FINAL ANSWER KEY

39/2016/OL

Lecturer in Printing Technology

415/2014

Question Paper Code:

Category Code:

Exam:

Medium of Question: English Date of Test 31-03-2016 Alphacode Question1:-Which State Government's initiative of planting 10 lakh saplings in a span of 8 hours has entered the Guinness Book of World Records? A:-Uttar Pradesh B:-Rajasthan C:-Madhya Pradesh D:-Jharkand Correct Answer: - Option-A Question2:-International Day for the Elimination of Violence against Women was observed on A:-28 November B:-25 November C:-25 December D:-28 December Correct Answer:- Option-B Question3:-Who wrote the book 'What Happened to Netaji'? A:-Anuj Khar B:-Aravind Adiga C:-Soni Sohal D:-Gangaram Correct Answer:- Option-A Question4:-Which movie bagged the Golden Crow Pheasant Award of 2015? A:-Cinemawallah B:-The Tribe C:-Ottal D:-Refujiado Correct Answer:- Option-C Question5:-'Do Not Evil' is the tagline of _____ A:-Opera B:-Bing C:-Yahoo D:-Google Correct Answer:- Option-D Question6:-Who introduced Oral Polio Vaccine? A:-Albert Sabin B:-JE Salk C:-Joseph Lister D:-Alexander Fleming Correct Answer: - Option-A Question7:-Which amendment if known as 'Mini Constitution'? A:-93rd Amendment B:-42nd Amendment C:-43rd Amendment D:-44th Amendment Correct Answer:- Option-B Question8:-Kerala network for organ sharing by Health Department is known as _____ A:-Amrithavahini B:-Karunyadayini C:-Dharmavahini D:-Mrithasanjeevani Correct Answer:- Option-D Question9:-In which year Indian Parliament Food Security Act?

```
A:-2011
     B:-2012
     C:-2013
     D:-2014
     Correct Answer:- Option-C
Question10:-The head quarters of Right to Information Act is
     A:-Vidya Sadan
     B:-Vikas Bhavan
     C:-August Kranti Bhavan
     D:-Mukti Sadan
     Correct Answer:- Option-C
Question11:-The primary function of a surge tank is to
     A:-Store excess water from tail race
     B:-Increase power output from the turbine
     C:-Act as container for surge arrester
     D:-Prevent pressure wave due to water hammer in penstock
     Correct Answer:- Option-D
Question12:-A universal joint allow the propeller shaft to
    A:-bend sideways
     B:-change length
     C:-transfer torque at an angle
     D:-change inclination
     Correct Answer:- Option-C
Question13:-The function of an economizer in a steam power plant is to
     A:-increase the temperature of supply air
     B:-increase the temperature of feed water
     C:-condense the exhaust steam from the turbine
     D:-preheat the fuel
     Correct Answer:- Option-B
Question14:-The compression ignition engines are governed by
     A:-Hit and miss governing
     B:-Quantity governing
     C:-Quality governing
     D:-Combination of (2) and (3)
     Correct Answer:- Option-C
Question15:-The speed ratio between crankshaft and camshaft is
    A:-2:1
    B:-4:1
     C:-1:2
     D:-1:4
     Correct Answer: - Option-A
Question16:-The inverse of `[[2,5], [1,3]]` is
    A:-`[[3,-1],[-5,2]]`
     B:-`[[3,-5],[-1,2]]`
     C:-`[[-3,1],[5,-2]]`
     D:-`[[3,1],[5,2]]`
     Correct Answer:- Option-B
Question17:-If `A=[[12,17,23],[3,6,9],[12,24,36]]`, then `det A` is
    A:-74
     B:--74
     C:-\(1)/(74)\
     D:-0
     Correct Answer:- Option-D
Question18:-\`sum (r=0)\^n nC r =.....\`
    A:-1
     B:-0
     C:-`2^(n)`
     D:-`n^(2)`
     Correct Answer:- Option-C
```

```
Question19:-sin'(180 + theta) = .....'
     A:-sin`theta`
     B:--sin`theta`
     C:-cos`theta`
     D:--cos`theta`
     Correct Answer:- Option-B
Question 20:- The equation of any line perpendicular to Ax + By + C = 0 is
     A:-`Bx - Ay + K = 0`
     B:-^Ax - By + K = 0^
     C:-`Bx + Ay + K = 0`
     D:-^Ax + By + K = 0^
     Correct Answer: - Option-A
Question21:- Lt (x - (pi)/(4)) (log tan x)/(((pi)/(4) - x)) = .....
     A:-0
     B:-`(1)/(2)`
     C:--2
     D:-\'-(1)/(2)\`
     Correct Answer:- Option-C
Question22:-Find \dot(dy)/(dx) if \dot y = \operatorname{sqrt}(f(x) + \operatorname{sqrt}(f(x) + \operatorname{sqrt}(f(x) + \dots)))
     A:-(f'(x))/(2y-1)
     B:-`(2y-1)/(f'(x))`
     C:-(f'(x))/(2y+1)
     D:-(2y+1)/(f'(x))
     Correct Answer:- Option-A
Question23:-\int_-pi\Pi x^{(3)} cos xdx = .....
     A:-`2pi`
     B:-\-(pi)/(2)
     C:-`+(pi)/(2)`
     D:-0
     Correct Answer:- Option-D
Question24:-\`int (dx)/(sqrt(a^2-x^2)) = .....
     A:-\sin^-1((x)/(a)) + C
     B:-^ccos^-1 ((x)/(a)) + C^c
     C:-\sin^-1 ((a)/(x)) + C
     D:-^ccos^-1 ((a)/(x)) + C^+
     Correct Answer:- Option-A
Question 25: Integrating factor for the differential equation (dy)/(dx) + (3y)/(x) = (1)/(x^2) is
     A:-`y^3`
     B:-`e^{y^3}`
     C:-`x^3`
     D:-\e^{x^3}\
     Correct Answer:- Option-C
Question26:-The aggregate is called fine aggregate if it is completely retained on
     A:-0.15 mm sieve
     B:-0.16 mm sieve
     C:-0.17 mm sieve
     D:-0.18 mm sieve
     Correct Answer:-Question Cancelled
Question27:-The minimum depth for all foundations below the natural ground level is
     A:-500 mm
     B:-1200 mm
     C:-250 mm
     D:-100 mm
     Correct Answer: - Option-A
Question28:-A projected stone in masonry wall provided to joist or truss is known as
     A:-cornice
     B:-corbel
     C:-coping
     D:-cramp
```

