## **FINAL ANSWER KEY**

77/2017/OL

Junior Instructor(Architectural Assistant) (SR for

**Industrial Training Department** 

466/2016

SC/ST)

English 16-09-2017

Question Paper Code:

Medium of Question:

Category Code:

Date of Test Department

Exam:

Alphacode Question1:-When was the preamble to the constitution of India first amended? A:-1951 B:-1971 C:-1976 D:-Never Correct Answer:- Option-C Question2:-The recipient of 'Inanpith Award' in the year 2016 A:-Mahasweta Devi B:-Shankha Ghosh C:-Reghuveer Chaudhari D:-Bhalchandra Nemada Correct Answer:- Option-B Question3:-The Portuguese established printing in Kerala in the year A:-1577 B:-1498 C:-1502 D:-1524 Correct Answer:- Option-A Question4:-Autobiography 'Ente Vazhithiruvu' belongs to A:-M.C. Joseph B:-T.R. Krishnaswami Iyer C:-Makthi Thangal D:-Ponkunnam Varkey Correct Answer:- Option-D Question5:-The idea of an elected President at the head of the Parliamentary system, India borrowed from A:-United Status of America B:-Ireland C:-Australia D:-Canada Correct Answer:- Option-B Question6:-The year of Paliyam Sathyagraha A:-1946 B:-1943 C:-1948 D:-1931 Correct Answer:- Option-C Question7:-The States Reorganisation Act created \_\_\_\_\_\_ states and \_\_\_\_\_ Union territories. A:-14:6 B:-14:7 C:-13:6 D:-13:5 Correct Answer:- Option-A Question8:-The ordinance issued by the governor are subject to approval by A:-Parliament B:-State legislature C:-President D:-None Correct Answer:- Option-B

