
- 15. A person is standing at a point X. He walks 10 meters towards the east, turns left and walks 15 meters, turns right, and walks 20 meters, turns left and walks 30 meters, turns left again and walks 10 meters, and finally, turns right and walks 20 meters. In which direction is the person facing now?
 - a) North
 - b) West
 - c) East
 - d) South
- 16. According to a military code, TATTOO is TATOOT and MAKEUP is KAMPUE. What is the code for GORGEOUS?
 - a) SUOEGROG
 - b) GORGSUOE
 - c) GROGSUOE
 - d) GROGEOUS
- 17. If the ratio of the ages of two brothers is 5:7 and the sum of their ages is 60 years, what is the age of the younger brother?
 - a) 20 years
 - b) 25 years
 - c) 30 years
 - d) 35 years
- 18. A clock gains 5 minutes every hour. If the clock is set to the correct time at 12:00 PM, what time will it show after 14 hours?
 - a) 3:10 AM
 - b) 2:50 AM
 - c) 3:30 AM
 - d) 2:55 AM
- 19. What is the next number in the series: 1, 4, 27, 256, 3125, ?
 - a) 46656
 - b) 16875
 - c) 7776
 - d) 15625
- 20. Select the most appropriate analogy from the choices given below:

DETERIORATE: IMPROVE

a) feckless: carelessb) evanescent: exigent

c) hope: hone

d) obstinate: tractable

21. 'ਸੱਤ੍ਹਰਿਆ-ਬਹੱਤਰਿਆ ikDk' ਦk nਰਥ ਹੈ:
a) ਗਿਣਤੀ ਕਰਨੀ
b) ਬਿਨਾਂ ਕੁਖ਼ਰਣ ਕਿਤੇ ਜਖ਼ਣਖ਼
c) ਬੁਢੇਪk ਆਉਣk
d) nਕਲ ਮkਰੀ ਜkਣੀ
22. ਉਪਕкਰ, ਉਪਯੋਗ, ਉਪਨкਮ ਸ਼ਬਦਾਂ ਵਿੱਚ ਕਿਹੜк nਗੇਤਰ ਵਰਤਿਆ ਗਿਆ ਹੈ:
a) ਉ
b) ਉਪ
с) ਉ чк
d) ਓ
23. 'ਸkਡੀnK ਕੋਠੀnK ਬਹੁਤ ਵੱਡੀnK ਹਨ।' ਦk ਵਚਨ ਬਦਲੋ:
a) ਮੇਰੀ ਕੋਠੀ ਬਹੁਤ ਵੱਡੀnK ਹਨ।
b) ਸkਡੀnK ਕੋਠੀnK ਬਹੁਤ ਵੱਡੀ ਹੈ।
c) ਮੇਰੀ ਕੋਠੀnK ਬਹੁਤ ਵੱਡੀnK ਹੈੈ ।
d) ਮੇਰੀ ਕੋਠੀ ਬਹੁਤ ਵੱਡੀ ਹੈੈ।

- a) मkहर
- b) ਜੇਠ
- c) ਹkੜ੍ਹ
- d) ਵਸ_kਖ
- 25. ਰਚਨk ਦੁਆਬ ਕਿਹੜੇ ਦਰਿਆਵਾਂ ਵਿਚਕkਰ ਦk ਇਲkਕk ਹੈ?
 - a) ਚਨkਬ-ਜੇਹਲਮ
 - b) ਚਨkਬ-ਰkਵੀ
 - c) ਰkਵੀ-ਬਿਆਸ
 - d) ਬਿਆਸ-ਚਨkਬ

26.	'qokV'	dw ivroDwrQk Sbo	d hY		
	a) m`J	b) s`jr	c)	aUTxI	d) srdI
27.j/	m fbfynK ft	cu'A fejVk ;a[ZX	gzikph ;	apd o{g j?	<
guAwf	a)gvWf	b) guAWf		c) guAWF	d)
28.	'It has been di	rizzling since morning'	dw pMjwb	I rUp hY:	
	a) svyr	qoN bMUdw-bWdI l	ho rhI h	Υ [
	b) svyr	qoN mINh pY irhw	v hY[
	c) svyr	qoN hvw c`l rhI	hY[
	d) svyr	qoN gVHy pY rhy	hn[
29 .ਹੇਠ	ਲਿਖੇ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ	'ਉੱਲੂ' ਦk ਇਸਤਰੀ ਲਿੰਗ ਚ	ਭੂਣੋ :		
	a) ਉੱਲੂ	b) ਉੱਲਣੀ			
	c) ਬਟੇਰ	d) ਬਤੌਰੀ			
30. 'ਸੰਚ	ī' ਦk ਇਕ nਰਥ	ਹੈ 'ਸ਼ਰਮ' nਤੇ ਦੂਜk nਰਥ	ਹੈ:		
	a) ਸkਥ	b) ਹkਲ			
	c) ਕੱਚk	d) nZ ਗ			
31. Wo	orld's first bronz a) Harappa b) Mohenjoda c) Lothal d) Rakhigarhi		n:		
32. Go	•	Architecture			
33. Sha	aking minarets a a) Ahmedabaa b) Agra c) Jaipur d) Hyderabad	d			

