PROVISIONAL ANSWER KEY

| | Question Paper Code: Category Code: | 39/2016/OL 415/2014 | |
|---|--|---|--|
| | Exam: Medium of Question: | Lecturer in Printing Technology English | |
| | Date of Test Alphacode | 31-03-2016 A | |
| A:-Uttar Pradesh | ent's initiative of planting 10 lakh sap | olings in a span of 8 hours has entered the Guinness Book of World Records? | |
| B:-Rajasthan C:-Madhya Pradesh | | | |
| D:-Jharkand Correct Answer:- Option-A | | | |
| Question2:-International Day for th A:-28 November | 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 \(^1\) A:-Anuj Khar | Vhat Happened to Netaji'? | | |
| B:-Aravind Adiga C:-Soni Sohal | | | |
| D:-Gangaram Correct Answer:- Option-A | | | |
| | the Golden Crow Pheasant Award of | £2015? | |
| B:-The Tribe C:-Ottal | | | |
| D:-Refujiado | | | |
| Correct Answer:- Option-C Question5:-'Do Not Evil' is the tag | line of | | |
| A:-Opera B:-Bing | | | |
| C:-Yahoo D:-Google | | | |
| Correct Answer:- Option-D Question6:-Who introduced Oral F | Polio Vaccine? | | |
| A:-Albert Sabin B:-JE Salk | | | |
| C:-Joseph Lister D:-Alexander Fleming | | | |
| Correct Answer:- Option-A Question7:-Which amendment if k | nown as 'Mini Constitution'? | | |
| A:-93rd Amendment B:-42nd Amendment | | | |
| C:-43rd Amendment D:-44th Amendment | | | |
| Correct Answer:- Option-B Question8:-Kerala network for org | an sharing by Health Department is | known as | |
| A:-Amrithavahini B:-Karunyadayini | | | |
| C:-Dharmavahini D:-Mrithasanjeevani | | | |
| Correct Answer:- Option-D Question9:-In which year Indian P | arliament Food Security Act? | | |
| A:-2011 B:-2012 | • | | |
| C:-2013 D:-2014 | | | |
| Correct Answer:- Option-C Question10:-The head quarters of | f Right to Information Act is | | |
| A:-Vidya Sadan B:-Vikas Bhavan | rugin to mornation rice to | _ | |
| C:-August Kranti Bhavan D:-Mukti Sadan | | | |
| Correct Answer:- Option-C Question11:-The primary function | of a cume tank is to | | |
| A:-Store excess water from to B:-Increase power output fro | ail race | | |
| C:-Act as container for surge | | | |
| Correct Answer:- Option-D Question12:-A universal joint allov | · | | |
| A:-bend sideways B:-change length | ville propeller shall to | | |
| C:-transfer torque at an angle D:-change inclination | Э | | |
| Correct Answer:- Option-C | conomizer in a steam power plant is | | |
| A:-increase the temperature B:-increase the temperature | of supply air | | |
| C:-condense the exhaust ste D:-preheat the fuel | | | |
| Correct Answer:- Option-B Question14:-The compression ign | ition angines are governed by | | |
| A:-Hit and miss governing B:-Quantity governing | and of engines are governed by | | |
| C:-Quality governing D:-Combination of (2) and (3) | | | |
| Correct Answer:- Option-C | | | |
| Question15:-The speed ratio betw A:-2:1 B:-4:1 | een cranksnan and camsnan is | | |
| C:-1 : 2 D:-1 : 4 | | | |
| Correct Answer:- Option-A | | | |
| Question16:-The inverse of $\begin{bmatrix} 2 & 5 \\ 1 & 3 \end{bmatrix}$ | is | | |
| $A:\begin{bmatrix} 3 & -1 \\ -5 & 2 \end{bmatrix}$ | | | |
| $B:\begin{bmatrix} 3 & -5 \\ -1 & 2 \end{bmatrix}$ | | | |
| $\begin{bmatrix} -1 & 2 \\ 3 & 1 \\ 5 & -2 \end{bmatrix}$ | | | |
| [5 -2] D:-[3 1] [5 2] | | | |
| Correct Answer:- Option-B | | | |
| Question17:-If $A = \begin{bmatrix} 12 & 17 & 23 \\ 3 & 6 & 9 \\ 12 & 24 & 36 \end{bmatrix}$, then $\det A$ is | | | |
| | | | |
| A:-74 B:74 | | | |
| C:-1/4 | | | |
| D:-0 | | | |