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Question9:-Samathwa Samajam founded by
    A:-Swami Vagbhatananda
    B:-K.P. Vellon
    C:-Brahmananda Sivayogi
    D:-Vaikunta Swami
    Correct Answer:- Option-D
Question10:-The modified form of 'Right To Information Act' passed on
    A:-February 2000
    B:-February 2011
    C:-February 2012
    D:-February 2013
    Correct Answer:- Option-B
Question11:-How many types of emergencies has the constitution envisaged
    A:-One
    B:-Two
    C:-Three
    D:-Four
    Correct Answer:- Option-C
Question12:-World Environment Day theme for 2017
    A:-Connecting people to nature
    B:-Only one earth
    C:-One world one environment
    D:-Save earth from pollution
    Correct Answer:- Option-A
Question13:-The first recipient of Vayalar Sahithya Puraskaram
    A:-Anna Chandi
    B:-Lalithambika Antharjanam
    C:-Parvathi Nenmenimangalam
    D:-Akkamma Cheriyan
    Correct Answer:- Option-D
Question14:-Prathyaksha Raksha. Daiva Sabha founded in the year _____ by Poikayil Youhannan.
    A:-1948
    B:-1923
    C:-1909
    D:-1917
    Correct Answer:- Option-C
Question15:-Herman Gundert, member of Basel-Evangelical mission started the newspaper
    A:-Paschimodayam
    B:-Deepika
    C:-Prabhatham
    D:-Vivekodayam
    Correct Answer: - Option-A
Question16:-The slogan 'Travancore for Travancorean's was related to
    A:-Temple Entry Proclamation
    B:-Ezhave memorial
    C:-Abstention movement
    D:-Malayalee memorial
    Correct Answer:- Option-D
Question17:-Founder editor of the newspaper 'Kerala Kaumudi'
    A:-C. Kesavan
    B:-C.V. Kunjaraman
    C:-P. Krishna Pillai
    D:-Barrister G.P. Pillai
    Correct Answer:- Option-B
Question18:-Kerala Sahithya Academy President
    A:-Vysakhan
    B:-M. Santhosh Kumar
    C:-George Onakkoor
    D:-Palliyara Sreedharan
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Correct Answer: - Option-A
Question19:-The organisation 'Sugunavardhini' was formed by
    A:-Thycaud Ayya Vaikundar
    B:-Pandit K.P. Karuppan
    C:-Dr. Ayyathan Gopalan
    D:-Moorkoth Kumaran
    Correct Answer:- Option-C
Question20:-Vayanadinam or Day of reading is observed on
    A:-January 19
    B:-July 19
    C:-July 29
    D:-June 19
    Correct Answer:- Option-D
Question21:-The compass observes the angle made by the survey line
    A:-True meridian
    B:-Magnetic meridian
    C:-Arbitrary meridian
    D:-Grid meridian
    Correct Answer:- Option-B
Question22:-V-shaped contours cross a
    A:-Ridge line
    B:-Valley line
    C:-Saddle
    D:-Pond
    Correct Answer:- Option-B
Question23:-The length of Gunter's chain is
    A:-100 ft
    B:-50 ft
    C:-66 ft
    D:-76 ft
    Correct Answer:- Option-C
Question24:-The maximum tolerance in a 20 m chain is
    A:-±2 mm
    B:-±3 mm
    C:-±5 mm
    D:-±8 mm
    Correct Answer:- Option-C
Question25:-Correction due to refraction is given by
    A:-0.0112 `D^(2)`
    B:-0.0785 `D^(2)`
    C:-0.0673 `D^(2)`
    D:-0.0012 `D^(2)`
    Correct Answer: - Option-A
Question26:-The chain man who drags the chain is called
    A:-Captain
    B:-Leader
    C:-Follower
    D:-Labour
    Correct Answer:- Option-B
Question27:-The smallest length that can be drawn on a map is
    A:-0.2 mm
    B:-0.5 mm
    C:-10 mm
    D:-15 mm
    Correct Answer: - Option-A
Question28:-Wing nuts are provided on
    A:-Bubble tubes
    B:-Diaphragm
    C:-Standard
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D:-Tripord
     Correct Answer:- Option-D
Question29:-The lines joining points of equal dip are called
     A:-Aclinic lines
     B:-Isogonic lines
     C:-Agonic lines
     D:-Isoclinic lines
     Correct Answer:- Option-D
Question30:-The object of surveying is to produce a
    A:-Drawing
     B:-Cross-section
     C:-Sketch
     D:-Map
     Correct Answer:- Option-D
Ouestion31:-A level surface is
     A:-a parabolic surface
     B:-an elliptical surface
     C:-a spherical surface
     D:-a plane surface
     Correct Answer:- Option-C
Question32:-For mountainous region, a suitable contour interval may be
    A:-0.2 m
     B:-2 m
     C:-20 m
     D:-200 m
     Correct Answer:- Option-B
Question33:-Angle between true north and magnetic north is