- 34. An inclined section through a Cone will be seen as: a) Hexagon b) Hyperbola c) Spiral d) Ellipse 35. How many faces does a Dodecahedron has? a) 12 b) 20 c) 30 d) 8 36. What is the minimum slope for climbing a ramp using wheelchair? a) 1:8 b) 1:10 c) 1:12 d) 1:14 37. What is the minimum height of bathroom as per NBC? a) 2.2 m b) 2.8 m c) 2.75 m d) 2.4 m 38. What does the Horizon line in a perspective represent? a) Height of the object b) Eye level of observer c) Distance from Picture plane d) Cone of Vision 39. What are the stones or bricks at the corner of a building called? a) Jamb b) Course c) Quoin d) Rebate 40. What is the percentage of Carbon in structural steel? a) 5 to 8 % b) > 18 %
- 41. Which term is used for Heating and slow Cooling of metals?
 - a) Tempering

c) 1 to 2 % d) < 0.5 %

- b) Annealing
- c) Hardening
- d) Melting

42.	Which	defect of timber occurs between or through annual growth rings?
	a)	Knot
	b)	Shake
	c)	Decay
	d)	Split
		•
43.	Which	truss is most suitable for glare free lighting in workshops?
	a)	North light truss
	b)	King post truss
	c)	Fink truss
	d)	Warren Truss
44.		Arch is also called arch?
	,	Draped arch
		Ogee arch
	c)	Acute arch
	d)	Multifoil arch
15	Ciliaa	Chargeal and aymour is used in points as a
45.		Charcoal and gypsum is used in paints as a
	,	Plasticizer
	,	Inert filler
		Antiskinning agent
	a)	Thinner
46.	Which	is a mode of failure in a structural member?
		Buckling
		Compression
		Torsion
	,	Equilibrium
	,	1
47.	Which	of the following is a criterion for design of Storm water drainage?
	a)	Catchment Area
	b)	Population of a City/ town
	c)	Number of cloudy days
	d)	Solar irradiance
10	These	contable unice level in Hespital commenced to which of the following?
40.		ceptable noise level in Hospital corresponds to which of the following?
	,	10-15 dB
	,	35-40 dB
	,	60-65 dB
	d)	90-100 dB
49.	Lumin	ous intensity is expressed in which units?
•		Watt
	,	Lumens
		Wall per metre
		Candela
	/	

	of 500 mm, the rainwater harvesting potential from terrace shall bem ³ ?
	1.25
,	12.5
	125
,	1250
u)	1250
	f the following is a passive design feature?
	Solar Chimney
	Air Cooler
· · · · · · · · · · · · · · · · · · ·	Exhaust Fan
d)	Air Conditioner
52. Which G	reen rating system is followed in United Kingdom?
a)	CASBEE
b)	GRIHA
c)	BREEAM
d)	Green Mark
53. Calculate	e the maximum number of 100 sq. m. apartments that can be constructed on a
	e plot, having ground coverage of 40 percent and an FAR of 1.5
	100
b)	
c)	200
d)	150
54. A Smart	City DOES NOT include which among the following?
	Information and Communication Technology
*	Management Information System
	Surveillance System
	Urban Heat Index
55 W/l4-l	and and the Diagram Commission in 20179
	s replaced the Planning Commission in 2017?
	Ayushman Bharat Yojna Valmiki Ambadkar Ayusa Yojna
	Valmiki Ambedkar Awas Yojna Two Million Howing Programme
	Two Million Housing Programme NITI Aayog
u)	NIII Aayog
	n space, Hill, Pond, Zen, Curved elements and use of Symbolic features is a
	stic feature of gardens.
	Mughal
	English
,	Italian
d)	Japanese

