FINAL ANSWER KEY

Question Paper Code: 80/2017/OL Category Code: 462/2016

Exam: Lecturer Architecture Engineering(SR for ST)

Medium of Question: English
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Department Technical Education

Alphacode A

Question1:-Amongst the following for whose removal Parliament's resolution is not needed?

A:-Chief Election Commissioner

B:-Governor of a State

C:-Judge of Supreme Court

D:-Comptroller and Auditor General

Correct Answer:- Option-B

Question2:-The Right to Information Act was passed by Parliament on

A:-`15^(th)` June, 2005 B:-`12^(th)` October, 2005 C:-`22^(nd)` June, 2005

D:-`22^(nd)` November, 2005

Correct Answer:- Option-A

Question3:-Who prepared the first Malayalam Dictionary?

A:-Dr. Angelos Francis

B:-Benjamin Beyli

C:-Arnos Pathiri

D:-Dr. Herman Gundert Correct Answer:- Option-C

Question4:-In which year Kuriakose Elias Chavara was declared as blessed one by pope of Rome?

A:-1996

B:-1987

C:-1985

D:-1986

Correct Answer:- Option-D

Question5:-As a result of Channar Revolt, which Travancore ruler was forced to permit the Channar women to wear jacket in 1859.

A:-Uthram Thirunal Maharaja

B:-Gauri Parvathy Bhai

C:-Sri Chithira Thirunal Balarama Varma

D:-Swathi Thirunal

Correct Answer: - Option-A

Question6:-'Prabhatham' a newspaper started at Shornar in 1934 under the guidelines.

A:-K. G. Sankar

B:-E. M. S. Namboodiri Pad

C:-Kunhunni Achan

D:-A. K. Pillai

Correct Answer:- Option-B

Question7:-Who is known as the Jhansi Rani of Travancore?

A:-A. V. Kuttimalu Amma

B:-Annie Mascrene

C:-Akkamma Cherian

D:-Annachandi

Correct Answer:- Option-C

Question8:-Who made the Kozhencherry speech in relation with the Nivarthana Agitation?

A:-C. V. Kunchiraman

B:-P. Krishna Pillai

C:-Barrister G. P. Pillai

D:-C. Kesavan

Correct Answer:- Option-D

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A:-Azhakath Padmanabha Kurup
     B:-Kodungallur Kunhikuttan Thampuran
     C:-Kerala Varma Valia Koil Thampuran
     D:-Vallathole Narayana Menon
     Correct Answer:- Option-B
Question10:-Which launching vehicle recently carried 104 satellite to orbit?
     A:-PSLV-C 28
     B:-PSLV-C 31
     C:-PSLV-C 37
     D:-PSLV-C 20
     Correct Answer:- Option-C
Question11:-If A = [[i,0],[0,i]], then A^(4) is equal to
     A:-`[[i,0],[0,i]]`
     B:-`[[-i,0],[0,-i]]`
     C:-`[[1,0],[0,1]]`
     D:-`[[-1,0],[0,-1]]`
     Correct Answer:- Option-C
Question12:-If every element of a third order determinant of value \Delta is multiplied by 5, then the value of the new
determinant is
     Α:-Δ
     B:-Δ<sup>3</sup>
     C:-5∆
     D:-125∆
     Correct Answer:- Option-D
Question 13:-Which of the following function is differentiable at x = 0?
     A:-f(x) = \frac{\sin((1)/(x))}{\sin((1)/(x))}, x! = 0, (0, 1)
                                                 x = 0:
     B:-f(x) = \{(x \sin((1)/(x)), x!=0), (0, x=0):\}
     C:-f(x) = {(x^{(2)} sin ((1)/(x)),}
                                         x != 0, (0,
                                                         ,x = 0):
     D:-f(x) = \{(\cos((1)/(x)),
                                   x != 0, (0, x = 0):
     Correct Answer:- Option-C
Question 14:- The maximum value of the function f(x) = 5x + 3 in the interval [-5, 5] is
     A:-28
     B:--22
     C:-3
     D:-Maximum value of f(x) does not exist in [-5, 5]
     Correct Answer:- Option-A
Question 15:- The area of the region bounded by the curve y = \operatorname{sqrt}(x), the lines x = 1 and y = 0 is given by
     A:-`(4)/(3)`
     B:-\(2)/(3)\
     C:-\(1)/(3)\
     D:-\(3)/(2)\
     Correct Answer:- Option-B
Question 16: An integrating factor for the first order linear differential equation (dy)/(dx) - (y)/(x) = x^(3) is
     A:-x
     B:--x
     C:--`(1)/(x)`
     D:-`(1)/(x)`
     Correct Answer:- Option-D
Question17:-\`int\`\(dx)/(1 + sqrt(x))\` is equal to
     A:-2`sqrt(x)` - 2\log |1 + \text{`sqrt(x)`}| + c
     B:-2 \cdot sqrt(x) + 2log | 1 + sqrt(x) | + c
     C:-\operatorname{sqrt}(x) - \log|1 + \operatorname{sqrt}(x)| + c
     D:-2(1 + sqrt(x)) + c
     Correct Answer: - Option-A
Question 18:- The equation of the straight line that has x-intercept -3 and is perpendicular to the line 3x + 5y = 4
     A:-5x - 3y - 15 = 0
     B:-5x - 3y + 15 = 0
     C:-3x + 5y - 4 = 0
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Question9:-Who was the great poet, translated whole of Mahabharata into Malayalam?