    A:-Dip
     B:-Declination
     C:-Departure
     D:-Deviation
     Correct Answer:- Option-B
Question34:-Tellurometer is an instrument used for
    A:-GPS
    B:-EMR
     C:-GTS
     D:-EDM
    Correct Answer:- Option-D
Question35:-Three point problem in plane table is a method of
     A:-Resection
     B:-Radiation
    C:-Resolution
     D:-Intersection
     Correct Answer: - Option-A
Question36:-The head room in a stair case should not be less than
     A:-3.5 m
    B:-3 m
     C:-2.10 m
     D:-2 m
     Correct Answer:- Option-C
Question37:-The rocks formed due to solidification of molten mass are called
     A:-Aqueous rocks
     B:-Sedimentary rocks
     C:-Metamorphic rocks
     D:-Igneous rocks
     Correct Answer:- Option-D
Question38:-Most economical method of sawing wood is
     A:-Ordinary sawing
     B:-Quarter sawing
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C:-Tangential sawing
     D:-Radial sawing
     Correct Answer:- Option-A
Question39:-Water absorption of vitrified tiles is not more than
     A:-0.5%
    B:-1.0%
     C:-2.0%
    D:-5.0%
    Correct Answer:- Option-A
Question40:-Purest form of iron is
    A:-Pig iron
    B:-Cast iron
     C:-Wrought iron
     D:-Steel
     Correct Answer:- Option-C
Question41:-Which one of the following does not belong to exogenous tree?
    A:-Deodar
    B:-Pine
    C:-Mahogany
     D:-Bamboo
     Correct Answer:- Option-C
Question42:-Alumina is brick earth gives the bricks
     A:-Resistance to shrinkage
    B:-Plasticity
     C:-Colour
    D:-Strength
     Correct Answer:- Option-B
Question43:-The major constituent of cement is
    A:-Lime
     B:-Silica
     C:-Alumina
    D:-Iron oxide
     Correct Answer: - Option-A
Question44:-Concrete should not be placed by dropping at a height more than
    A:-400 mm
     B:-600 mm
    C:-800 mm
    D:-1000 mm
     Correct Answer:- Option-C
Question45:-Coefficient of thermal expansion is highest in
     A:-Basalt
     B:-Granite
     C:-Sandstone
     D:-Quartzite
    Correct Answer:- Option-D
Question46:-Which of the following metal is poisonous?
    A:-Copper
     B:-Lead
     C:-Tin
     D:-Aluminium
     Correct Answer:- Option-B
Question47:-Portion of the brick cut across full width is known as
    A:-Queen closer
     B:-King closer
     C:-Mitred closer
     D:-Bat
     Correct Answer:- Option-D
Question48:-Vertical faces of walls meant for fixing door, window or ventilator are known as
    A:-Jambs
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B:-SIIIS	
C:-Corbels	
D:-Coping	
Correct Answer:- Option-A	
Question49:-Steps provided from ground to main entrance in external wall is called	
A:-Threshold	
B:-Stairs	
C:-Pedestal	
D:-Any of the above	
Correct Answer:- Option-A	
Question50:-Reinforced brick construction is commonly used for	
A:-Walls	
B:-Partition walls	
C:-Compound walls	
D:-Lintels	
Correct Answer:- Option-D	
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Question51:-The horizontal members of panelled doors are known as	
A:-Styles	
B:-Rails	
C:-Ledges	
D:-Bracings	
Correct Answer:- Option-B	
Question52:-The fixture provided on external door for locking is known as	
A:-Tower bolt	
B:-Barred bolt	
C:-Flush bolt	
D:-Aldrop bolt	
Correct Answer:- Option-D	
Question53:-Maximum size of coarse aggregate used as a base course in ground floor is	5
A:-12 mm	
B:-20 mm	
C:-40 mm	
D:-50 mm	
Correct Answer:- Option-C	
Question54:-Development of fine hair cracks in plastered surface is known as	
A:-Cracking	
B:-Crazing	
C:-Blistering	
D:-Flaking	
Correct Answer:- Option-B	
Question55:-If sheets or mastic asphalt are used for damp proofing, the lap should not be	pe less than
A:-100 mm	
B:-125 mm	
C:-150 mm	
D:-200 mm	
Correct Answer:- Option-A	
Question56:-Which one of the following is a fundamental law of forces?	
A:-Triangle law	
B:-Polygonal law	
C:-Parallelogram law	
D:-Lami's theorem	
Correct Answer:- Option-C	
Question57:-If a material has identical properties in all directions, it is said to be	
A:-Homogeneous	
B:-Elastic	
C:-Orthotropic	
D:-Isotropic	
Correct Answer:- Option-D	
Question58:-Maximum shear stress in a beam of rectangular cross section is	times the average shear stress