a) Epoxy Resin b) Vinyl c) Urea Formaldehyde d) Phenyl Formaldehyde 8. An earthquake with a Richter Scale of 6.0 is classified as a) Strong b) Mild c) Little d) Insignificant 9. The full form of AMRUT is a) Augmented Monuments for Recreation and Urban Transportation b) Atal Mission for Recreation and Urban Transformation c) Atal Mission for Rejuvenation and Urban Transformation d) Associated Monuments for Recreation and Urban Transformation 60. Grade M-25 of concrete mix refers to:
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c) Atal Mission for Rejuvenation and Urban Transformationd) Associated Monuments for Recreation and Urban Transformation
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60. Grade M-25 of concrete mix refers to:
a) 1:2:4
b)1:3:6
c)1:1:3
d)1:1:2
61. If the successful tender fails to submit the additional performance security within no. of working days from the date of issue of letter of acceptance, his earnest money will be forfeited.
a) 7
b) 15
c) 21
d) 28
 62. Plans used to identify site in relation to town plan or other wider context are called: a) General location Plans b) Site plans c) Layout plans d) Professed Plans
d) Reflected Plan
63. India habitat center, New Delhi, was designed by:
a) Charles Correab) Raj Rewal
b) Raj Rewalc) Joseph Allen Stein
d) A. P. Kanvinde

- 64. In CMYK colour model, 'C represents the colour:
 - a) White
 - b) Black
 - c) Blue
 - d) Green
- 65. New parliament house, New Delhi, is designed by:
 - a) Hafez contractor
 - b) Raj Rewal
 - c) Herbert Baker
 - d) Bimal Patel
- 66. Hoop and circumferential forces are associated with:
 - a) Dome
 - b) Truss
 - c) Folded Plate
 - d) Cylinder
- 67. Recommended height for the wash basin as per barrier free norm is:
 - a) 500 600 mm
 - b) 600 850 mm
 - c) 700 800 mm
 - d) 800 900 mm
- 68. The solar protection system consisting of fixed slates or grids outside a building façade in front of openings is known as:
 - a) Solarium
 - b) Trombe Wall
 - c) Malgaf
 - d) Brise-soleil
- 69. Which of the following is the correct sequence from top to bottom for the elements used in the Entablature in ancient Greek Architecture?
 - a) Cyma recta, Corona, Dentil, Frieze, Architrave
 - b) Corona, Cyma recta, Architrave, Frieze, Dentil
 - c) Architrave, Frieze, Corona, Dentil, Cyma recta
 - d) Dentil, Cyma recta, Corona, Frieze, Architrave
- 70. Which of the following is a temple having an apsidal plan?
 - a) Lad Khan Temple, Aihole
 - b) Virupaksha Temple, Pattadakal
 - c) Brihadeshwara Temple, Tanjore
 - d) Papanatha Temple, Pattadakal

- 71. For a PERT activity, the optimistic time, the most likely time and pessimistic time are 1, 2 and 9 days respectively. The expected time for the activity(in days) is:
 - a) 9
 - b) 6
 - c) 4
 - d) 3
- 72. Line up to which the plinth of a building adjoining a street may be law-fully extended is called:
 - a) Building line
 - b) Building boundary
 - c) Building extend
 - d) Building plan
- 73. The raft slab is projected beyond the outer walls of the structure by:
 - a) 5 to 10 cm
 - b) 15 to 20 cm
 - c) 25 to 30 cm
 - d) 30 to 45 cm
- 74. Which type of truss is characterized by multiple diagonal members forming a series of V-shapes?
 - a) Warren truss
 - b) Pratt truss
 - c) K truss
 - d) Vierendeel truss
- 75. A property fetches a net income of Rs.1000/- deducting all outgoings. Workout the capitalized value of the property if the rate of interest is 5% per annum.
 - a) Rs.5000
 - b) Rs.20000
 - c) Rs.10000
 - d) Rs.24000
- 76. According to National Building Code of India, Industrial buildings are categorized under which group of occupancy?
 - a) Group G
 - b) Group E
 - c) Group F
 - d) Group H
- 77. The illumination level of a room is 350 lux and the efficacy of the lamps is 50. What will be the Light Power Density (LPD) of the room in Watt/m²?
 - a) 5 Watt/ m^2
 - b) 7 Watt/ m²
 - c) $10 \text{ Watt/ } \text{m}^2$
 - d) $8 \text{ Watt/ } \text{m}^2$

