## **FINAL ANSWER KEY**

Question Paper Code: 80/2016/OL Category Code: 072/2014

Exam: Vocational Teacher Printing Technology

Medium of Question: English
Date of Test 28-11-2016

Alphacode A

Question1:-Who made the statement "The Preamble of the Constitution is the horoscope of Indian Republic?

A:-Jawahar Lal Nehru

B:-K.M. Munshi

C:-Mahathma Gandhi

D:-Dr. Rajendra Prasad

Correct Answer:- Option-B

Question2:-In which year the Government of Kerala launched Kudumbasree?

A:-1998

B:-1996

C:-1999

D:-2000

Correct Answer:- Option-A

Question3:-'Atma Vidhya Sangham' was founded by

A:-Sree Narayana Guru

B:-Ayya Vaikundar

C:-Ayyankali

D:-Vagbhadananda

Correct Answer:- Option-D

Question4:-How many people signed the Ezhava Memorial?

A:-13216

B:-13238

C:-13176

D:-13111

Correct Answer:- Option-C

Question5:-Jathikummi was written by

A:-Pandit Karuppan

B:-Chattampi Swamikal

C:-Kumaranasan

D:-Mannathu Padmanabhan

Correct Answer:- Option-A

Question6:-Against which team, Sachin Tendulkkar played his last test match?

A:-Newzeland

B:-Australia

C:-West Indies

D:-Pakistan

Correct Answer:- Option-C

Question7:-Who was called 'Simhala Simham'?

A:-Velukutty Arayan

B:-C. Kesavan

C:-K.P. Vellon

D:-K. Kelappan

Correct Answer:- Option-B

Question8:-P.T. Sivakumar Sharma is associated with

A:-Santoor

B:-Sarod

C:-Sitar

D:-Shehanayi

Correct Answer: - Option-A

Question9:-Who raised the slogan "If we work, We should be got paid"?

A:-T.K. Madhavan

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B:-Vaikunda Swamikal
     C:-Dr. Ayyathan Gopalan
     D:-Dr. Palpu
     Correct Answer:- Option-B
Question10:-Gandhiji visited Sree. Narayana Guru in the year
     A:-1928
     B:-1927
     C:-1925
     D:-1929
     Correct Answer:- Option-C
Question11:-The quality of fluidity of the printing machine rollers and quick solidification of ink is termed as
     A:-flow
     B:-drying
     C:-thixotrophy
     D:-set-off
     Correct Answer:- Option-C
Question12:-Which of the following additive will improve the rub resistance of ink?
     A:-resin
     B:-wax
     C:-drier
     D:-extenders
     Correct Answer:- Option-B
Question13:-The colour appears to run, the fountain solution and dampening rollers become tinted - Bleeding is caused due
     A:-excessive driers
     B:-insufficient water at the plate
     C:-the pigment is hydrophilic
     D:-insufficient water at the plate
     Correct Answer:- Option-C
Question14:-Yellow is often printed above the magenta and cyan but if opaque yellow is used the order of yellow printing is
     A:-first colour
     B:-second colour
     C:-third colour
     D:-fourth colour
     Correct Answer:- Option-A
Question15:-The release of individual small fibers, particles from paper surfaces is termed as
     A:-Greasing
     B:-Fluffing
     C:-Strippring
     D:-Tinting
     Correct Answer:- Option-B
Question 16: The machine that prints both sides of the sheet in one pass through the press is
     A:-Common impression cylinder
     B:-Inline press
     C:-Narrow web press
     D:-Blanket to blanket press
     Correct Answer:- Option-D
Question17:-This device in the web offset machine is used to change the direction of the web.
     A:-roller
     B:-festoon
     C:-kicker
     D:-turner bar
     Correct Answer:- Option-D
Question 18:- The inks that are formulated to dry primarily by evaporation of solvent at high temperature
     A:-Quick set ink
     B:-Heat set ink
     C:-UV ink
     D:-All the above
     Correct Answer:- Option-B
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Question19:-17 `1/2`" × 23 `1/2`" sized paper is termed as A:-Crown B:-Royal C:-Demmy D:-Foolscape Correct Answer:- Option-C Question 20:- A condition of ink, when left in a container, thicken and form a light gel structure on the top layer A:-thixotrophy B:-rheology C:-newtonion D:-tinting Correct Answer: - Option-A Question21:-A set of colour printed proofs which compraises one print of each colour, and a print of the combination of subsequent colours as they are printed in sequence A:-digital proof B:-blue proof C:-progressive proof D:-soft proof Correct Answer:- Option-C Question22:-An instrument which measures the length and tack of an ink A:-viscometer B:-inkometer C:-densitometer D:-durometer Correct Answer:- Option-B Question23:-The type of blanket used for printing on high speed machine and substrates like board and coated stock A:-medium blanket B:-hard blanket C:-soft blanket D:-all the above Correct Answer:- Option-B Question24:-Which of the following comes under functional printing? A:-Hologram B:-News paper C:-QR coding D:-Flex banner Correct Answer:- Option-C Question25:-Which of the following comes under security printing? A:-hologram B:-RFID tags C:-dutone printing D:-metal printing Correct Answer: - Option-A Question 26:-Printing one side of the sheet, then turning the sheet over, retaining the same front and side-lay edges of the sheet and the same printing plate can be done by A:-Work and tumble B:-Work and twist C:-Work and turn D:-Full sheet work Correct Answer:- Option-C Question27:-Which of the following is not the cause of image dot gain during plate making process? A:-over exposure B:-incomplete plate development C:-poor vacuum frame contact D:-changing the position of the lamp during exposure Correct Answer:- Option-B Question28:-Which of the following is not a quality control aid? A:-star target B:-dot gain scale

