PROVISIONAL ANSWER KEY

Question Paper Code:	77/2017/OL
Category Code:	466/2016
Exam:	Junior Instructor(Architectural Assistant) (SR for SC/ST)
Medium of Question:	English
Date of Test	16-09-2017
Department	Industrial Training Department
Alphacode	A

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 'Jnanpith 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

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

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

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

Question31:-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

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

B:-Sills

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

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

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 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

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

A:-4

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

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:-$4.5 kN/(m^2)$
    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:-Sq 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 × 521
    B:-594 × 841
    C:-520 × 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

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

Question84:-_____ is the command used in convert polyline to line.
    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

D:-Shrinkage

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

Question92:-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:-$(1750 \text{ kg})/(m^{3})$

C:-$(1250 \text{ kg})/(m^{3})$

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

Question96:-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

Question97:-The maximum bending moment of a simply supported beam of span l and carrying a point load W at the centre of the beam is

A:-Wl/4

B:-Wl/2

C:-Wl

D:-`(Wl^(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