- 78. Find the reverberation time of a hall having dimensions 50m x 25m x 35m and having the absorption coefficient of 0.15.
 - a) 1.8 sec
 - b) 2.8 sec
 - c) 3.8 sec
 - d) None of the above
- 79. When the load are reversing, the beam is designed as:
 - a) Singly reinforced
 - b) Doubly reinforced
 - c) Over-reinforced
 - d) Cantilever beam
- 80. In planning for malls, the required public and toilet facilities shall be located not more than one storey above or below the space to be served with such facilities, and the path of travel to such facilities shall not exceed:
 - a) 89 m
 - b) 90 m
 - c) 91 m
 - d) 92 m
- 81. A building with a green roof is an example of:
 - a) Climate-responsive design in a hot and humid climate
 - b) Climate-responsive design in a cold climate
 - c) Climate-responsive design in a tropical climate
 - d) Climate-responsive design in an urban environment
- 82. As per National Building Code of India 2016, area for each equivalent car space inclusive of circulation area for open parking, ground floor covered parking and basement respectively is
 - a) 22 sqm, 25 sqm, 30 sqm
 - b) 23 sqm, 28 sqm, 32 sqm
 - c) 20 sqm, 25 sqm, 30 sqm
 - d) 24 sqm, 28 sqm, 32 sqm
- 83. In Autodesk AutoCAD, when in absolute Cartesian coordinates have points A(10.8) and B(6.5), then to make a line from A to B with relative polar coordinates will write:
 - a) @-5<36.88
 - b) @4<30
 - c) @5<216,88
 - d) @3<60

- 84. What type of mode of failure is seen if footing is resting on very dense sand, loaded by transient dynamic loads?
 - a) Local Shear failure
 - b) Transient Shear failure
 - c) Punching Shear failure
 - d) Flexural Failure
- 85. For signage, what should be the minimum height of letters in mm for a viewing distance of 12 m?
 - a) 30
 - b) 32
 - c) 40
 - d) 45
- 86. The modified form of old English cross bond which consists of alternative courses of headers and stretchers is known as:
 - a) Raking bond
 - b) Dutch bond
 - c) Header bond
 - d) Facing bond
- 87. Match List I (Pozzolana) with List II (Properties) and select the correct option from the codes given below:

List I		List II	
A	Iron oxide	1.	Prevent the flash setting of cement.
В	NaCl	2.	Provides strength to the cement.
С	Silica	3.	Accelerates the rate of setting of Plaster of Paris
D	Gypsum	4.	Gives colour to the cement.

Codes:

	Α	В	C	D
a)	2	4	1	3
a) b)	4	3	2	1
c) d)	3	1	4	2
d)	1	2	3	4

88. Match the plants in List I with their prime uses in List II: List II List I A. Bignonia magnifica 1. Grass cover B. Ixora chinensis 2. Wall climbers C. Cassia fistula 3. Topiary D. Wedeliatrilobata 4. Arboriculture Codes: В \mathbf{C} D Α 4 2 3 a) 1 4 3 1 2 b) 2 3 4 1 c) 2 3 4 1 d) 89. A casement window hung horizontally is called _____ window. a) Hopper b) Awning c) Pivot d) Transom 90. What is Postmodernism in architecture primarily defined as? a) A historical revival movement b) A reaction against modernism c) A formalist belief in function over form d) A style based around the use of modern materials 91. Interface of two ecological zones is termed as: a) Promontories b) Ecotone c) Biome d) Ecosystem 92. Match the Landscape designers listed in List I with their appropriate contribution from List II and choose the correct option from the codes given below: List I List II A. Lancelot Capability Brown 1. Kew gardens B. Andre le Notre 2. Versailles garden C. Joseph Paxton 3. Central park D. Frederick Law Olmstead 4. Crystal Palace

a)

b)

c)

A

3

1

В

3

1

2

C

4

3

Codes:

D

2

2

4

3

- 93. Hierarchy of courts, hierarchy of gates and zoomorphic forms are the features of which type of garden? a) Japanese b) Mughal garden c) Chinese garden d) English garden 94. In horizontal DPC, the thickness of the cement concrete is
- a) 8 CM

 - b) 4 CM
 - c) 3 CM
 - d) 6 CM
- 95. A roof with slope in two directions with a break in slope on each side is called as:
 - a) Gambrel roof
 - b) Gabel roof
 - c) Skillion and Lean to
 - d) French roof
- 96. The direct and indirect cost estimated by a contractor for bidding a project is Rs.160000 and Rs. 20000 respectively. If the markup applied is 10% of the bid price, the quoted price of the contractor is:
 - a) Rs.216000
 - b) Rs.196000
 - c) Rs. 200000
 - d) Rs. 190000
- 97. The PVCN range of paint for prime coat on metals is:
 - a) 50-70
 - b) 25-40
 - c) 50-60
 - d) 55-60
- 98. Which of the following constructions is effective against both air-borne and structureborne sounds?
 - a) Timber floor floating construction
 - b) Use of resilient surface material
 - c) Timber floor with suspended ceiling and air space
 - d) Concrete floor floating construction
- 99. The echo will be detectable to a human ear in which of the following room dimension? Assume that the surfaces are not good absorbers.
 - a) 4m x 5m
 - b) 18m x 4m
 - c) 10m x 3m
 - d) 12m x 12m