C:-FOGRA strip D:-gripper mark Correct Answer:- Option-D Question29:-To facilitate the order of each signature into its correct sequence within the book which of the following is used A:-Gathering B:-Collating C:-Imposition D:-Sequencing Correct Answer:- Option-B Question30:-A solution applied to offset plate and dried to produce a hydrophilic film on the non-image area to prevent image area from spreading A:-fountain solution B:-water C:-gum arabic D:-addhesiver Correct Answer:- Option-C Question31:-Control of the reel obtained on the web offset machine by a retarding force is given by A:-brake B:-dancer roller C:-festoon D:-turner bars Correct Answer: - Option-A Question32:-CTP thermal plates are exposed by which of the following source? A:-Mercury light B:-Argon Ion C:-YAG laser D:-Visible diode Correct Answer:- Option-C Question33:-Which of the following type of original cannot be scanned by a drum scanner? A:-Transparency B:-Flexible original C:-Rigid original D:-Matt finished photograph Correct Answer:- Option-C Question34:-Which of the following cannot be included in PDF file format? A:-special keyword for search and index B:-interactive links C:-video clips D:-none of the above Correct Answer:- Option-D Question35:-A device or computer program that receives a description of the content of a page and converts to information that can output on paper/film/plates A:-digital printer B:-RIP C:-scanner D:-any programming language Correct Answer:- Option-B Question36:-Which of the following process comes under non-impact printing technology? A:-digital press B:-flexography C:-screen printing D:-gravare process Correct Answer:- Option-A Question37:-The most appropriate software used as a layout programme is A:-Photoshop B:-GIMP C:-Indesign D:-Flash

Correct Answer:- Option-C

Question38:-The visible light spectrum ranges from A:-1000 - 1400 nm B:-100 - 400 nm C:-700 - 1000 nm D:-400 - 700 nm Correct Answer:- Option-D Question 39: An ink specifically formulated to produce a desired hue and not designed to be mixed by superimposing A:-process colour B:-halftone C:-flat colour D:-key colour Correct Answer:- Option-C Question40:-The lightest area in a reproduction is A:-midtone B:-highlight C:-shadow D:-hue Correct Answer:- Option-B Question41:-Variable data printing can be achieved by A:-letter press B:-screen C:-gravure D:-digital printing Correct Answer:- Option-D Question42:-For cutting harder paper stock in a guillotine machine which of the following is the preferred knife angle? A:-16° B:-22° C:-10° D:-30° Correct Answer:- Option-B Question43:-When a sheet of paper is passed through two folder arranged at right angle and folding the sheet equally the resulting fold will be described as A:-4-page parallel B:-4-page right angle C:-8-page parallel D:-8-page right angle Correct Answer:- Option-D Question44:-When the adhesive flow into the structure of the adherent or around the surface irregularities for adhesion it is called A:-physical adhesion B:-specific adhesion C:-bonding D:-chemical adhesion Correct Answer: - Option-A Question45:-A mask of solid area to protect portion of a previously exposed plate is A:-print down mask B:-print out mask C:-layout mask D:-plate covering Correct Answer:- Option-C Question 46:- To increase the water retaining properties of the non-image area of the lithographic plate. Which of the following solution can be added? A:-Gum arabic **B:-Developer** C:-Desensitiser D:-ISO propyl alcohol Correct Answer:- Option-C Question47:-Sheets having solid and of printed labels from front to back are vulnerable to A:-trapping