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Correct Answer:- Option-D
       B:-0
C:-2<sup>n</sup>
       D:-n<sup>2</sup>
       Correct Answer:- Option-C
Question19:-sin(180 + \theta) =
       B:--sinθ
       C:-cosθ
D:--cosθ
        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 \to \frac{\pi}{4}} \frac{\log \tan x}{\left(\frac{\pi}{4} - x\right)}
       B:-1/2
       C:--2
       Correct Answer:- Option-C
Question 22:- Find \frac{dy}{dx} if y = \sqrt{f(x) + \sqrt{f(x) + \sqrt{f(x) + \dots}}}
       A = \frac{f'(x)}{2y - 1}
B = \frac{2y - 1}{f'(x)}
       C:=\frac{f'(x)}{2y+1}
D:=\frac{2y+1}{f'(x)}
       Correct Answer:- Option-A
Question23:- \int_{-\pi}^{\Pi} x^3 \cos x dx = .
       A:-2π
       B:-\frac{\pi}{2}
       Correct Answer:- Option-D
Question24:- \int \frac{dx}{\sqrt{a^2 - x^2}} =
       A:- \sin^{-1}\left(\frac{x}{a}\right) + C
       B:-\cos^{-1}\left(\frac{x}{a}\right)+C
       C:=\sin^{-1}\left(\frac{a}{r}\right)+C
       D:-\cos^{-1}\left(\frac{a}{x}\right)+C
       Correct Answer:- Option-A
Question25:-Integrating factor for the differential equation \frac{dy}{dx} + \frac{3y}{x} = \frac{1}{x^2} is
       A:-y<sup>3</sup>
       B:-e<sup>y<sup>3</sup></sup>
C:-x<sup>3</sup>
       D:-ex3
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:- Option-A
Question27:-The minimum depth for all foundations below the natural ground level is
        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
       \mathsf{B}\!:\!\!-W^2L\,/\,24P
       C:-W<sup>2</sup>L/24P<sup>2</sup>
       D:-W<sup>2</sup>L<sup>2</sup> /24P
Correct Answer:- Option-C
Question30:-Natural error in levelling is caused due to
A:-Wind vibration
B:-Almospheric 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
Question32-The voltage across a 20 \muF 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^{-1000t} - e^{-2000t})
       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 colls 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
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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
 C: Not changed
D: Increase 4 times
Correct Answer: Option-C
Question35:-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:-\\( 41 A. 410 W respectively
        B:-√35A, 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
Question37:-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
        D:-144 hours
        Correct Answer:- Option-A
Question38-A microcontroller normally has which of the following devices on chip?

A:-RAM

B:-ROM
        C:-VO ports
D:-All of the above
Correct Answer:- Option-D
Question39:-GaAs LED's emit radiation in the
        A:-Ultraviolet region
       A:-Outaviolet region

C:-Orange-red range of visible region

D:-Infra red region

Correct Answer:- Option-D
Question-40:-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
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
        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
       Strones: The term myorignmic means
Arability 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: Or the control of princing in a Correct Answer: Option: 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
D'-Runnability
Correct Answer- Option-D
Question47:-Which of the following is FALSE about tack?
A-It is the stickiness of an ink, or the force required to split an ink film between two surfaces
B-Tack determines whether the ink will job; the surface of the paper
C:-Ink 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-A
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 _
       A:-Mechanical
B:-Recycled
C:-Reuse
       D:-Grained
       Correct Answer:- Option-A
Question53:-San Serif is called
A:-with Serif
       B:-Counter
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C:-Stem
D:-Without serif
Correct Answer:- Option-A
 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 _____
        A:-Stochastic
       B:-Pattern
C:-Hybrid
D:-Autotypical
        Correct Answer:- Option-A
 Question57:-The difference in highlight and shadow area is called
        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
        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
        B:-Hue
C:-Lightness
D:-Grayness
Correct Answer:- Option-A
 Question64:-6 pica is equal to
       B:-1 inch
C:-1½ inch
        D:-2 inch
 D.-C.ITICII

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
 Question67:-If the tristumiluse value X = 10 Y = 12 Z = 8 find the x and y co-ordinates of Y_{xy} colour space
        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
        C:-σE
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
        B:-Fulroscene
        C:-Opacity
 D:-Chromaticity
Correct Answer:- Option-B
Question72:-Identify the incorrect pre-press operation
        A:-Typesetting
A-Typesetting
B-Proofing
C-Imposition
D-Embossing
Correct Answer- Option-D
Question73-Mentify the wrong statement about PDFs
A-It is a cross platform standard
B-PDFs are device independent
C-PDFs supports security
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D:-PDFs are portable
Correct Answer:- Option-D
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
C:-only by VDP
D:-multi-colour printing
Cornect Answer:- Option-D
Question76:-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
Question?8-Indirect laser engraving process uses ______ on the copper cylinders A:-Light sensitive black layer
       B:-Emulsion layer
       C:-Carbon laver
D:-Electrostatic layer
Correct Answer:- Option-A
Question79:-Electro formed screen are made from
      A:-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
D-:Jogging
Correct Answer-- Option-D
Question81:-in cutting principle the knife work without counteracting tool
Ar-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 proble
A:-static imbalance
                                            uld be encountered when the gravure cylinder is not perfectly round within a cross section?
       B:-dynamic imbalance
       C:-non static imbalance
U:-non static impalance
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
       C:-Web bar
D:-Folding bar
       Correct Answer:- Option-A
 Question85:-When the contact angle (\theta)<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: Option-B
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
       R:-Gathering
       B:-Gathering
C:-Creasing
D:-Folding
Correct Answer:- Option-B
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
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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
Question97-The package system that is designed to control the growth of microorganisms
A-Active packaging
B-Antimicrobial packaging
C-Aerosal packaging
D-Acrylic packaging
C-Aerosal packaging
C-Rerisal packaging
C-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
Question98-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-B