Correct Answer:- Option-B Question29:-The sag correction for chain line will be when `W` is the weight of the chain, `L` is the span and `P` is the tension or pull A:-`W^2L^2` / `24P^2` B:-`W^2L` / `24P` C:-`W^2L` /`24P^2` D:-`W^2L^2` /`24P` Correct Answer:- Option-C Question30:-Natural error in levelling is caused due to A:-Wind vibration B:-Atmospheric refraction C:-Temperature variation D:-All the above Correct Answer:- Option-D Question31:-Find the time taken for a sinusoidal alternating current of maximum value 20A to reach 15A for the first time, after being instantaneously zero, the supply frequency being 40 Hz A:-2.35 ms B:-3.37 ms C:-4.44 ms D:-1.23 ms Correct Answer:- Option-B Question 32:- The voltage across a 20 μ F capacitor is given by $V c=10.75-1.5e^{-1000t}+0.75e^{-2000t}$. What is the current through the capacitance. A:-\0.03(e^{-1000 t}-e^{-2000 t})\ $B:-^0.3(e^{-1000t}-e^{-2000t})$ $C:-3(e^{-1000t}-e^{-2000t})$ D:- $^0.003(e^{-1000t}-e^{-2000t})$ Correct Answer:- Option-A Question33:-Two coils having equal resistance but different inductances are connected in series. The time constant of the series combination is A:-Sum of the time constant of individual coils B:-Average of the time constant of individual coils C:-Geometrical mean of the time constant of individual coils D:-Product of the time constant of individual coils Correct Answer:- Option-B Question34:-A network contains linear resistor and ideal voltage sources. If value of all the resistors are doubled, then voltage across each resistor is A:-Halved B:-Doubled C:-Not changed D:-Increase 4 times Correct Answer:- Option-C Question 35: The current i(t) through a 10 ohm resistance in series with an inductance is given by i(t) = $3 + 4 \sin(100t +$ 45°) + 4 sin (300t + 60°)A. The rms value of current and power dissipated in the circuit are A:-`sqrt(41)` A, 410 W respectively B:-`sqrt(35)`A, 380 W respectively C:-5 A, 250 W respectively D:-11 A, 1210 W respectively Correct Answer: - Option-C Question36:-In full wave rectification, if the input frequency is 50 Hz, then the output frequency will be A:-50 Hz B:-75 Hz C:-100 Hz D:-200 Hz Correct Answer:- Option-C