B:-ink blocking

C:-wattling D:-permanent curl Correct Answer:- Option-C Question48:-If a light ray striking a substrate are reflected primarily as parallel rays-mirror like action is known as A:-specular reflection B:-transmission C:-reflection D:-diffraction Correct Answer: - Option-A Question49:-The perpendicular distance between two surfaces of a paper is A:-GSM B:-Caliper C:-Basis weight D:-Basis grammage Correct Answer:- Option-B Question50:-The surface tension of water can be reduced by A:-adding fountain solution B:-increasing the temperature C:-adding additives D:-increasing the water pressure Correct Answer: - Option-A Question51:-When pigment has the property of absorbing radiant energy of a given wavelength and then emitting this energy at a different wavelength is A:-Reflection B:-Gloss C:-Metamerism D:-Fluorescence Correct Answer:- Option-D Question52:-The subtractive transparent primary colour that transmit red and green but absorb blue light is A:-Cyan B:-Magenta C:-Yellow D:-Black Correct Answer:- Option-C Question53:-A computer driven algorithm that disperses halftone dot information in semi-random form A:-analog screening B:-stochastic screening C:-elliptical screen D:-square dot screen Correct Answer:- Option-B Question54:-To overcome the printing problem speckle (improper transfer of ink on rough paper) Gravure presses is employed with A:-electrostatically assisted ink B:-static electricity eliminator C:-paper calendering D:-inline paper calender Correct Answer: - Option-A Question55:-A cylinder making technique in gravure press employed for printing of short run jobs A:-Electronic engraving B:-Laser engraving C:-Computer to cylinder D:-Ballard process Correct Answer:- Option-D Question56:-The small groove present between the cylinder body and bearer in the offset machine is termed as A:-Cylinder gap B:-Gutter