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D:-5x + 3y - 15 = 0
          Correct Answer:- Option-B
Question19:-If sin\theta + cosec\theta = 2, then sin^2(2) + cosec^2 + co
          A:-0
          B:-3
          C:-2
          D:-1
          Correct Answer:- Option-C
Question 20:- The term independent of x in (2x - (1)/(x))^{(10)} is
          A:-`6^(th)`
          B:-`5^(th)`
          C:-`11^(th)`
          D:-`2^(nd)`
          Correct Answer:- Option-A
Question21:-The PIV rating of each diode in a bridge rectifier is ______ that of the equivalent centre tap rectifier.
          A:-One-half
          B:-The same as
          C:-Twice
          D:-Four times
          Correct Answer:- Option-A
Question22:-In an unregulated power supply, if load current increases, the output voltage
          A:-Remains the same
          B:-Decreases
          C:-Increases
          D:-None of the above
          Correct Answer:- Option-B
Question23:-In a hand off, a mobile station can communicate with two base stations at the same time.
          A:-Hard
          B:-Soft
          C:-Medium
          D:-None of the above
          Correct Answer:- Option-B
Question24:-The 8051 microcontroller is of pin package and has a processor.
          A:-30, 1 byte
          B:-20, 1 byte
          C:-40, 8 bits
          D:-40, 8 bytes
          Correct Answer:- Option-C
Question25:-Which of the following statements about a single pole double throw relay is not true?
          A:-It is called an SPDT type of relay
          B:-It has one common contact
          C:-It has two positions (NC and NO)
          D:-It has centre off position
          Correct Answer:- Option-D
Question26:-A first class brick should have a minimum crushing strength of _____
          A:-7.0 N/mm^(2)
          B:-10.5 N/`mm^(2)`
          C:-12.5 N/`mm^(2)`
          D:-14.0 N/`mm^(2)`
          Correct Answer:- Option-B
Question27:-Durability of concrete is proportional to
          A:-Water-cement ratio
          B:-Sand content
          C:-Cement-aggregate ratio
          D:-Aggregate-water ratio
          Correct Answer:- Option-C
Question28:-If 'D' is the diameter of the well of a well foundation, then the thickness of its staining is generally about
          A:-D/2
          B:-D/3
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C:-3/4 D
     D:-D/4
     Correct Answer:- Option-D
Question29:-Reciprocal ranging is adopted when the following is encountered
     A:-A hillock
     B:-A dense forest
     C:-A river
     D:-A tall building
     Correct Answer: - Option-A
Question 30:-In profile leveling on a road, if the staff readings on two neighbouring pegs 20 m apart are 1.200 and 1.000
respectively, then the road has a
     A:-Rising gradient of 1 in 100
     B:-Falling gradient of 1 in 100
     C:-Rising gradient of 1 in 20
     D:-Falling gradient of 1 in 20
     Correct Answer: - Option-A
Question31:-For completing one cycle of operation in a four stroke engine, the number of revolutions of crank shaft equal to
     A:-One
     B:-Two
     C:-Three
     D:-Four