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A:-1.25
     B:-1.5
     C:-2.0
     D:-4.0
     Correct Answer:- Option-B
Question59:-Kern of a rectangular column is having shape.
     A:-Rectangular
     B:-Square
    C:-Diamond
     D:-Triangular
     Correct Answer:- Option-C
Question60:-Section modulus of a triangular cross-section of width b and height h is
    A:-`(bh^(2))/(24)`
     B:-`(bh^(3))/(24)`
     C:-`(bh^(3))/(36)`
     D:-\(bh^(2))/(18)\
     Correct Answer:- Option-A
Question61:-Minimum number of bars to be provided in a circular column is
     B:-6
     C:-8
     D:-12
     Correct Answer:- Option-B
Question62:-Which one of the following is not the diameter of market form of reinforcing bar?
     A:-16 mm
    B:-18 mm
     C:-20 mm
    D:-22 mm
     Correct Answer:- Option-B
Question63:-In the working stress method of R.C.C. design factor of safety used for concrete and steel are respectively
    A:-3 and 1.85
    B:-4 and 1.85
    C:-4 and 2
    D:-3 and 1.5
     Correct Answer: - Option-A
Question64:-A column is considered long, if the effective length to least lateral dimension is more than
    A:-10
     B:-12
     C:-15
     D:-18
     Correct Answer:- Option-B
Question65:-Which of the following has high tensile strength?
    A:-Mild steel
     B:-Plain hot rolled wires
     C:-Cold drawn wires
     D:-Thermo mechanically treated bars
     Correct Answer:- Option-C
Question66:-Water tanks should be designed by
     A:-Working stress method
     B:-Ultimate load method
     C:-Limit state method
     D:-Any of the above
     Correct Answer: - Option-A
Question67:-Weldability of steel is enhanced by allowing it with
    A:-Carbon
     B:-Sulphur
    C:-Chrome
     D:-Nickel
     Correct Answer: - Option-B
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Question68:-The most economical section for a compression member is
    A:-Rectangular
     B:-I-shaped
     C:-Circular
     D:-Hollow circular
     Correct Answer:- Option-D
Question69:-In a residential building, while designing stairs, live load to be taken is
     A:-(3 kN)/(m^{(2)})
     B:-(4 kN)/(m^{(2)})
     C:-(4.5 \text{ kN})/(m^{2})
     D:-(5 kN)/(m^{2})
     Correct Answer: - Option-A
Question70:-The angle of contact between mercury and solid surface is
    A:-0°
    B:-45°
    C:-90°
     D:-more than 90°
     Correct Answer:- Option-D
Question71:-The unit of measurement for concrete work in R.C.C. is in
    A:-Sa m
     B:-Cu m
    C:-10 sq m
     D:-10 Cu m
     Correct Answer:- Option-B
Question72:-A column that fails due to direct stress, is called
    A:-Short column
     B:-Long column
     C:-Weak column
     D:-Medium column
     Correct Answer: - Option-A
Question73:-For D.P.C at plinth level, the commonly adopted material is
     A:-Bitumen sheeting
     B:-Plastic sheeting
    C:-Cement concrete
     D:-Mastic asphalt
     Correct Answer:- Option-C
Question74:-The construction of a temporary structure required to support an unsafe structure, is called
    A:-Underpinning
     B:-Scaffolding
     C:-Shoring
     D:-Jacking
     Correct Answer:- Option-C
Question75:-Trimmed size of `A (2)` drawing sheet
    A:-494 \times 521
     B:-594 × 841
    C:-520 \times 594
    D:-420 × 594
     Correct Answer:- Option-D
Question76:-Which conic is known as "central conic"?
    A:-Ellipse
    B:-Circle
     C:-Parabola
     D:-Hyperbola
     Correct Answer:- Option-D
Question77:-Which one is not a conic section?
     A:-Ellipse
     B:-Parabola
     C:-Hyperbola
     D:-Circle
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Correct Answer:- Option-D
Question78:-T-square is used for drawing
    A:-Inclined lines
    B:-Curved lines
    C:-Horizontal lines
    D:-Vertical lines
     Correct Answer:- Option-C
Question79:-Visual ray method is used for drawing projection.