C:-Cylinder body

Correct Answer: - Option-B

D:-Gear

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Question57:-Which of the following paper is the strongest?
     A:-newsprint
     B:-corrugated medium
     C:-bleached paper
     D:-kraft paper
     Correct Answer:- Option-D
Question58:-Material having random molecular arrangements is termed as
     A:-thermoset
     B:-amorphous
     C:-crystalline
     D:-polymers
     Correct Answer:- Option-B
Question59:-Software that stores lines and shapes rather than individual pixels is known as
     A:-raster graphics software
     B:-bitmap graphic software
     C:-vector graphic software
     D:-ripped image
     Correct Answer:- Option-C
Question60:-Many bitmapped images in a sequence is known as
     A:-IPEG animation
     B:-tweening
     C:-TIF animation
     D:-GIF animation
     Correct Answer:- Option-D
Question61:-Given a 2"x2" photograph and a 4"x4" layout space, what scale percentage is needed to fit the photograph?
    A:-200
     B:-150
     C:-100
     D:-50
     Correct Answer: - Option-A
Question62:-EOQ is
     A:-Economical size of order
     B:-Average stock to be maintained
     C:-Economical size of production quantity
     D:-Maximum stock to be fixed
     Correct Answer: - Option-A
Question63:-The watermark in a bond paper is created by which of the following part in paper making machine?
    A:-head box
     B:-wire
     C:-pressing unit
     D:-danddy roller
     Correct Answer:- Option-D
Question64:-If individual colour stations are placed horizontally one after other, the press is called
     A:-common impression cylinder
     B:-stack press
     C:-in-line press
     D:-web press
     Correct Answer:- Option-C
Question65:-Adhesive used in lamination process is
     A:-animal adhesive
     B:-vegetable adhesive
     C:-synthetic adhesive
     D:-natural adhesive
     Correct Answer:- Option-C
Question66:-Ink mainly used in flexographic process
     A:-liquid ink
     B:-paste ink
     C:-solvent based ink
     D:-heat set ink
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Correct Answer: - Option-A
Question67:-The colour difference equation is expressed as
     A:-\Delta E = (1 - y) (1 - m) (1 - C)
     B:-\Delta E = [(\Delta L)^{(2)} + (\Delta a)^{(2)} + (\Delta b)^{(2)}]^{(1/2)}
     C:-\Delta E = -1.7\log [1-a(1-10^{-0.6D}(3))]^{(1/2)}
     D:-\Delta E = C^* sample - C^* standard
     Correct Answer:- Option-B
Question68:-The reference colour model of a colour management system is based on
     A:-Pantone
     B:-CIELAB
     C:-HSB
     D:-CMYK
     Correct Answer:- Option-B
Question69:-A gear which has its teeth cut at an angle to the axis of the shaft
     A:-Pawl and Rachet
     B:-Helical
     C:-Spur
     D:-Bevel
     Correct Answer:- Option-B
Question70:-Carousel screen printing machines are based upon
     A:-Cylinder bed principle
     B:-Stationery bed
     C:-Oblique motion
     D:-Rotational principle
     Correct Answer:- Option-D
Question71:-If A = [[1,3,4],[2,6,x],[1,0,1]] is a singular matrix, then x is equal to
     A:-2
     B:-8
     C:-- 2
     D:-4
     Correct Answer:- Option-B
Question 72:-If A, B, C are non singular matrices of the same order then (ABC)^{(-1)} =
     A:-`A^(-1)B^(-1)C^(-1)`
     B:-`B^(-1)A^(-1)C^(-1)`
     C:-C^{-1}B^{-1}A^{-1}
     D:-`C^(-1)A^(-1)B^(-1)`
     Correct Answer:- Option-C
Question 73:-Solutions of the system of equations 3x + y + 2z = 3, 2x - 3y - z = -3, x + 2y + z = 4 are
     A:-x = 1 y = 2 z = -1
     B:-x = 2, y = 3, z = 1
     C:-x = 1, y = 2, z = 3
     D:-x = 1, y = 4, z = 0
     Correct Answer: - Option-A
Question 74:- The term independent of x in the expansion of (x^2)+1/x (6) is
     A:-0
     B:-12
     C:-10
     D:-15
     Correct Answer:- Option-D
Question75:-If A + B = 45^{\circ}, then (1 + tanA) (1 + tanB) is equal to``
     A:-2
     B:-1
     C:-4
     D:-5
     Correct Answer: - Option-A
Question 76:- Equation to the line passing through the point (- 3, 2) and perpendicular to the line
4x + 2y + 5 = 0 is
     A:-x - 3y + 2 = 0
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B:-x - 2y + 7 = 0
     C:-x + y = 0
     D:-x - y = 0
     Correct Answer:- Option-B
Question 77:- The minimum value of the function f(x) = 3x^{4} - 2x^{3} - 6x^{2} + 1 in the interval (0, 2) is
     A:-1
     B:-4
     C:-- 1
     D:-2
     Correct Answer:- Option-D
Question78:-If x^(2) + 2xy + y^(2)=0, then dy/dx is equal to
     A:-- 2
     B:-x + 2y
     C:-- 1
     D:-2x + 2y
     Correct Answer:- Option-C
Question79:-`int`x(logx) dx is equal to
     A:-\log x (x^{(2)})/(2) + x^{(2)}/4 + C, C is constant
     B:-logx (x^{(2)})/(2)-x^{(2)}/4+C, C is constant