     Correct Answer:- Option-B
Question32:-To start the petrol engine, fuel-air mixture required is
     A:-Lean
     B:-Rich
     C:-Chemically correct
     D:-None of these
     Correct Answer:- Option-B
Question33:-The device which is used for smoothing out the power impulses in an engine is
     A:-Clutch
     B:-Differential
     C:-Torque converter
     D:-Fly wheel
     Correct Answer:- Option-D
Question34:-Which can be set up economically for large power production?
     A:-Hydro-electric power plants
     B:-Diesel power plants
     C:-Steam power plants
     D:-Gas turbines
     Correct Answer: - Option-A
Question35:-The degree of reaction of a turbine is defined as the ratio of enthalpy drop in
     A:-Moving blades to enthalpy drop in fixed blades
     B:-Fixed blades to enthalpy drop in moving blades
     C:-Moving blades to enthalpy drop in stage
     D:-Fixed blades to enthalpy drop in stage
     Correct Answer:- Option-C
Question 36:- Obtain the average power in a pure resistive circuit of 10 \Omega when the current flowing through it is i = 10 \cos \omega t
     A:-600 W
     B:-750 W
     C:-500 W
     D:-400 W
     Correct Answer:- Option-C
Question37:-When a dielectric is placed in an electrical field the field strength
     A:-Decreases
     B:-Increases
     C:-Reduce to zero
     D:-Remain unchanged
     Correct Answer: - Option-A
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Question38:-An emf of 16 volts is induced in a coil of inductance 4 H. What must be the rate of charge of current?
A:-6.5 A/sec
B:-4 A/sec
C:-5 A/sec
D:-7 A/sec
Correct Answer:- Option-B
Question39:-An air-cored toroidal coil has 450 turns and a mean diameter of 30 cm and cross sectional area of 3 `cm^(2)` Calculate the inductance of the coil.
Α:-0.65 μΗ
B:9 μH
C:-0.7 μH
D:-0.81 µH
Correct Answer:- Option-D
Question40:-When earth fault occurs
A:-Voltage potential at the earth mat increases due to grounding
B:-Voltage potential at the earth mat decreases due to grounding
C:-Voltage potential at the earth mat remains zero irrespective of fault D:-None of the above
Correct Answer:- Option-A
Question41:-Rotational inertia is called
A:-Bending moment
B:-The moment of inertia
C:-Radius of gyration
D:-Inertia tensor
Correct Answer:- Option-B
Question42:-The steepest angle of repose is called
A:-Talus
B:-Shear angle
C:-Septilus
D:-Momentum
Correct Answer:- Option-A
Question43:-Young's modulus measures the property of of a solid material.
A:-Hardness
B:-Toughness
C:-Stiffness
D:-Softness
Correct Answer:- Option-C
Question44:-A material with Poisson's ratio of 0 is
A:-Cork
B:-Steel
C:-Copper
D:-Rubber
Correct Answer:- Option-A
Question45:-Neutral axis of a beam is a line through the centre of area of cross section at angle to the applied
load.
A:-Declined angle
B:-Inclined angle
C:-Right angle
D:-Zero angle
Correct Answer:- Option-C
Question46:-Euler's formula establishes the fundamental relationship between complex exponential function and
<u> </u>
A:-Imaginary numbers
B:-Trigonometric function
C:-Lateral function
D:-Divise function
D:-Divise function Correct Answer:- Option-B