    A:-Perspective
    B:-Isometric
    C:-Oblique
    D:-Orthographic
    Correct Answer:- Option-A
Question80:-The angle of a miter line is ______ degrees.
    A:-75
    B:-60
    C:-45
    D:-30
    Correct Answer:- Option-C
Question81:-A byte consists of _____ bits.
    A:-64
    B:-32
     C:-16
    D:-8
    Correct Answer:- Option-D
Question82:-The file extension of a drawing template is
    A:-.dwg
    B:-.dxf
    C:-.dws
    D:-.dwt
     Correct Answer:- Option-D
Question83:-F9 is the short key of _____.
    A:-ORTHO
    B:-SNAP
    C:-OSNAP
    D:-POLAR
    Correct Answer:- Option-B
                 ____ is the command used in convert polyline to line.
Question84:-
    A:-Explode
    B:-Join
    C:-Extent
    D:-Extrim
    Correct Answer:- Option-A
Question85:-'XL' is the short cut key of
    A:-Erace
    B:-Hatch
    C:-Construction line
    D:-Scale
     Correct Answer:- Option-C
Question86:-The behaviour of concrete under instantaneous loads is
    A:-Elastic
    B:-Plastic
    C:-Anelastic
    D:-Visco-elastic
     Correct Answer: - Option-A
Question87:-Separation of ingredients from concrete during transportation is known as
    A:-Bleeding
    B:-Creep
     C:-Segregation
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Correct Answer:- Option-C
Question88:-Durability of cement concrete generally improves by
     A:-Addition of sand
     B:-Addition of cement
     C:-Vibrations
     D:-Additions of coarse aggregate
     Correct Answer:- Option-B
Question89:-The ratio of Young's modulus of elasticity for steel to that for concrete is known as
     A:-Specific ratio
     B:-Modular ratio
     C:-Poisson's ratio
     D:-Elasticity ratio
     Correct Answer:- Option-B
Question90:-The fineness modulus of fine aggregate is in the range of
     A:-7.0 to 10.0
     B:-5.0 to 7.0
     C:-3.5 to 5.0
     D:-2.0 to 3.5
     Correct Answer:- Option-D
Question91:-Shrinkage in concrete increases its
     A:-Tensile strength
     B:-Flexural strength
     C:-Bond strength
     D:-Shear strength
     Correct Answer:- Option-C
Question 92:-The deflection at any section of a beam is of the corresponding section of the conjugate beam.
     A:-Shear force
     B:-Bending moment
     C:-Deflection
     D:-Slope
     Correct Answer:- Option-B
Question93:-The rate of change of bending moment is equal to
     A:-Shear force
     B:-Deflection
     C:-Slope
     D:-Poisson's ratio x deflection
     Correct Answer:- Option-A
Question94:-The density of cement is generally
     A:-(1500 \text{ kg})/(m^{(3)})
     B:-(1750 \text{ kg})/(\text{m}^{(3)})
     C:-\(1250 kg)/(m^(3))\
     D:-(2000 \text{ kg})/(m^{(3)})
     Correct Answer:- Option-A
Question95:-A member subjected to tensile stresses is known as
     A:-Principal rafter
     B:-Purlin
     C:-Strut
     D:-Tie
     Correct Answer:- Option-D
Question 96:- The ratio of moment of inertia of a rectangle about its centroidal axis to the moment of inertia about its base
     A:-2
     B:-3/4
     C:-1/2
     D:-1/4
     Correct Answer:- Option-D
Question 97:- The maximum bending moment of a simply supported beam of span I and carrying a point load W at the centre
of the beam is
     A:-WI/4
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D:-Shrinkage

B:-WI/2

C:-WI

D:-`(WI^(2))/(4)`

Correct Answer:- Option-A

Question98:-In slabs and beams creep is responsible for

A:-Bending

B:-Deflection

C:-Cracking

D:-Shrinkage

Correct Answer:- Option-B

Question99:-In theory of simple bending the bending stress in the beam section varies

A:-Parabolically

B:-Elliptically

C:-Linearly

D:-None of them

Correct Answer:- Option-C

Question100:-In architecture design the absence of monotony is called

A:-Proportion

B:-Balance

C:-Contrast

D:-Rhythm

Correct Answer:- Option-C