     C:-logx (x^{(2)})/(2)-x^{(3)}/4+C , C is constant
     D:-logx (x^{(3)})/(2)-x^{(2)}/4+C, C is constant
     Correct Answer:- Option-B
Question80:-Solution of the differential equation \sec^2(2)x \tan y dx + \sec^2(2)y \tan x dy = 0 is of the form
     A:-tanx tany = c
     B:-secx tany = c
     C:-cotx\ coty = c
     D:-secy tanx = c
     Correct Answer: - Option-A
Question81:-The type of cement suitable for massive constructions like dams is
     A:-acid resistant cement
     B:-low heat cement
     C:-sulphur resistant cement
     D:-ordinary Portland cement
     Correct Answer:- Option-B
Question82:-The type of rubble masonry in which prismatic shaped stones are used is
     A:-Random rubble masonry
     B:-Polygonal masonry
     C:-Ashlar masonry
     D:-Dry rubble masonry
     Correct Answer:- Option-C
Question83:-The instrument used for measuring distance is
     A:-electronic theodolite
     B:-stereoscope
     C:-wye level
     D:-distomat
     Correct Answer:- Option-D
Question84:-Which among the following is the best suited foundation for a building if the foundation covers more than 50 %
of the area of the building and if the soil is weak
     A:-Spread foundation
     B:-Raft foundation
     C:-Combined footing
     D:-Column footing
     Correct Answer:- Option-B
Question85:-Optical square is the instrument used for
     A:-setting 90°
     B:-ranging of line
     C:-leveling
     D:-finding magnetic north
     Correct Answer: - Option-A
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Question86:-The valve(s) closed during compression stroke of an IC engine is/are A:-Inlet valve B:-Exhaust valve C:-Both inlet and exhaust valve D:-None of the above Correct Answer:- Option-C Question87:-The cooling tower in a steam thermal power plant is a device for A:-Condensing steam into water B:-Cooling exhaust gas coming out of a boiler C:-Reducing temperature of superheated steam D:-Reducing temperature of cooling water used in a condenser Correct Answer:- Option-D Question88:-The role of a moderator in a nuclear power plant is A:-To absorb neutrons fully B:-To control speed of neutrons C:-Both 1 and 2 above depending on the need D:-None of the above Correct Answer:- Option-B Question89:-The role of a surge tank in a hydroelectric power plant is A:-To absorb sudden rises of pressure by storing water B:-To store extra water during a brief drop of pressure C:-Both 1 and 2 above D:-To reduce the speed of the turbine when the level of dam is high Correct Answer:- Option-C Question90:-The following system in automobile diverts the power at right angles towards the driving wheels A:-Torque tube B:-Transfer case C:-Final drive D:-Differential Correct Answer:- Option-C Question91:-In a series RL circuit excited by a voltage v = `V (m)sinOmegat` A:-current lags the applied voltage B:-current leads the applied voltage C:-current is in phase with the applied voltage D:-voltage across L and R are equal Correct Answer: - Option-A Question92:-In a parallel RC electric circuit \_\_\_\_\_\_ is same for each element. A:-current B:-voltage C:-power D:-none of the above Correct Answer:- Option-B Question93:-Across the surface of a charged conductor, the electric A:-field is continuous B:-potential is continuous C:-field is discontinuous D:-none of the above Correct Answer:- Option-C Question94:-The unit of electric energy is A:-ampere B:-voltage C:-watt D:-watthour Correct Answer:- Option-D Question95:-An alternating current source having voltage E = 220 sin (`omegat+Pi`/2) in an ac circuit . If the current draws from the circuit is  $I = 20 \sin (\text{`omegat-Pi'}/2)$ , the impedance of the circuit is Α:-11Ω B:-15.6Ω C:-30.8Ω

D:-none of the above

Correct Answer: - Option-A

Question96:-Which one of the following is a direct band gap semiconductor used to fabricate light emitting diodes?

A:-Germanium

B:-Silicon

C:-Gallium Arsenide

D:-Gold

Correct Answer:- Option-C

Question97:-In a bridge rectifier circuit without filter, the maximum voltage across the secondary of the transformer is 18 volt. What is the maximum reverse voltage that appears across a diode in the non-conducting state during the rectification process?

A:-0 volt

B:-18 volt

C:-9 volt

D:-36 volt

Correct Answer:- Option-B

Question 98:-Which of the following is a universal gate?

A:-NAND gate

B:-OR gate

C:-NOT gate

D:-XOR gate

Correct Answer:- Option-A

Question99:-What is the multiple access technique used in IS-95 digital cellular phone standard?

A:-SDMA

B:-CDMA

C:-TDMA

D:-FDMA

Correct Answer:- Option-B

Question100:-What is the size of RAM is 8051 micro controller?

A:-32 bytes

B:-64 bytes

C:-8 bytes

D:-128 bytes

Correct Answer:- Option-D