Question 37:-A fully charged 12 V, 100 Ah battery is connected to a 1.2 Ω load. The expected time for which the battery can

supply power to load is A:-10 hours B:-12 hours C:-1.2 hours

Correct Answer: - Option-A Question38:-A microcontroller normally has which of the following devices on chip? A:-RAM B:-ROM C:-I/O ports D:-All of the above Correct Answer:- Option-D Question39:-GaAs LED's emit radiation in the A:-Ultraviolet region B:-Blue-green region of visible region C:-Orange-red range of visible region D:-Infra red region Correct Answer:- Option-D Question40:-The function of Network and Switching Subsystem (NSS) in GSM is to A:-Provide and manage radio transmission path between the mobile stations and the Mobile Switching Centre (MSC) B:-Manage the switching functions of the system and allows the Mobile Switching Centre (MSC) to communicate with other networks C:-Supports the operation and maintenance of GSM D:-Manage the radio interface between the mobile station and all other subsystems of GSM Correct Answer:- Option-B Question41:-The water manes are created using _____ A:-Dancing roll B:-Dampening roll C:-Dandy roll D:-Distributed roll Correct Answer:- Option-C Question42:-The splitting property of an ink film is called A:-Viscosity B:-Thixotrophy C:-Ink fly D:-Tack Correct Answer:- Option-D Question43:-Blanket hardness is measured using _____ A:-Shore hardness meter B:-Gauge hardness tester C:-Feeler gauge tester D:-Screw gauge Correct Answer: - Option-A Question44:-Kaizen is known as A:-the continuous improvement process B:-production tracking C:-plan do check D:-quality assurance Correct Answer: - Option-A Question45:-The term hydrophilic means A:-ability to printing ink to dissolved during printing process B:-characteristic of printing solutions to dissolve in special chemicals under high temperatures C:-having a tendency to mix with, dissolve in, or be wetted by water D:-measurement of level of water content in printing inks Correct Answer:- Option-C Question46:-What is the term given to the trouble-free interaction between the ink and the press, the paper and the press and finally, the ink and paper? A:-Smooth running B:-High performance job C:-Trouble shooting D:-Runnability Correct Answer:- Option-D

Question47:-Which of the following is FALSE about tack?

D:-144 hours

```
B:-Tack determines whether the ink will pick the surface of the paper
     C:-lnk tack that is higher than the strength of the paper surface is highly recommended
     D:-Tack affects whether ink will trap properly in multi-color printing
     Correct Answer:- Option-C
Question48:-IGT printability tester is to test
    A:-Ink fly
    B:-Ink mist
    C:-Hickins
     D:-Pick resistance
    Correct Answer:- Option-D
Question49:-Copper is good affinity to
    A:-Water
    B:-Ink
     C:-Buffer solution
     D:-Phosphoric acid
     Correct Answer:- Option-B
Question50:-Resistance to flow
    A:-Trap
    B:-Tack
     C:-Viscosity
     D:-Scum
     Correct Answer:- Option-C
Question51:-Brightness of paper substrates are measured at _____ in brightness tester.
    A:-90°
    B:-180°
    C:-45°
    D:-75°
    Correct Answer:- Option-A
Question52:-The primary fibers are _____ pulp.
    A:-Mechanical
    B:-Recycled
    C:-Reuse
    D:-Grained
     Correct Answer: - Option-A
Question53:-San Serif is called
    A:-with Serif
    B:-Counter
     C:-Stem
     D:-Without serif
     Correct Answer:- Option-D
Question54:-Line spacing is also referred as
    A:-Ligatures
    B:-Kerning
    C:-Leading
    D:-House style
    Correct Answer:- Option-C
Question55:-Height of the type is
    A:-0.791"
    B:-0.918"
    C:-0.189"
    D:-0.819"
     Correct Answer:- Option-B
Question56:-Frequency modulate screening is also referred as _____ screening.
    A:-Stochastic
     B:-Pattern
     C:-Hybrid
     D:-Autotypical
     Correct Answer: - Option-A
```