B:-Kappa

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C:-Theta
     D:-Phi
     Correct Answer:- Option-A
Question48:-M 25 grade of concrete would have a mix proportion of
     A:-1:2:4
    B:-1:3:6
    C:-1: 1.5: 3
    D:-1:1:2
     Correct Answer:- Option-D
Question49:-Lateral torsional buckling occurs in
    A:-T-beam
     B:-I-beam
     C:-H-beam
    D:-C-beam
     Correct Answer:- Option-B
Question50:-A material which is not suitable for rivet work
     A:-Aluminium
    B:-Copper
    C:-Brass
     D:-Low carbon steel
     Correct Answer: - Option-A
Question51:-The IS codes specified tensile strength of the material used for riveting is
    A:-20 MPa
     B:-30 MPa
     C:-40 MPa
    D:-50 MPa
    Correct Answer:- Option-C
Question52:-In a T-beam, the web resist
    A:-Compression
     B:-Shear stress
     C:-Tension
    D:-Torsion
     Correct Answer:- Option-B
Question53:-Granite is a polymineralic rock composed of
    A:-Augite and chlorite
     B:-Hornblende, Mica and Olivine
     C:-Quartz, Feldspar and Mica
     D:-Serpantine and Calcite
     Correct Answer:- Option-C
Question54:-The stone that is also called "Blue metal"
     A:-Shale
     B:-Basalt
    C:-Nite
    D:-Slate
     Correct Answer:- Option-B
Question55:-Chips of stone used for filling the interstices in stone masonry.
    A:-Spalls
     B:-Bats
     C:-Quoins
     D:-Closer
     Correct Answer:- Option-A
Question56:-In brick masonry, the vertical joints are broken by using
    A:-Quoin
     B:-Stretcher
     C:-Header
     D:-Closer
     Correct Answer:- Option-D
Question57:-The sloped upward edged mortar joint in brick masonry.
    A:-Raked Joint
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B:-Flush Joint
     C:-Struck Joint
     D:-Weathered Joint
     Correct Answer:- Option-C
Question58:-The recess made inside the door frame to receive the door shutter.
    A:-Horn
    B:-Rebate
     C:-Jamb
     D:-Sill
     Correct Answer:- Option-B
Question59:-The wedge shaped stone used in constructing an arch.
     A:-Voussoir
     B:-Extrados
     C:-Abutment
     D:-Impost
     Correct Answer: - Option-A
Question60:-The space between the roof trusses.
    A:-Purlin
     B:-Board
     C:-Bay
     D:-Ridge
     Correct Answer:- Option-C
Ouestion61:-Loudness of sound is measured in
    A:-Watt
     B:-Joules
    C:-Pascal
     D:-Decibels
     Correct Answer:- Option-D
Question62:-The gradient of the ramp for wheelchair usage
     A:-1:10
     B:-1:12
    C:-1:15
     D:-1:20
     Correct Answer:- Option-B
Question63:-The minimum height of handrail of a fire escape staircase is
    A:-80 cm
     B:-90 cm
    C:-100 cm
     D:-120 cm
     Correct Answer:- Option-C
Question64:-The water distribution system which is suitable for traditional towns and cities of India.
    A:-Tree System
     B:-Radial System
     C:-Grid Iron System
     D:-Ring System
     Correct Answer: - Option-A
Question65:-A graphical method of survey in which the field observations and plotting are done simultaneously.
     A:-Compass Survey
     B:-Chain Survey
     C:-Theodolite Survey
     D:-Plane Table Survey
     Correct Answer:- Option-D
Question66:-When the reading of Globe thermometer is higher than the dry bulb temperature it is called
     A:-Effective Temperature
     B:-Corrected Effective Temperature
     C:-Radiant Temperature
     D:-Heat gain
     Correct Answer:- Option-B
Question67:-The area on earth where the northerly and southerly winds meet is called
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A:-Intra Tropical Convergence Zone
     B:-Coriolis Force
     C:-Slippage
     D:-Inter Tropical Convergence Zone
     Correct Answer:- Option-D
Question68:-The relationship between DBT, WBT, Absolute Humidity and Relative Humidity and of vapour pressure is shown
     A:-Anemograph
     B:-Psychometric Chart
     C:-Climate Graph
     D:-Bio-climatic Chart
     Correct Answer:- Option-B
Question69:-Which of these city is located not in the warm-humid climate zone?
    A:-Jakarta
     B:-Singapore
     C:-Phoenix
     D:-Lagos
     Correct Answer:- Option-C
Question70:-The phenomenon of decrease of temperature with the increase of height is referred to as
    A:-Temperature Diversion
     B:-Temperature Inversion
     C:-Temperature Correction
     D:-Temperature Convergence
     Correct Answer:- Option-B
Question71:-Concentrated and accelerating flow of a cold mass of air is called
     A:-Katabatic Wind
     B:-Easterlies
     C:-Westerlies
     D:-Doldrums
     Correct Answer: - Option-A
Question72:-Open space in Greek cities that were used as market places.
     A:-Forum
     B:-Square
     C:-Plaza
     D:-Agora
     Correct Answer:- Option-D
Question73:-The religious precinct of Mesopotamian cities.
     A:-Ziggurat
     B:-Temenos
     C:-Tells
     D:-Babylon
     Correct Answer:- Option-B