- 100. Maintenance Ratio in lighting calculation is defined as:
 - a) The ratio of illumination under normal working conditions to the illumination when everything is clean.
 - b) The ratio of illumination under normal working conditions to the illumination when everything is dirty.
 - c) The cost of human labor to clean 1SqM of the surface
 - d) None of the above
- 101. Which of the following features of Indian temples resembles pylons of the Egyptian temples?
 - a) Vimana
 - b) Shikara
 - c) Gopura
 - d) Antarala
- 102. Which of the following architectural structures is not a contribution of Sir Edwin Lutyen?
 - a) Rashtrapati Bhavan
 - b) Parliament House
 - c) Hyderabad House
 - d) Connaught Place
- 103. What is another name of 'Gate of Magnificence, the highest gateway of India at Fatehpur Sikri built by Akbar?
 - a) Teen Darwaza
 - b) Alai Darwaza
 - c) Buland Darwaza
 - d) India Gate
- 104. Service tax rate for architectural consultancy fees in India is:
 - a) 5%
 - b) 12%
 - c) 18%
 - d) 24%
- 105. Which of the following gives the highest sound absorption in a room?
 - a) Rigid wall
 - b) Rough ceiling
 - c) Soft curtain
 - d) Open window
- 106. The rafter that makes the closed triangular end of a pitched roof in timber is called:
 - a) Jack rafter
 - b) Valley rafter
 - c) Common rafter
 - d) Hip rafter

- 107. In case of a double roof of timber, which of the following statement is not correct?
 - a) The rafter is supported on purlins
 - b) The purlins is supported on end walls
 - c) The batten is supported on rafters
 - d) The purlin is supported on trusses
- 108. Trapezoidal footing is a:
 - a) Column footing
 - b) Combined footing
 - c) Stepped footing
 - d) Deep foundation
- 109. In pressure supply mains, water hammer pressure is reduced by providing:
 - a) Sluice valves
 - b) Air valves
 - c) Pressure relief valves
 - d) Suction Valve
- 110. Mostly used coagulant is:
 - a) Chlorine
 - b) Alum
 - c) Lime
 - d) Bleaching powder
- 111. Associate the plans in List I with the options in List II and choose the correct option from the codes given below:

List I	List II
A. City Development plan	1. PMGSY
B. Slum Free City Plan	2. JNNURM
C. Transport Network Plan	3. RAY
D. Disaster Management Plan	4. NDMA

Codes:

	Α	В	C	D
a)	2	3	1	4
b)	3	2	1	4
c)	2	1	3	4
d)	1	3	2	4

- 112. Which of the following Mud wall construction is preferred in Earthquake prone zones?
 - a) Adobe
 - b) Wattle and Daub
 - c) Stabilized mud block
 - d) Rammed earth

	n height of habitable rooms is 2.5 m
b)	2.75 m
c)	1.5 m
,	2 m
114. What is the material?	ne type of slab in which some part of cement is replaced with cheap light weight
a)	Collar slab
b)	Waffle slab
c)	Flat slabs
d)	Filler slab
115. Which of a)	the following is a non-natural defect in wood? Chemical Stain
b)	Twisted fibre
c)	Upsets
d)	Conversion
116. Clerestory a)	windows are high and vertically placed windows. They can be used to increase when oriented towards the equator. Indirect gain
,	Isolated gain
	Direct Solar gain
d)	Indirect heat gain
117. Increased a)	height of the room gives better ventilation due to Venturi effect
b)	Bernoulli's effect
c)	Stack Effect
d)	Light effect
b) c)	Scale is: Scale representing wind speed Scale for measuring humidity Scale for measuring earthquake Scale measuring landslide

	is to be provided for a residence with floor height of 3m. If the space available for r is 4m x 2.5m, what kind of stair you propose?
the star	a) Open-well
	b) Bifurcated
	c) Dog-legged
	d) All the above
3	sts in a Single Timber Floor is provided, while it isin a Double
Floor.	
	a) across the span, along the span
	b) along the span, across the span
	c) across the span, across the span
	d) along the span, along the span

SPACE FOR ROUGH WORK