A:-It is the stickiness of an ink, or the force required to split an ink film between two surfaces

```
Question57:-The difference in highlight and shadow area is called
    A:-Grayness
     B:-Lightness
    C:-Contrast
     D:-Hue
     Correct Answer:- Option-C
Question58:-Resolution is referred as
     A:-dot per inch
     B:-pixel per inch
    C:-lines per inch
     D:-all of the above
     Correct Answer:- Option-D
Question59:-The reverting a screen into a continuous - tone file is called as
    A:-copy dot
     B:-mixed mode
    C:-descreening
     D:-digitizing
     Correct Answer:- Option-C
Question60:-Pixels are called
    A:-circle dots
     B:-elliptical dots
     C:-round dots
     D:-digital dots
     Correct Answer:- Option-D
Question61:-PDF files are interpreted by _____
    A:-PPD
    B:-DCS
    C:-PS
     D:-RIP
     Correct Answer:- Option-D
Question62:-CMYK colour ink is termed as
    A:-spot colour
     B:-process colour
    C:-fake colour
     D:-pentagon colour
     Correct Answer:- Option-B
Question63:-Purity of colour is called
    A:-Saturation
    B:-Hue
     C:-Lightness
     D:-Grayness
    Correct Answer:- Option-A
Question64:-6 pica is equal to
    A:-1/2 inch
    B:-1 inch
    C:-1½ inch
    D:-2 inch
     Correct Answer:- Option-B
Question65:-Which colour space is perceptually uniform?
    A:-RGB
    B:-CMYK
    C:-Yxy
     D:-CIE Lab
     Correct Answer:- Option-D
Question66:-If the angle of incident and angle of reflection is same then it is called as
     A:-Specular reflection
     B:-Diffused reflection
     C:-Refraction
     D:-Transparent
```

```
Correct Answer: - Option-A
Question 67:- If the tristumiluse value X = 10 Y = 12 Z = 8 find the x and y co-ordinates of "Y {xy}" colour space
     A:-0.3, 0.4
     B:-0.4, 0.3
    C:-0.5, 0.3
     D:-0.3, 0.5
     Correct Answer: - Option-A
Question68:-Ideal black body radiator is also referred as _____ radiator
     A:-Specular
     B:-Planckian
     C:-Refraction
     D:-All the above
     Correct Answer:- Option-B
Question69:-The difference between numerical value of color are indicated as
    A:-Δ` "E"`
    B:-δ `"E"`
     C:-σ` "E"`
     D:-`"E"`
    Correct Answer:- Option-A
Question70:-Which rendering intent is suitable for photographic image?
     A:-Saturation intent
    B:-Absolute colorimetric intent
     C:-Relative colorimetric
     D:-Perceptual intent
     Correct Answer:- Option-D
Question71:-The colour exhibit special radiation effect depending on the illumination is called
    A:-Metamerism
     B:-Fulroscene
     C:-Opacity
     D:-Chromaticity
     Correct Answer: - Option-A
Question72:-Identify the incorrect pre-press operation
    A:-Typesetting
     B:-Proofing
     C:-Imposition
     D:-Embossing
     Correct Answer:- Option-D
Question73:-Identify the wrong statement about PDFs
    A:-It is a cross platform standard
     B:-PDFs are device independent
     C:-PDFs supports security
     D:-PDFs are portable
     Correct Answer:-Question Cancelled
Question74:-Which of the following is not a common pre-press problem?
     A:-File defined with incorrect colour
     B:-Scan supplied in wrong file format
     C:-Missing graphics
     D:-Ghosting
     Correct Answer:- Option-D
Question75:-Spot color printing is normally done by
     A:-4-colour printing
     B:-single colour printing
     C:-only by VDP
     D:-multi-colour printing
     Correct Answer:-Question Cancelled
Question 76:-In what form do imaging source like digital cameras provide images?
     A:-Colour PDFs
     B:-RGB mode
```