Question74:-The Roman streets that allowed the passage of only pedestrians.
    A:-Itinera
     B:-Viae
     C:-Actus
     D:-Domus
     Correct Answer: - Option-A
Question 75:- The neighbourhood unit envisaged by Clarence Stein locates the primary school within the walking radius of
     A:-0.5 km
     B:-0.6 km
    C:-0.8 km
     D:-0.9 km
     Correct Answer:- Option-C
Question76:-In KMBR, the mercantile/Commercial buildings are classified in
    A:-Group C
     B:-Group D
     C:-Group E
     D:-Group F
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Correct Answer:- Option-D
Question77:-The great bath is located in ancient cities of
    A:-Egypt
     B:-Mesopotamia
     C:-Greece
     D:-Indus Valley
     Correct Answer:- Option-D
Question78:-The apsidal ended Buddhist prayer hall.
     A:-Chaithya
    B:-Vihara
    C:-Stupa
     D:-Pagoda
     Correct Answer: - Option-A
Question79:-The entry gateways to Dravidian temples are called
     A:-Vimana
     B:-Prakaram
    C:-Gopuram
     D:-Sopanam
    Correct Answer:- Option-C
Question80:-The entry gateway of Egyptian Temples
    A:-Horus
    B:-Pylon
     C:-Min
     D:-Opet
    Correct Answer:- Option-B
Question81:-The Greek order with volute shaped capital
    A:-Doric
    B:-Ionic
     C:-Corinthian
     D:-Composite
     Correct Answer:- Option-B
Question82:-What is the characteristic feature of Gothic Architecture?
    A:-Flying Buttress
     B:-Ribbed Vault
     C:-Pointed Arch
     D:-All of the above
     Correct Answer:- Option-D
Question83:-This building in Fatehpur Sikri is built entirely of marble
    A:-Buland Darwaza
     B:-Diwan-i-khas
     C:-Tomb of Salim Chisti
     D:-Diwan-i-am
     Correct Answer:- Option-C
Question84:-The architect who propagated the idea form follows function
    A:-Le Corbusier
     B:-Louis Kahn
     C:-Alvar Alto
     D:-Marcel Bruer
     Correct Answer:- Option-B
Question85:-The extra time that activities get in network analysis is called
    A:-Dummy
     B:-Forward
     C:-Crash
     D:-Float
     Correct Answer:- Option-D
Question86:-The Sydney Opera House in Australia was designed by the architect
     A:-Norman Foster
     B:-Jon Utzon
     C:-Richard Rogers
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D:-Peter Fisenman
     Correct Answer:- Option-B
Question87:-The rat trap bond in brickwork was popularised by the architect
     A:-Laurie Baker
     B:-Achyut Kanvinde
     C:-Charles Correa
     D:-B. V. Doshi
     Correct Answer: - Option-A
Question88:-The outlet of the water drain from the sanctum of Kerala temple is called
    A:-Adisthanam
     B:-Sopanam
     C:-Pranala
     D:-Stambham
     Correct Answer:- Option-C
Question89:-The common name of the shrub Codiaeum Variegatum
     A:-Croton
     B:-Copper Pod
    C:-Shoe Flower
     D:-Rush Foil
     Correct Answer: - Option-A
Question 90:- A landscaping method developed especially for arid and semi arid climate that utilizes water conserving
techniques.
    A:-Zooscape
     B:-Heterotrophic
    C:-Xeriscape
     D:-Aeration
    Correct Answer:- Option-C
Question91:-The national tree of India
    A:-Banyan
     B:-Neem
     C:-Mango
     D:-Tamarind
     Correct Answer:- Option-A
Question92:-A technique of horticulture where by tissues of plants are joined so as to continue their growth together
    A:-Budding
    B:-Grafting
     C:-Layering
     D:-Separation
     Correct Answer:- Option-B
Question93:-A layer of material applied to the surface of soil to conserve soil moisture
     A:-Pulp
     B:-Sap
    C:-Graft
     D:-Mulch
     Correct Answer:- Option-D
Question94:-In ergonomics, the zone in which the employees have fewer injuries while doing work
     A:-Neutral Zone
     B:-Reach Zone
     C:-Enhanced Zone
     D:-Power Zone
    Correct Answer:- Option-D
Question95:-Which among these is not a warm colour?
    A:-Purple
     B:-Red
     C:-Yellow
     D:-Orange
     Correct Answer: - Option-A
Question96:-The lighting provided for overall illumination of an area
     A:-Accent Lighting
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B:-Ambient Lighting

C:-Task Lighting

D:-Spot Lighting

Correct Answer:- Option-B

Question 97:- In the application for building permit, the site plan should be drawn to a scale of

A:-1:200 B:-1:400 C:-1:500 D:-1:600

Correct Answer:- Option-B

Question98:-In perspective view, the point at which receding parallel lines appear to converge is called

A:-Horizon Point

B:-Vanishing Point

C:-Base Point

D:-Converge Point

Correct Answer:- Option-C

Question99:-The area at any floor covered by roof other than cornice or weather shade

A:-Built up area

B:-Plinth area

C:-Carpet area

D:-Coverage

Correct Answer:- Option-A

Question 100:- The clear vertical distance measured from the finished floor surface to the finished ceiling surface

A:-Effective Length

B:-Clear span

C:-Head Room

D:-Open space

Correct Answer:- Option-C