C:-CMYK mode

D:-Gray scale Correct Answer:- Option-B Question77:-Why there is more number of distributor ink rolls in offset printing process? A:-Ink milling B:-Even distribution C:-Dwell time setting D:-Ink drying Correct Answer: - Option-A Question78:-Indirect laser engraving process uses ______ on the copper cylinders. A:-Light sensitive black layer B:-Emulsion layer C:-Carbon layer D:-Electrostatic layer Correct Answer: - Option-A Question79:-Electro formed screen are made from Δ·-tin B:-nickel C:-antimony D:-aluminium Correct Answer:- Option-B Question80:-Funning the pile to reduce friction between the sheets are known as A:-Loading B:-Trimming C:-Transporting D:-Jogging Correct Answer:- Option-D Question81:-In cutting principle the knife work without counteracting tool A:-knife cut B:-sheet cut C:-burst cut D:-flat cut Correct Answer:- Option-C Question82:-Carousel screen printing machines are based upon A:-cylinder bed principle B:-rotational principle C:-oblique motion D:-stationery bed Correct Answer:- Option-B Question83:-What problem would be encountered when the gravure cylinder is not perfectly round within a cross section? A:-static imbalance B:-dynamic imbalance C:-non static imbalance D:-static balance Correct Answer:- Option-A Question84:-Which of these part is used for automatically positioning a new web to the tail end of the web being printed? A:-Splicer B:-Turner bar C:-Web bar D:-Folding bar Correct Answer:- Option-A Question85:-When the contact angle (θ)<90° is the measure of the wetting of solid by a liquid then it represents A:-Poor wetting B:-Very poor wetting C:-Moderate wetting D:-Good wetting Correct Answer:- Option-D Question86:-Which of these process are commonly used for destination of water in press? A:-Reverse osmosis

B:-Distillation

C:-Deionization
D:-Osmosis process
Correct Answer:- Option-A
Question87:-Which of the following is NOT a non convention dampening?
A:-Brush dampening
B:-Ductor roll
C:-Misting dampening
D:-Dulherand dampening
Correct Answer:-Question Cancelled
Question88:-Oscillator roller is otherwise termed as
A:-Nip roller
B:-Transfer roller
C:-Vibrator roller
D:-Forme roller
Correct Answer:- Option-C
Question89:-Assembly process with the transition into a different processing dimension is called as
A:-Collating
B:-Gathering
C:-Creasing
D:-Folding
Correct Answer:-Question Cancelled
Question90:-Spine routing method is used in
A:-Calligo binding
B:-Perfect binding
C:-Thermal binding
D:-Combing binding
Correct Answer:- Option-B
Question91:-The measure of force required to bend a paper through a specific angle
A:-Tensile strength
B:-Stiffness
C:-Burst strength
D:-Folding endurance
Correct Answer:- Option-B
Question92:-Checking the sequences of pages before a book is bounded is termed as
A:-Gathering
B:-Collating
C:-Inserting
D:-Stitching
Correct Answer:- Option-B
Question93:-The use of lead and chrome based pigment is restricted for
A:-Cosmetic packaging
B:-Industrial packaging
C:-Stationery packaging
D:-Food packaging
Correct Answer:- Option-D
Question94:-Serval folds made parallel to each other is termed as
A:-Fan fold
B:-Cross fold
C:-Accordion fold
D:-Zig-zag fold
Correct Answer:- Option-C
Question95:-Corrugated boxes uses liner board.
A:-Art sheet
B:-Kraft
C:-Maplitho
D:-All of the above
Correct Answer:- Option-B
Question96:-Which of the following are coming under anti-counterfeiting packaging?
A:-Hologram

B:-Electronic tag

C:-RFID chip

D:-All the above

Correct Answer:- Option-D

Question 97:- The package system that is designed to control the growth of microorganisms

A:-Active packaging

B:-Antimicrobial packaging

C:-Aerosal packaging

D:-Acrylic packaging

Correct Answer:- Option-B

Question98:-This measures the rigidity of flutes

A:-Burst strength test

B:-Flat crush test

C:-Tear test

D:-Tensile test

Correct Answer:- Option-B

Question99:-Clam shell is also called as

A:-Aerosol

B:-Blister

C:-Collapsible tube

D:-Carton

Correct Answer:- Option-B

Question100:-Which of the following are NOT coming in structural design of carton?

A:-End load

B:-Top load

C:-Display outer

D:-Collapsible

Correct Answer:- Option-C